

**Svastika Mansion**

*Front view ]*

# **An Encyclopaedia of Hindu Architecture**



**Manasara Series No.VII**

# **An Encyclopaedia of Hindu Architecture**

**Prasanna Kumar Acharya**

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**‘ What the learned world demand of us in India is to be quite certain of our data, to place the monumental record before them exactly as it now exists, and to interpret it faithfully and literally.**



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## FOREWORD

**THIS** is the seventh and the last volume of the *Mānasāra* series so far as the present writer is concerned. A few more volumes are, however, required to complete the work. Those new volumes will have to deal with the practical conclusions and workable plans and designs. This remaining work will involve an additional expenditure and an engineering study and draughtsmen's survey, estimate, calculations and comparisons with the few extant structures referred to in the writer's sixth volume, the *Hindu Architecture in India and Abroad*. In fulfilment of the fateful prediction of the late Professor E. J. Rapson of Cambridge University, the whole of the official career of the present writer commencing from the eventful year of 1914 has been fully occupied in preparing and seeing through press some 5,000 pages of these seven volumes. As the decree of fate would have it the war of 1914-18 caused from the very beginning of this task all possible interruption, risk and inconvenience while the work was carried out in London, Oxford, Cambridge, and Leyden. The difficult Indian conditions presented the familiar dilemma either to give up the self-imposed task altogether as is usually done by us after securing a degree and an appointment to a permanent post, or to carry it through, without much encouragement and assistance from any quarter, shouldering in addition to the peculiar duties of an occasionally unfortunate Professor of an Indian University the heavy burden of research. The unusual exigencies of the reconstructed Allahabad University demanded of the writer preparation and delivery of lectures to B. A., M. A., and Research classes up to 30 times per week and never less than 18, and also to do the departmental administration, and the routine work of various committees and examinations.

Contrary to the Sadler Committee's policy recommended for the new type of Indian Universities research activities even for the professors of the highest rank became practically of no importance, the teaching and social activities, as in schools and colleges, being much better appreciated by the authorities. Thus for instance our autonomous University considered it a useless waste of public funds to include a few pages in its annual report in order to give publicity to the mere titles of papers and books written and published by their teachers. Our non-interfering Government authorities also ceased to take any notice of their own servants who were sent on 'foreign service,' or rather banished to the universities.

The great educationist Governor, late Sir Harcourt Butler, sanctioned the cost of publication of these volumes to be advanced from the public funds before the delegation of the writer to the Allahabad University. But he left to Sir Claude de la Fosse, who was the first Vice-Chancellor of the reconstructed Allahabad University for a few months, to settle the terms of the publications including the author's royalty and reward. Sir Harcourt was sorry to learn of the changes which had taken place since his retirement from India and was 'shocked' when he was told in London in 1933 that an Indian successor of Sir Claude, as the Head of the Education Department of the Government, actually questioned in an official correspondence 'the public importance of printing Indian Architectural researches.'

The commitment of his predecessor had, however, to be carried out, and the Government, at the suggestion of again an Indian Adviser to the Governor, have since decided that after the realization of the full sum of money advanced by the Government for the cost of printing and publishing through the Oxford University Press, the further sale-proceeds, if there be any, will go to the successors of the writer. This is certainly a business arrangement. But the question of profits was not unfortunately considered when the first five volumes were published, for, the first two volumes published in 1927 actually gave a small profit to the Government of Rs.300 to Rs.400 despite the fact that only 250 copies were then published for circulation among scholars and that the prices of those volumes were fixed not as a business proposition, but merely to realize the cost of publication.

Naturally under such circumstances one would not feel encouraged to put in further labour and incur enormous expenditure, which are needed for the preparation of the remaining volumes and completion of the series. And there is not much hope either that the Governments and the various corporations, municipal boards, and other authorities who sanction the plan of a private building or erect a public structure will interest themselves in introducing an Indian policy in architecture until the new order following the present devastating war comes into being and until the new nations are able to rebuild and repair the rackless destruction. In the pre-war and peaceful times, however, facilities were freely provided by the State,

especially in the big European and American cities like London, Leyden, Paris, Berlin, Rome, Washington, New York, etc., to hold extramural evening classes and deliver popular lectures on architecture. Cities like Milan used to hold perpetual exhibition of model houses in order to educate the public in the construction of suitable dwellings. Perhaps a time will come even in countries like India, when it may be considered barbarous to question 'the public importance of architectural researches.' The common sense of civilized and progressive peoples has recognized that residential buildings are more important in some respects than even food and clothes. It is well known that among the amenities of life, houses afford in a large degree not only comfort and convenience but also health and longevity of life, safety, and security. Nomads are not considered civilized; they are not attached to any locality; they have no fixed hearth and home; they are not inclined to spend their fortune in erecting dignified edifices, everlasting ancestral residences, memorials, monuments, temples, churches, mosques, mausoleums, towers of silence, monasteries and pagodas. The art and culture of a people are reflected and preserved in such monuments. They sustain and stimulate national pride. Thus the architectural structures differ in various countries to suit their economic and climatic conditions, weather and soil, taste and aspiration, and material, moral and spiritual progress. It is, therefore, necessary to settle the architectural policy of each country in its own way. For India no better authority containing the experience of generations and experiments of centuries will ever be available than what is revealed by the *Mānasāra* series.

Apart from supplying cultural and historical information these volumes contain a key which when understood may help the tackling of Indian housing problems. It has been shewn and recognized by discerning authorities that whatever elements have been introduced to India by the Persians, Moghals, Pathans, and the Europeans, have failed to suit the Indian climatic and soil conditions. Neither the desert houses of Arabia nor the rain-coats and the snow covers of European countries can ever suit the peculiar conditions of India. Experience of generations and experiments of centuries are contained in our *Vāstu-śāstras* (science of architecture). Like the Indian dietary of predominantly vegetarian dishes and Indian clothes of loose types,



Indian houses of our Śāstra (scientific) styles are naturally more suitable for us. A wide dissemination of an accurate knowledge of true Indian architecture as revealed for the first time in these volumes must be the first step of the housing reform in India.

The present volume is a revised and enlarged edition of the writer's *Dictionary of Hindu Architecture* which was published in 1927, without any plates. Its change of title to *An Encyclopaedia of Hindu Architecture* was originally suggested to the London University and missed by several learned scholars. A respected one<sup>1</sup> commented in his review of the *Dictionary* on this point very strongly : 'The *Dictionary* is a book which is so well done that it appears to be no exaggeration to say that for many decades it cannot be improved upon unless, of course, the South reveals to us more hidden treasures. If there is anything to object to, it is the title of the book, which does less than justice to it. "Encyclopaedia" would be a fitter title. The term "Dictionary" is associated in our minds with word-meanings, while Dr. Acharya's work is very much more than "word-meaning." Each term is followed by its meanings, mostly technical, an exhaustive account of the subject, and references to standard works of a wide range of literature. Thus, it will be seen, the work deserves a better title than "Dictionary." In fact Dr. Acharya himself suggested to the London University the compiling of "An Encyclopaedia of Hindu Architecture," and it appears to have been a mere freak of fortune that when the University decided to entrust the learned Doctor with the work of compiling, they chose the term "Dictionary." They appear to have been led to do this by the nature of the usual run of work done by modern scholars who in many cases have the unhappy knack of "shirking work"; but in being led away by the prejudice, the University were unfair to their *alumnus*, who has, by this work, more than justified the title that he had himself suggested.

. . . It is a matter of special gratification to us of the Allahabad University that we have at the head of our Sanskrit Department a scholar capable of doing work which, as a monument of industry and patience, compares favourably with the best of that class of scholarly work which has hitherto been regarded as *German*.<sup>2</sup>

<sup>1</sup> Mahāmahopādhyāya Dr. Sir Ganganatha Jha, *Indian Review*, March, 1928.

<sup>2</sup> For similar comments by several other Reviewers, please see the concluding appendix of this volume and also pp. 1A to 11A of the writer's *Architecture of Mānasāra* (Volume IV of the *Mānasāra* Series).

The distinguished artist, Dr. Abanindra Nath Tagore, C.I.E., observes also that the *Dictionary* is 'in the nature of an Encyclopaedia embracing all the existing treatises on Indian art. He (the *author*) has herein presented before us all the information that so long lay hidden and scattered all over the world . . . it may be appropriately called the *Mahābhārata* of the literature on Indian art, for, in it we find all that there is to know about Indian art. . . . Hitherto it has been extremely difficult to be able to read all the connected literature that is to be found in libraries whether in India or outside. Everyone of us does not know the language in which the treatises are written. Moreover, most of the original texts are preserved in distant lands. In the circumstances, a volume of this nature, written in English and containing as perfect a compendium as is possible, of all the existing treatises on art, came to be a necessity, not only for us but for foreign artists as well. . . . I cannot adequately express the extent to which I shall be able to make use of it . . . and the profit which my pupils will derive from it.'<sup>1</sup>

'Students of Indian architecture should be grateful to him (*author*) for accomplishing with such thoroughness a task which has been long overdue, and which must have entailed a tremendous amount of patient and often disinteresting work, in a number of different languages. The *Dictionary of Hindu Architecture* contains all the architectural terms used in the *Mānasāra* and in the known *Vāstu-sāstras*, published inscriptions and other archaeological records, with full references and explanations.'<sup>2</sup>

'Professor Acharya's *Dictionary of Hindu Architecture* is a monumental work, the first of its kind. It deals with three thousand words relating to architecture and sculpture and cognate arts. Under each term is brought together all the necessary information in the form of a short article illustrated with copious quotations from the ancient printed books, as well as manuscripts, the general literature and the archaeological records. And this has been done with a thoroughness and accuracy which are the author's own. Full quotations for bringing out each and every shade of the meaning of a word are

<sup>1</sup> Translated by Mr. B. N. Lahiri, M.A., I.P., from the *Pravāsi*, April, 1928.

<sup>2</sup> *The Times Literary Supplement*, May 31, 1928.

given. In effect the *Dictionary* becomes more of an Encyclopaedia rather than a dictionary.<sup>1</sup>

In consideration of such comments and in view of the fact that illustrative plates containing measured drawings and photographs have been added, the Government and the Oxford University Press have agreed to the present title. But 'the freak of fortune' truly designated by Sir Ganganatha has continued to the very end in other respects as referred to in the opening paragraphs and mentioned later on.

The prediction that 'for many decades it cannot be improved upon' has also proved literally true. 'No hidden treasures' have been revealed in any quarter. All the new publications including all archaeological explorations and reports which came out between 1928 and 1943 have been closely searched. The very extensive volumes, reports, and explorations relating to Central Asia which have been largely due to Sir Aurel Stein, as well as the voluminous publications of the Dutch, the French and lately of the Indian scholars relating to the Far East and Insulindia have also been patiently gone through.<sup>2</sup> But not many new 'terms' have been discovered. The new terms added in this volume will be hardly one or two per cent. of the original list. But a number of new 'articles' under the old and the new terms have been added. Articles like the playhouse (under RANGA) and Svastika symbol, etc., contain all information which is at present available. Articles on fine arts (under KALĀ) and Indo-Persian Architecture, and Maya Architecture of Central America, etc., are also new.<sup>3</sup>

Thus although the matter has largely increased, Lt.-Col. D. W. Crichton decided to reduce the unwieldy bulk of the volume by the device of smaller types, larger pages, and closer printing, which, it is hoped, will not cause any inconvenience to the readers. Colonel Crichton and Mr. M. G. Shome, his successor, as the Superintendent of Government Press, have endeavoured to produce a faultless volume comparable with the best of European publications.

<sup>1</sup> *The Pioneer*, February 13, 1928.

<sup>2</sup> See further reference to these works under "Sources" in the Preface which follows this Foreword (pp. xvii-xviii) and also the Bibliography, pp. 679-84.

<sup>3</sup> Another additional and very expensive effort, which is not directly concerned with the present volume, has been made in erecting a residential house for a demonstration, the result of which is elaborated in the Preface of Volume VI (*Hindu Architecture in India and Abroad*).

The original plan and scope as well as the ideal and general method followed in the *Dictionary*<sup>1</sup> have been retained in this *Encyclopaedia* also.<sup>2</sup>

What remains to be added refers to further instances of the 'freak of fortune.' Under the war conditions of 1914-18 the work was commenced and under the present devastating war conditions it is completed. Among various other disappointments it is painful to recall that in April, 1939, Lt.-Col. D. W. Crighton took to England about 250 pages manuscripts of the present volume and after the declaration of the war in the fateful month of September, the Colonel wrote that he would send back the manuscripts together with his suggestions for printing. His suggestions were received and have been followed but the original manuscripts never came back. They had to be prepared again with all the annoyance and labour involved in such a process. Some of the new entries and additions and alterations made in the missing pages during the past twelve years may have been, however, lost altogether. Those who work along this line may share the writer's disappointment and will recognize the fact that it is hardly possible for a writer to re-write an article in the same spirit, with the same fulness and satisfaction as at the first inspiration.

Another unfortunate incident alluded to in the Preface refers to the eye-trouble which started as the result of a very close examination and decipherment for several years of a huge quantity of very badly preserved old manuscripts on 'Śilpa-sāstras written in five different scripts, and of some 50,000 lines of inscriptions.' Over and above this the eyes were severely exercised by the reading of three proofs of some 5,000 pages of these seven volumes, of which not only every word but also every letter and every line thereof had to be minutely scrutinized at least three times each. All this strain for the past thirty years aggravated the ailment to such an extent that the proofs of this last volume had to be read, despite medical advice, with one eye only, the other being unserviceable and requiring a risky and expensive operation which had to be postponed with a view to completing this work.

See pp. x-xii.

<sup>2</sup> For details, see pp. xx-xxii.

## FOREWORD

I take this occasion to record my most respectful thanks to the Government of the United Provinces for generously advancing the cost of publication of all the seven volumes. My respectful acknowledgments are also due to the Government of India, especially to the Department of Archaeology whose Directors General and Provincial Superintendents very generously supplied all the necessary photographs of the extant monuments and reprints from the Government publications. I also take this opportunity to express my indebtedness to the Governments of Siam, Netherlands (Java and Sumatra), and French Indo-China for supply of photographic views of Indian monuments in Insulindia and for permission to reprint certain plates from their official publications. Mr. S. C. Mukerjee, B.A., C.D., A.R.C., A.I.I.A., and his draughtsmen have supplied all the measured drawings and the plates for the illustration of certain objects of which no extant examples are available. These drawings and plates had to be prepared from the description found in the texts and required great skill in representation. Thus they have earned my gratitude.

Lt.-Col. D. W. Crighton, and, after his retirement, his successor, as the Superintendent of the Government Printing and Stationery, Mr. M. G. Shome, and their staff have endeavoured to produce a faultless volume. Colonel Crighton's plan and arrangement of the matter has been strictly followed. In his great wisdom he cast the new types for the last two volumes of the series and stocked the required amount of paper excepting those for plates before the war of 1939 was declared. I shall always remain grateful to Colonel Crighton, Mr. Shome and their staff for all they have done to bring out these volumes and to mitigate my drudgery for more than a quarter of a century during which these volumes passed through the Press.

My thanks are due to Mr. M. S. Sharma, M.A., L.T., who assisted me substantially in preparing the Index of the modern architectural terms as translated in the body of the work together with their Sanskrit equivalents.

I am also thankful to Mr. M. G. Nayar, Senior Reader of the Government Press, for arranging the plates and the final revision of the last proof.

P. K. ACHARYA.

ALLAHABAD UNIVERSITY :

April, 1944-46.

## PREFACE TO THE FIRST EDITION

*Origin and scope of the work*—This Dictionary (encyclopaedia) owes its name to the University of London.<sup>1</sup> A glossary of the architectural terms used in the *Mānasāra*, the standard work on Hindu architecture, was prepared for my private use when I found it indispensable, after struggling for two and a half years to edit for the first time and translate into English a text, which is written in five different scripts,<sup>2</sup> possesses eleven badly preserved manuscripts, has undergone five recensions, and comprises more than 10,000 lines of a language rightly remarked by Dr. Bühler as the ‘most barbarous Sanskrit.’<sup>3</sup> In this connexion there arose an occasion for me to express to the University the opinion that an encyclopaedia of Hindu architecture was badly needed. Architectural expressions appear throughout the whole field of general Sanskrit literature and epigraphical records, as well as in the extensive special branch of literature known as *Vāstu-sāstras*, more familiarly called *Silpa-sāstras*. Existing dictionaries, in Sanskrit, English or any other language, do not elucidate architectural expressions; and the texts of the *Vāstu-sāstras* have been waiting for hundreds of years to be unearthed from manuscripts which are quite inaccessible without the guidance of a special dictionary that would also be instrumental in bringing to light many new things hitherto left unexplained in inscriptions and general literature. The University selected me as the person most immediately concerned and entrusted me with the task, suggesting that I should ‘make a full “dictionary” of all architectural terms used in the *Mānasāra*, with explanations in English, and illustrative quotations from cognate literature where available for the purpose.’

Thus the terms included in this encyclopaedia are primarily those found in the *Mānasāra*. But all the new architectural terms of

<sup>1</sup> It has developed out of a Thesis, which was accepted by the University for the D. Lit. degree. See the Foreword for the change of title to ‘Encyclopaedia.’

<sup>2</sup> Grantha, Tamil, Telugu, Malayalam, and Nagari.

<sup>3</sup> *Ep. Ind.*, Vol. I, p. 377; compare also Sir R. G. Bhandarkar, *Ind. Ant.*, Vol. XII, pp. 140, 141.

any importance discovered in all the known architectural treatises, epigraphical documents, and general literature have also been added. I should estimate the new terms at about one-fourth of the total, numbering approximately three thousand.<sup>1</sup> No record has, however, been kept of the extent of the architectural manuscripts or the general literature searched, but some 50,000 pages of archaeological documents have been gone through almost line by line.

*Extent of architectural terms comprehended*—In the *Vāstu-sāstras* architecture is taken in its broadest sense and implies what is built or constructed in lasting materials and with a design and an ornamental finis. Thus, in the first place, it denotes all sorts of buildings, religious, residential and military, and their auxiliary members and component mouldings. Secondly, it implies town-planning; laying out gardens; constructing market places; making roads, bridges, gates; digging wells, tanks, trenches, drains, sewers, moats; building enclosure walls, embankments, dams, railings, *ghāts*, flights of steps for hills, ladders, etc. Thirdly, it denotes articles of house furniture, such as bedsteads, couches, tables, chairs, thrones, fans, wardrobes, clocks, baskets, conveyances, cages, nests, mills, etc.

Architecture also implies sculpture, and deals with the making of phalli, idols of deities, statues of sages, images of animals and birds. It includes the making of garments and ornaments, etc.

Architecture is also concerned with such preliminary matters as the selection of site, testing of soil, planning, designing, finding out cardinal points by means of a gnomon, dialling; and astronomical and astrological calculations.

These and similar matters are expressed by technical names which are to be understood as architectural terms for the purpose of this dictionary (encyclopaedia).

*Principal sources and arrangement of materials*—The sources drawn upon in this compilation may be classified under two divisions, namely, literary and archaeological. The former includes all the known *Vāstu-sāstras*, mostly in manuscript, which are avowedly architectural treatises, such as the *Mānasāra*, etc.; architectural

<sup>1</sup> See the Foreword for a reference to the further additional terms discovered since 1928 and incorporated in this volume.

portions of the *Āgamas*, and the *Purāṇas*, cognate portions of the Vedic and classical literature, such as the *Bṛāhmaṇas*, the *Sūtras*, the Epics, *Kāvya*s, dramas, etc. The archaeological records comprise all the inscriptions and other cognate matters published in the following series : *Epigraphia Indica* (first 13 volumes) ; *Indian Antiquary* (first 44 volumes) ; *Corpus Inscriptionum Indicarum* (2 volumes) ; *Epigraphia Carnatica* (12 volumes, in 15 parts) ; *South Indian Inscriptions* of Dr. E. Hultzsch, late Rai Bahadur V. Venkayya, and Rao Sahib H. Kṛishna Śāstri (3 volumes, in 8 parts) ; General Sir A. Cunningham's *Archaeological Survey Reports* (23 volumes) ; *Archaeological Survey*, New Imperial Series (Vols. IV, XI, XII, XVIII, XXI, XXIII, XXIV, XXXIII, XXXIV) ; and *Mysore Archaeological Survey Reports* (Vols. I, II, III), [Serindia, by Sir Aurel Stein ; Report on Archaeological Tour with Bunar Field Force (1900), by Stein ; Ancient Khotan (Vols. I, II), by Stein, Ville de Khotan, by Remusat ; L'Art de Gandhara, by M. Foucher ; Notes Chinoise, by M. S. Levi ; Fa-hien's Travels, by Legge ; Asiatic Researches (Vols. I—XIV) ; Marco Polo (Vols. I, II), by Yule ; Ancient Colonies in the Far East, by R. C. Mazumdar ; History of Siam, by Wood ; History of Burma, by Phare ; Inventaire Descriptif des Monuments Chams de L'Annam (Vols. I, II), by M. H. Parmentier ; Cambodge (Vols. I, II, III), by E. Aymonier ; Le Cambodge, by M. L. Delaparte ; Java and Her Neighbours, by A. S. Walcott ; De Sutrāntraasche Period der Javansche Geschiedenis (1922), by Krom ; Bijdragen tot-de Taal-Land en Volken-Kunde van Nederlandsche Indie (1918) ; Buddhist Records, translated by Bill ; History of Art in Persia, by Perrot and Chipicz ; Etudes Iraniennes, by Darmesteter ; *Scriptores rerum Alexandri Magni*, by C. Müller ; Architectural Remains : Anuradhapur (Ceylon), by Smitter ; etc.<sup>1</sup>].

Illustrative quotations from these sources are, to speak very generally, arranged in the order in which they are mentioned above. Illustrations from other sources of smaller extent have been given where they seemed most suitable.

*Appendices*—A sketch of the important Sanskrit treatises on architecture is given in Appendix I. In Appendix II is given an

<sup>1</sup> See further details under Bibliography.



alphabetical list of the historical architects mentioned in the archaeological records, together with short notes on their works and dates, where available. This list does not include those names which are casually mentioned without a reference to their works in the general literature, *Purānas*, *Āgamas*, and in the *Silpa-sāstras*.

*Ideal and general method*—Dr. F. W. Thomas was the first to suggest the idea of compiling such an encyclopaedia long before I felt the necessity of the glossary mentioned above. In carrying out Dr. Thomas's kind advice it seemed to me that the most natural method was the one suggested by Dr. Burgess (*Ind. Ant.*, Vol. XIV, pp. 319–20), for collecting materials for the ancient Geography of India by indexing separately all the geographical words occurring in the archaeological and literary documents. Dr. Fleet illustrated this principle by making a topographical list of such words found in the *Bṛihat-saṁhitā* (*Ind. Ant.*, Vol. XXII, p. 169). This was followed by a similar list of words from the *Bhāgavata-Purāna*, by Revd. J. E. Abbott (*Ind. Ant.*, Vol. XXVIII, p. 1, f.). There such list-making stopped. It would have been much easier for me if I could have made use of any such list of architectural terms from any of the documents consulted.<sup>1</sup>

Professor L. D. Barnett, M.A., LITT.D., suggested that I should take Dr. S. Sørensen's Index to the *names* in the *Mahābhārata* as my model. I have followed his method, as well as that of Professors Macdonell and Keith in the Vedic Index, so far as these indices are concerned in bringing together everything useful in the form of a short article.

Despite its bulk, Sørensen's Index mostly confines itself to the proper names contained in the *Mahābhārata*, and does not include any illustrative quotations. But I had to go much beyond a single work and consult an extensive field of literature, like the veteran workers of the Vedic Index of *names* and *subjects*, which, though it contains subjects in addition to proper names, has not, for obvious reasons, cited the original passages in text or translation in addition to giving references to them. In this respect I took the

<sup>1</sup> Dr. A. K. Coomaraswamy published a short list after the publication of my *Dictionary* referring to a few new terms from the Buddhist literature and the writer's *Indian Architecture* (1927).

largest Sanskrit work, the *St. Petersburg Dictionary*, as my ideal. But there, too, I had to differ from its immortal authors, Messrs. Böhtlingk and Roth, the fathers of the most useful Sanskrit researches, in two important points. First, the *St. Petersburg Dictionary* does not, for obvious reasons, give in all cases the full context of the passages quoted therein. For instance, from the illustrations like 'prāsādāruḍha' and 'prāsādāngana' (see *St. Pet. Dict.*, under PRĀSĀDA), it is difficult to see whether 'prāsāda' implies a temple, or a palace, or an ordinary residential building, or the assembly room and confessional hall of the Buddhist priesthood. In spite of some tremendous difficulties, I found it unavoidably necessary to cite long passages, in text or translation, or sometimes both, to illustrate the particular bearing of a term. 'Pīṭha,' for example, implies a seat, an altar, a platform, the pedestal of a column, the basement of a building, the plinth, the *yoni* part of the *liṅga*, etc.; these different shades of meanings cannot be made clear by such quotations as 'pīṭhopari' or 'pīṭham aṣṭāṅgulam.' The second point, by far the more significant, will further explain the need of long contexts. The *St. Petersburg Dictionary* refers only to well-known treatises which, though covering an extensive field, are yet easily accessible, and does not deal with manuscripts locked up and preserved as relics; nor has it anything to do with the epigraphical documents. My literary quotations are in most cases from a large number of works and manuscripts some of which are written in unfamiliar scripts and most of which are neither well known nor easily accessible; and the illustrations from all the published inscriptions and other archæological records, comprising approximately 50,000 pages, also necessitated the full context, partly for reasons stated above, and partly with a view to avoiding the possibility of distracting the attention of the reader and interfering with his grasping the argument rapidly.

*Alphabetical order and transliteration*—I could not avail myself of the express advice of Dr. Fleet in his highly appreciative Review of Dr. Sörenson's masterly Index (*Ind. Ant.*, Vol. XXXIV, p. 92) to arrange the words according to the European alphabetical order, which, in the opinion of the reviewer, has enhanced the value of the work. The European alphabet, being more imperfect than the Sanskrit alphabet with regard to the number of characters, especially

the vowels and the phonetical arrangement of them, seemed unsuitable for the terms which are included in this dictionary (encyclopedia.) In either of the alphabets, the transliterated Sanskrit words in some cases would be more or less confusing (e.g. Rishi, Riksha, Rintika, Ripu). But for the difficulties of making typewritten copies<sup>1</sup> before the dictionary went to press, I should have preferred to have Sanskrit words written in Sanskrit characters. Following the order of the Sanskrit alphabet, words like 'vaṁśa,' and 'śaṅku' are given not before 'vakra' and 'śaka' (as in the *St. Pet. Dict.*, *M. W. Dictionary* and the *Vedic Index*), but after 'vahana' and 'śashpa.' The *anusvāra* is derived from at least four nasal characters of the Sanskrit alphabet (ṅ, ñ, n, m). Logically the *anusvāra* should follow the order of the original letters : 'śaṅku' should be where 'śaṅku' would be placed ; but this is an extremely confusing arrangement (*see Apte's Dictionary*). There is no reason why 'śaṅku' should be read before 'śaka,' there is also no reason for its being placed after 'śashpa,' although one should be quite justified in doing so when he is following the order of a particular alphabet, and does not hesitate to read in another alphabet *e* after *d*, *i* after *h*, *o* after *n*, and *u* after *l*, or *l* after *k*, *h* after *g*, and so forth.

In transliteration I have followed the system of the Archaeological Survey of India. But I have not made any distinction between *e* and *é*, *o* and *ó*, simply because there is no such distinction in the Sanskrit language. These deviations from the trodden paths, which seem to be untenable, will not, it may be hoped, cause any inconvenience to readers.

*Acknowledgment*—Except in important cases which deserve special notice, the names of the scholars who have edited a particular inscription or written an article have not been added after the quotations. This need not offend anybody. I am sincerely grateful to the scholars to whom I owe the quotations. It seems, however, of little interest to know the name or names of the authors or editors of a particular passage, quoted occasionally a dozen times with full references to the article where it occurs. 'Vedi,'

<sup>1</sup> Four copies of the Thesis referred to above had to be submitted to the University of London.

for example, implying a throne, has a parallel instance in a passage quoted from an inscription. The passage is borrowed from the editors and my indebtedness is shown by the usual quotation marks, and I have stated that this passage occurs in 'Inscription from Nepal, no. 15, inscription of Jayadeva, verse 25, *Ind. Ant.*, Vol. IX, pp. 179, 182.' It, however, in no way enlightens the reader to know the names of the editors, Pandit Bhagwanlal Indraji and Dr. G. Bühler, C.I.E.

Again, a portion of a verse of the *Sāṅkhāyana Śrauta-sūtra* is quoted in the *St. Petersburg Dictionary*, but the full context is given in our encyclopaedia, and it is stated thus: *Sāṅkhāyana Śrauta-sūtra*, XVI, 18, 13 (*St. Pet. Dict.*). Beyond this, it seems unnecessary to add the names of Messrs. Böhtlingk and Roth. Lastly, in cases of quotations from general literature, the extent of which cannot be indicated even by an approximate number of books, it was impossible in some instances to mention the author's name. Compare, for example, a *Glossary of Grecian Architecture*, an anonymous work; and *Silpa-śāstra-sāra-saṁgrahaḥ Śivanārāyaṇātmajena prāchīna-granthebhyah saram uddhṛitya prakāśitaḥ—Silpa-śāstra-sāra-saṁgraha*, compiled by collecting essential portions of the ancient treatises by a son of Śivanārāyaṇa'; again, *Viśvakarma-jñāna*, corrected (śaṁśodhita) by Kṛishṇa-śaṅkara-śāstrī; the author, if there were a real one beyond the mythical Viśvakarman (Creator of the Universe), is not stated anywhere in the treatise itself.

*Need of showing the results achieved*—Although it would be presumptuous for anybody to say that the subject of a dictionary like this has been exhausted in a pioneer work, I might be permitted, in justice to myself, to add that all the known and knowable materials which were likely to be of any use for this encyclopaedia, have been closely consulted and utilized. Whether the results will justify the great labour involved will have to be left to the actual experiment of those who are in need of such a work.<sup>1</sup> But the

<sup>1</sup> See the 'Extracts from Opinions and Reviews,' at the end of this volume, also of the *Architecture of Mānasāra*, Volume IV (1934), by the writer, and 'What Others Think' in the writer's *Hindu Architecture in India and Abroad*, Appendix III, pp. 422-49.

tremendous difficulties of a compilation like this will perhaps be not fully brought home to all readers, because 'no one but those who have taken part in similar labours, can at all realize the amount of tedious toil, I might almost say drudgery, involved in doing everything singlehanded, collecting the quotations and verifying references and meanings, making indices and lists of words, sorting and sifting an ever-increasing store of materials, revising old work, arranging and re-arranging new, correcting and re-correcting, writing and re-writing, and interlineating "copy," till reams upon reams of paper have been filled; putting the eyesight, patience, and temper to a severe trial.'

*Aids and encouragement received*—My sincere obligations are due, to the Secretary of State for India in Council for all facilities and help which I had the privilege of receiving as a Government of India State scholar and which were needed by a pioneer in this most exacting branch of oriental researches, specially during the Great European War of 1914-18. I take this opportunity to offer my respectful thanks in particular to late Sir Austen Chamberlain, late Sir T. W. Arnold, C.I.E., and late Mr. N. C. Sen, O.B.E. Words fail me to express adequately my gratitude to Professor Dr. F. W. Thomas, C.I.E., the then Librarian of India Office, London. As stated above, I owe to him the inception of the idea and courage to undertake this task. He placed at my disposal all the materials in the India Office and procured for me most of the available manuscripts from different libraries in India and Europe. He facilitated my work in Holland. He arranged, through the appreciation and kindness of Sir John H. Marshall, C.I.E., D.LITT., the then Director General of Archaeology in India, the creation of a prize post for me directly under the Governor in Madras for the publication of this work; this arrangement, unfortunately, fell through owing to absence on leave of Sir John Marshall and retirement of Lord Pentland at the time when I went to take up this appointment. It was again through Dr. Thomas's introduction that Sir Claude de la Fosse, C.I.E., M.A., D.LITT., the first Vice-Chancellor of the reconstructed Allahabad University, became personally interested in this work and readily induced the great educationist Governor, Sir Harcourt Butler, to recommend to the Government of the United Provinces to advance the cost of its publication.

## **HINDU ARCHITECTURE**

I take this opportunity to express my respectful gratitude to Sir Harcourt Butler and his Government. And to Sir Claude I am further indebted for his scholarly sympathy, friendly advice, and constant encouragement. To those great lovers of oriental scholarship, Rai Rajeshwar Bali Sahib, O.B.E., the then Minister of Education; Kunwar Jagdish Prasad, C.I.E., O.B.E., I.C.S., the Education (then Chief) Secretary; and late Mr. A. H. Mackenzie, M.A., B.Sc., the Director of Public Instruction, I am in a debt of gratitude for further encouragement, which has kept up the energy and spirit needed in bringing out this dictionary, after working on it for the past twelve years.

For suggesting many improvements I am indebted to the veteran orientalist, Dr. L. D. Barnett, of British Museum, London, and late Professor E. J. Rapson, of Cambridge University, who examined the whole manuscript before it went to press. I am thankful to Professor J. Ph. Vogel, Ph.D., of Leiden University, for helping me with all necessary books during my stay there. To Mr. E. L. G. den Dooren de Jong and Miss Ch. L. Du Ry van Beest Holle of Zoological Laboratory, Leiden, I owe many friendly services in connexion with this work, but for which it would have been impossible for me to get on in Holland. To another talented lady friend, late Miss E. J. Beck, who took the trouble of putting in the diacritical marks to a duplicate typewritten copy of this dictionary, I owe, like many other Indian students, more obligations than I can adequately express.

Last but not least I am pleased to record my grateful thanks to Major W. C. Abel, M.B.E., V.D., lately the Superintendent of Government Press, Allahabad, and to his able successor, Mr. D. W. Crighton, and to their staff for their ever sympathetic and kind treatment towards me and their zealous and careful handling which was necessary in printing an encyclopaedia like this.

**P. K. ACHARYA.**

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**THE ORDER OF THE ROMAN CHARACTERS AND THE METHOD  
OF TRANSLITERATION ADOPTED**

a, ā ; i, ī ; u, ū ; ři, řī ; e, ai ; o, au ;  
k, kh ; g, gh ; ŋ ; ch, chh ; j, jh ; ñ ;  
č, čh ; đ, đh ; ŋ ; t, th ; d, dh ; n ;  
p, ph ; b, bh ; m ; y, r, l, v ;  
ś, sh, s ; h ; m̄ ; ḥ.





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# AN ENCYCLOPAEDIA OF HINDU ARCHITECTURE

## A

**AKSHA**—The base of a column, the eye, a die.

(1) The base of a column :

Athavākshaṁ (=adhishṭhānaṁ) navārṁśochchaṁ janma chaikena  
kārayet | (*Mānasāra*, xiv, 17. note.)

(2) The eye :

Aṣṣyāyāmaṁ tri-mātraṁ syād vistāraṁ chaika-mātrakam |  
Akshāyāmārḍha-mātraṁ svād vistāraṁ vuktito nyaset |

(*M.*, lx, 29-30)

(3) A die :

Akshaiḥ sphaṭika-saṁyuktaṁ tulā-bhājanam eva cha |

(*M.*, lxxviii, 28.)

(4) Referring to the window-like part of a *dolā* (swing, hammock, palanquin), and of a chariot :

Purataḥ pṛishṭhato madhye parva(darpa)ṇaṁ bhadrā-saṁyutam |  
Pārsvayor vā(dvā)raṇaṁ kuryāt tasyādho'kshaṁ susaṁyutam |

(*M.*, l, 165-166)

Tasyādhaḥ karṇanaṁ kuryād akshotsedhārdham eva cha |

(*M.*, xli, 51, see further context under **AKSHA-BHĀRA**.)

**See GAVĀKSHA**—*Cf. Mitāksharā* (ed. Cal. 1829) 146, 1 (*Pet. Dict.*) :

Akshaḥ pāda-stambhayor upari-nivishṭa-tulādhāra-paṭṭaḥ |

Akshāgra-kila |

Pushkarāksha (*see Pāṇini*, 5, 4, 76).

Dhārābhīr aksha-mātrādhīḥ (*Arjunasamāgama*, ed. Bopp, 8, 4.)

**AKSHA-BHĀRA**—A lower part of a chariot.

Tasyādho (below the pāda or pillar) karṇaṁ kuryād akshotsedhār-  
dham eva cha |

Tat-tad-dśe tu chhidraṁ syād aksha-bhāre rathāntakam |

Chhidre praveśayct kilam yuktyā cha paṭṭayojitam |

(*M.*, xlii, 51-53.)

## AKSHI-REKHĀ—The eye-lines.

Akshi-rekhāṁ samālikhya savye'kshi kṛishṇa-maṅgalam |

(M., LXX, 69.)

## AKSHI-SUTRA—The line of the eyes.

Mukhāyamaṁ tridhā bhavet |

Akshi-sūtrāvāśānaṁ cha tasyādhas tat-padāntakam |

Hikkā-sūtrād adho bāhu-dīrghaṁ ṛikshāṅgulaṁ bhavet |

(M., LXV, 12-13.)

## AGNI-DVĀRA—The door on the south-east.

Chatur-dikshu chatush-koṇe mahā-dvāraṁ prakalpayet |

Pūrva-dvāraṁ athaiśāne chāgni-dvāraṁ tu dakshiṇe |

Pitur-dvāraṁ tu tat-pratyag vāyau dvāraṁ tathottaram |

(M., IX, 292, 294-295.)

## AGRAHĀRA—A village inhabited by the Brāhmaṇas.

Viprair vidvadbhir ābhogyaṁ maṅgalaṁ cheti kīrtitāṁ |

Agrahāras tad evam uktaṁ viprendrāḥ Kāmikāgame ||

(Kāmikāgama, xx, 3.)

Agrahāraṁ vinānyeshu sthānyādishu vāstushu |

Prāg-ādishu chatur-dikshu vāyau īśe śivālayaḥ ||

(ibid., xxvi, 32.)

## NĪLAKAṆṬHA, 16, 3—(Pet. Dict.) :

Agrah brāhmaṇa-bhojanaṁ tad-arthaṁ hriyante rāja-dhanāt pṛithak  
kṛiyante te agrahārāḥ kshetrādayaḥ |

Chatur-bhuja (ibid ; comm. Mbh.) : Agrahāra=śāsana.

## AGHANA—Not solid, a hollow moulding, column or pillar.

Ghanañ-chāpy aghanañchaiva vinyāsam atha vakshyate |

(Vistārāyāma-śobhādi-pūrvavad-gopurāntakam) |

Yaṁ mānaṁ bahir anyena chūlikā-māna-sarṁmitam |

(M., xxxiii, 290-292, see also 293-309.)

## Referring to windows (or rather window-post) :

Tad-vistāra-ghanate sarvaṁ kuryād vai śilpi(a)-vit-tamaḥ |

Gopure kūṭa-koṣṭ(h)ādi-grīve pādāntare tathā |

Ghane vāpy aghane vāpi yathā vātāyanair-yutam | —(ibid., 592-594.)

Cf. Vistāraṁ cha dvi-mātraṁ syād agram ekāṅgulaṁ bhavet |

Ghanaṁ ekāṅgulaṁ chaiva | (M., LX, 17-18.)

## Referring to the image of a bull :

Ghanaṁ vāpy aghanaṁ vāpi kuryāttu śilpi(a)-vit-tamaḥ |

(M., LXII, 17.)

AGHANA-MĀNA (*see* GHANA)—Measurement by the interior of a structure.

Evam tat(d) ghana-mānam uktam aghanam vakshyate' dhunā ||  
 Vistārāyāma-bhaktiḥ syād uktavat(d)yuktito nyaset |  
 Dvi-tribhāga-viśāle tu āyatan tat prakalpayet |  
 Bhakti-tri-bhāgam ekāmsam bhitti-vistāram eva cha |  
 Śeṣam tad garbha geham tu madhya-bhāge tu veśanam |

(*M.*, XXXIII, 331-335.)

AṅKA(GA)ṆA (*see* PRĀṄGAṆA)—Same as Aṅgaṇa, a court, & courtyard.

Yathā madhye'nkanam kuryāt pañcha-bhāgena vistṛitam |

(*M.*, XXXIV, 143.)

Kalpa-drumasya purato bahir aṅkanam syāt | (*M.*, XLVIII, 72.)  
 Athātaḥ sampravakshye'ham aṅgaṇasya tu lakṣaṇam |  
 Aṅgaṇam dhvaja-yoniḥ syān mukhāyāmābhisaṃyutam ||  
 Pādūkānam bahir-bhāgam aṅgaṇam tat vidur budhāḥ |  
 Dhvajah sarvatra sampanna iti śāstra-nidarśanam |

(*Vastu-vidyā*, ed. Ganapati Śāstri, VI, 1-2.)

Madhye tu prāṅgaṇam kāryam viśālenaika-parṅktikam |  
 Ardha-parṅkti-vivṛidhya tu trimsat parṅkty antam ishyate |  
 Āyāme chaika-parṅkty ādi tri-guṇāntam viśālatā |  
 Evam brahmāṅgaṇam kāryam jala-pāta-yutam navā ||  
 Madhyamam chāṅgaṇa-sthānam maṇḍapena yutam tu vā ||  
 Prāḡ aṅgaṇam pradhānam syāt prāgavāgaṅgaṇam jvaraḥ |

(*Kāṃikāgama*, XXXV, 40, 41, 66, 131.)

Ujatāṅgaṇa-bhūmishu | —(*Raghuvaṃśa*, ed. Cal. I, 52, *Pet. Dict.*).  
 Vimānam haṃsa-yuktam etat tishthati te'ṅgaṇe |

(*Devimahātmya*, ed. Cal. 5, 50.)

Nṛipāṅgaṇa—(*Kāvyā chandrikā*, 166, 15 *ibid.*).

Nṛipāṅgaṇa—(dental n, *Bhartṛihari*, 2, 46, *ibid.*).

Mahārājāṅgaṇam śūrāḥ pravāsantu mahodayam |

(*Rāmāyaṇa*, II, 3, 19, *ibid.*)

Matsya-tīrthada sannidhānadali Lingaṅga bagitinda doḍḍa-asvāthada baḷige aṅgaṇa 12 māḍida sēvā—'Lingaṅga with devotion erected (a maṇḍapa of) 12 aṅgaṇas near the big asvattha tree in proximity to the Matsyatīrtha, on the bank of the Arkapūshkarini.' (*Ep. Carnat.*, Vol. IV, Edatore Taluq, no. 3, Roman text, p. 84, Transl., p. 52).



**ĀṄGA-DŪSHAṆA**—The defects of the limbs ; the penalties for a defective construction.

*Mānasāra*, Chap. LXIX, 1-73 :

The chapter is named *Āṅgadūshaṇa* in the colophon. The term would literally mean the defects of the limbs. The chapter opens with the proposal that the penalties on the master, the king, and the kingdom following a defective construction will be described :

Ālayādyaṅga-sarveshu hinādhikyaṁ bhaved yadi ।

Rāja-rāshṭrādi-karṭṛiṅgāṁ dosha-prāptim(-r)ihochyate (1-2).

There should not be, as stated, any defect in the width, height, plinth, lintel, pillar, eptablature, finial, dome, door, adytum, staircase, terrace, gate-house, pavilion, wall, etc. (3-10).

Cf. Tasmāt tu dosha-saṁprāpti(h) śilpidriṣṭi(r) nivārayet (11).

The illustrations, too, of penalties for defective construction are taken from the different architectural objects, such as door, staircase, pillar, wall, dome, spire, etc. Thus it is stated that if the altar (*vedikā*) be defective, the master would lose his eyesight (26) ; if the dome be larger or shorter, the people would suffer from poverty (29) ; if the pillars be larger or shorter, the race of the master would be exterminated (23), and so forth.

**ĀṄGULA**—A finger, a finger-breadth, a measure of about three-fourths of an inch ; one of some equal parts, into which an architectural or sculptural object is divided for proportional measurement.

(1) *Mānasāra*, Chap. II :

The definition of *paramāṇu* or atom :

Muninām nayanodvikshya(s) tat paramāṇur udāhṛitam (40).

Cf. *Bṛihat-Saṁhitā* (below).

(*Paramāṇu* or atom is the lowest measurement.)

The details of the *āṅgula*-measure (41-46) :

8 <i>Paramāṇu</i> (atoms)	= 1 <i>Ratha-dhūli</i> (car-dust),
8 Car dusts	= 1 <i>Vālāgra</i> (hair's end),
8 Hair's ends	= 1 <i>Likshā</i> (nit),
8 Nits	= 1 <i>Yūkā</i> (louse),
8 Lice	= 1 <i>Yava</i> (barley corn),
8 Barley corns	= 1 <i>Āṅgula</i> (finger).

Three kinds of *āṅgulas* are distinguished, the largest of which is equal to 8 *yavas*, the intermediate one 7 *yavas*, and the smallest one 6 *yavas* (47-48).

## Further details (49-53) :

12 Āṅgulas	= 1 Vitasti (span).
2 Spans or 24 āṅgulas	= 1 Kishku-hasta (smallest cubit).
25 Āṅgulas	= 1 Prājāpatya-hasta.
26 „	= 1 Dhanur-mushti-hasta.
27 „	= 1 Dhanur-graha-hasta.
4 Cubits	= 1 Dhanuḥ or daṇḍa (bow or rod).
8 Daṇḍas (rods)	= 1 Rajju (rope).

Direction is given with regard to the use of the cubits of different lengths and other measures (54-58) : conveyances and bedsteads, etc. are stated to be measured in the cubit of 24 āṅgulas, buildings in general (vimāna) in the cubit of 25 āṅgulas, the ground or land (vāstu) in the cubit of 26 āṅgulas, and the villages, etc. in the cubit of 27 āṅgulas. The cubit of 24 āṅgulas can, however, be employed, as stated in measuring all these objects.

Chap. LV :

Three kinds of the āṅgula-measure :

Mātrāṅgula-gataṁ proktaṁ āṅgulaṁ tri-vidham bhavet । (53).

The mānāṅgula is the standard measure ; it is equal to 8 barley corns :

Yava-tārāshṭa-mātraṁ syān mānāṅgulam iti smṛitam । (56).

The mātrāṅgula is the measure taken in the middle finger of the master :

Kartur dakṣhiṇa-hastasya madhyamāṅgula-madhyame ।

Parva-dīrghaṁ tan-nāhaṁ mātrāṅgulam udāhṛtam । (57-58).

The details of the deha-labdāṅgula are left out ; but this measure is frequently referred to :

Trayas-triṁśach chhatāntaṁ syād deha-labdāṅgulena vā । (64).

The deha-labdāṅgula is to be understood as the measure, which is equal to one of the equal parts, into which the whole height of a statue is divided for sculptural measurement. This alone should otherwise be called aṁśa (part) ; but the term (aṁśa) is indiscriminately used for all the three āṅgula-measures, as well as for the term mātra. Compare, for example, Chap. LXV :

Mūrdh(n)ādi-pāda-paryantaṁ tuṅga-mānaṁ praśasyate । (2).

Chatur-viṁśach-chhataṁ kṛtvā tathavāṁśena mānayet । (3).

Ushnīshāt keśa-paryantaṁ chatur-mātraṁ praśasyate । (4).

Ardhāṁśaṁ gala-mānaṁ syād vedāṁśaṁ gala-tuṅgakam । (6).

Sa yava-tryaṁśakam chaivānāmikāyāmam ishryate । (26).

Medhrāntam ūru-dīrghaṁ syāt sapta-viṁśāṅgulam bhavet । (9).

The deha-labdāṅgula is also called the bera- (idol) āṅgula and the līnga- (phallus) āṅgula, Chap. LXIV, 49-53 :

Aṁśakam mānam evoktam āṅgulair mānam uchryate ।

Yal-līnga-tuṅgaṁ saṁgrāhya chatur-viṁśach-chhatāntakam ।

Līngāṅgulam iti proktaṁ beraṁ tālavāśād api ।

Kṛtvā berāṅgulam proktaṁ mānāṅgulam ihochryate ।

Yava-tārāshṭa-mātraṁ syād devānām āṅgulam bhavet ।



5) *Brahmāṇḍa-Purāṇa*, Chap. vii (Vāyu-prokte pūrva-bhāge dvitīye anuṣaṅga-pāde) gives a curious origin of the aṅgula measure :

It is stated (in vv. 91-95) that people at first used to live in caves, mountains, rivers, etc. They began to build houses in order to protect themselves from cold and heat (śītoṣṇa-vāraṇāt). Then they built kṣeṭas (towns), puras (houses), grāmas (villages) and nagaras (cities). And to measure their length, breadth, and the intermediate distance between two settlements (sanniveśa) the people instinctively (yathā-jñānam) employed their own fingers. Thence forward the aṅgulas are used as standards of measurement.

Then follow the details of the aṅgula measurement (vv. 96-101) :

Jayāṅgula-pradeśāṁ trīṇ hastaḥ kishkuṁ dhanūṁśhi cha ।  
 Daśatvaṅgula-parvāṇi prādeśa itī saṁjñitāḥ ॥ (96).  
 Aṅuṣṭhasya pradeśīnyā vyāsa(h) prādeśa uchyate ।  
 Tāḥ smṛito madhyamayā gokarṇaś chāpyanāmayā ॥ (97).  
 Kaṇiṣṭhayā vitastis tu dvādaśāṅgula uchyate ।  
 Ratnī aṅgula-parvāṇi saṁkhyayā tvekavirṇsatiḥ ॥ (98).  
 Chatvāri-virṇsatiś chaiva hastaḥ syād aṅgulāni tu ।  
 Kishkuḥ smṛito dviratnis tu dvi-chatvāriṁśad aṅgulaḥ ॥ (99).  
 Chatur hasto dhanur daṇḍo nālikā yugam eva cha ।  
 Dhanuḥ sahasre dve tatra gavyūtis taiḥ kṛitā tadā ॥ (100).  
 Ashtau dhanuḥ sahasrāṇi yojanaṁ tair vibhāvitam ।  
 Etena jojanencha sanniveśās tataḥ kṛitāḥ ॥ (101).

(6) *Matsya-Purāṇa*, Chap. CCLVIII, vv. 17-19 :

Jālāntara-praviṣṭānāṁ bhānūnāṁ yad rajaḥ sphuṭam ।  
 Trasa-reṇuḥ sa vijñeyo vālāgram tair athāṣṭabhiḥ ॥ (17).  
 Tad-ashṭakena tu likhyātu yūkā likhyāṣṭakair matā ।  
 Javo yūkāṣṭakam tad-vad aṣṭabhis tais tad aṅgulam ॥ (18).  
 Svaktyāṅguli-mānena mukhaṁ syād dvādaśāṅgulam ।  
 Mukha-mānena kartavyā sarvāvayava-kalpanā ॥ (19).

(7) *Vāstu-vidyā*, ed. Ganapati Śāstri, 1, 3-5 f :

Tatrāḍau saṁpravakṣhyāmi sarveśāṁ māna-sādhanam ।  
 Mānenaivākhilāṁ loke vastu saṁsādhyate yataḥ ॥  
 Paramāṇuḥ kramād vṛiddho mānāṅgula itī smṛitah ।  
 Paramāṇur itī prokto yogināṁ dṛiṣṭi-gocharaḥ ॥  
 Paramāṇur aṣṭābhis trasa-reṇur itī smṛitah ।  
 Trasa-reṇuś cha romāgram likhā-yūkā-yavās tathā ॥

and so forth (see *Mānasāra*).

(8) *Bimbamāna*, MS. (British Museum 558, 5292), v. 9 :

Yad-bimba-pramāṇena mānāṅgula(m) vibhājite ।

Tena bimbasya mānaṁ tu tatra(m) āyamam ishyate ।

(9) *Suprabhedāgama*, *Paṭala*, xxx, vv. 1-9 :

Athātaḥ saṁpravakshyāmi āṅgulānāṁ tu lakṣhaṇam ।

Mānāṅgulaṁ tu prathamāṁ syāt mātrāṅgulam dvittiyakam ॥ (1)

Deha-labdha-pramāṇaṁ tu tritīyam āṅgulaṁ smṛitam ।

Yasmāt param aṇur nāsti paramāṇus tad uchyate ॥ (2)

Paramāṇur adhaś chaivāpi cha keśāgra eva cha ।

R(1)ikshā-yūkā-yavās tatra kramaśo'shṭa-guṇair matam :। (3).

Mānāṅgulam iti proktaṁ tato mātrāṅgulaṁ śṛiṇu ।

Āchārya-dakṣhiṇe haste madhyamāṅguli-madhyame ॥ (4).

Parva(m) mātrāṅgulaṁ jñeyam deha-labdhāṅgulaṁ śṛiṇu ।

Pratimāyās tathotsedhe tāla-gaṇyena bhājite ॥ (5).

Teshveṣāṁ bhāga-van-mānāṁ deha-labdhāṅgulaṁ smṛitam ।

The objects measured in the three kinds of angulas :

Prāsāda-maṇḍāpāṁś chaiva prakārān gopurān api ॥ (6).

Grāmādyā-kṣhetra-gaṇyeshu mānāṅgula-vidhānataḥ ।

Āchārya-dakṣhāṅgulibhir mite vyāsa-mitādhikāiḥ (sic) ॥ (7).

Kūrche pavitrake chaiva sruve srugbhir athānyakāiḥ ।

Yāge prayojitāntha mātrāṅguli-vidhiś charet ॥ (8).

Atha mānāṅgulair vāpi kārayed yāga-karmaṇi ।

Deha-labdhāṅgulenaiva pratimāṁ kārayed budhaḥ ॥ (9).

Then follow the technical names of the angulas (vv. 10-16) :

One āṅgula is called bindu, mokṣa.

Two āṅgulas are „ kalā (elsewhere it is the name of one āṅgula), kolaka, padma, akṣi, aśvini.

Three „ „ „ rudrākṣi, agni, guṇa, śūla (and) vidyā.

Four „ „ „ yuga (and) bhāga, veda, and turtya.

Five „ „ „ rudrānana, indriya, bhūta, and vāpa.

Six „ „ „ karmaṇ, aṅga, ayana, and rasa.

Seven „ „ „ pātāla, muni, dhātu, and abdhi.

Eight „ „ „ basu, lokśa, and mūrti.

Nine „ „ „ dvāra, sūtra, graha, and śakti.

Ten „ „ „ diś, nāḍi, āyudha, and prādurbhāva.

Twenty „ „ „ trishu (and) vishku.

Thirty „ „ „ gati.

Forty „ „ „ trijagat (?).

Fifty „ „ „ śakvari.

Sixty „ „ „ atīśakvari.

Seventy	aṅgulas	are called	yasṭi.
Eighty	„	„	„ atyasṭi.
Ninety	„	„	„ dhṛiti.
Hundred	„	„	„ atidhṛiti.

The cardinal numbers are described (vv. 17-20):

Ekam daśam śataṁ chaiva sahasram ayutaṁ punaḥ || (17).

Niyutaṁ prayutaṁ chaiva koṭim chaiva yathārbudam |

Bṛindaṁ kharvaṁ nikhvaraṁ cha śaṅkhaṁ padmaṁ ataḥ param || (18).

Samudra-madhyāntarākhyam aparaṁ tathā |

Parārdham evākhyātaṁ daśa-vṛitt(-ddh)yuttarottaram || (19).

Evam etāni choktāni saṁkhyā-sthānaṁ viṁśatiḥ |

Three kinds of the vitasi (span), which is equal to 12 aṅgulas, are distinguished by their technical names :

Tālaṁ yamaṁ tri-bhāgaṁ cha śaṭ-kalāś cha vitastakam || (20)

Śaṭ-kolakaṁ mukhaṁ chaiva dvādaśaṅgula-saṁjñakam |

Aṅgushṭha-tarjani-yuktaṁ prādeśam iti kirtitam || (21).

(Madhyamāṅgushṭha-samyuktaṁ tāla-mānam iti smṛitam |)

Aṅgushṭhānāmikā-yuktaṁ vitastir iti chochyate || (22).

Kaṇishṭhāṅgushṭhayor yuktaṁ go-karṇam iti saṁjñikam |

The correct reading of the last two lines should be :

Aṅgushṭhānāmikā-yuktaṁ go-karṇam iti saṁjñikam || (22).

Kaṇishṭhāṅgushṭhayor yuktaṁ(-tā) vitastir iti chochyate |

*Cf. Brahmāṇḍa-Purāṇa, I, VII, 97, 98.*

(See under GOKARNA and VITASTI.)

Prādeśaś cha vitastiś cha gokarṇaś cha ime trayaḥ || (23).

The two kinds of the measure by the fist :

Jajñādike prayoktavyāḥ prāsādādaḥ na māpayet |

Ratniḥ saṁvṛita-mushṭiḥ syād aratniḥ prasṛitāṅguliḥ || (24).

Different kinds of the hasta or cubit measures :

Kishkus cha prājāpatayaś cha dhanur-mushṭi-dhanu(r)grahau |

Aṅgulas tu chatur-viṁśat kishkur ityuchyate budhaiḥ || (25).

Pañcha-viṁśatibhiś chaiva prājāpatyam udāhṛitam |

Śaṭ-viṁśati-dhanur-mushṭiḥ sapta-viṁśad-dhanu(r)grahaḥ || (26).

The objects measured in these cubits :

Kishku-hastādi-chatvāri-mānāṅgula-vaśāt-tamaḥ (?) |

Ebhira hasta-pramāṇaiś tu prāsādādiṁ kārayet || (27).

Sayanam chāsanaṁ chaiva kishku-māna-vaśāt kuru |

Līngaṁ cha piṇḍikāṁ chaiva prāsādaṁ gopuraṁ tathā || (28).

Prākāra-maṇḍapaṁ chaiva prājāpatya-karṇa tu |

The higher measures :

Dhanu(r)grahaś chatushkaṁ yad daṇḍa-mānaṁ prakīrtitam || (29).

Sahasra-daṇḍa-mānena krośa-mātraṁ vidhiyate |

Gavyūtīr dvi-guṇaṁ jñeyaṁ tad-dhi(dvi)-guṇaṁ cha ghātakam || (30).

Ghātakasya chatushkaṁ tu yojanā parikīrtitā || (31).

(10) *Manu-Saṁhitā*, VIII, 271 (cf. under *Bṛihat-Saṁhitā* above) :

Nikshepyo'yomayaḥ śaṅkur jvalannasye daśāṅgulaḥ |

(11) *Rāmāyaṇa*, VI, 20, 22 : .

Na hyaviddharit ayor gātre babhūvāṅgulam antaram |

(12) Aratni, cubit. According to the *Sulvasūtra* of Baudhāyana (Fleet, *J.R.A.S.*, 1912, 231, 2), this measure is equal to 24 āṅgulas or finger-breadths. The *Satapatha-Bṛāhmaṇa* (x, 2, 1, 3) also mentions 24 āṅgulas or finger-breadths as a measure, but without reference to the aratni (see below), cf. Eggeling, *Sacred Books of the East*, 43, 300, n. 3.

(13) 'Prādeśa frequently occurs in the *Bṛāhmaṇas* (Vedic Index II, 152), (*Aitareya*, VIII, 5 : *Satapatha*, III, 5, 4, 5, *Chhāndogya Upaniṣhad*, v. 18, 1, etc.), as a measure of length, a span' (*ibid.*, II, 50).

(14) The *Satapatha-Bṛāhmaṇa*, 10, 2, 1, 2 : Tasy-aish-āvamā mātṛā yad āṅgulayaḥ, this is his lowest measure, namely the fingers.

(15) 'In some table the aratni is distinguished from the hasta, and is defined as measuring 21 āṅgulas. But the *Sulvasūtra* of Baudhāyana defines it as equal to 2 prādeśa, each of 12 āṅgulas, and so agrees in making it equal to 24 āṅgulas. In any case, our present point is that the *Kauṭīliya-Artha-śāstra* gives its value as 24 āṅgulas.' (Fleet, *J.R.A.S.*, 1912, p. 231, notes 1, 2.)

Compare also *ibid.*, pp. 231, 232, 233.

(16) 'Like some of the other Hindu tables, it (*Kauṭīliya-Artha-śāstra*) starts (p. 106, line 3) with the paramāṇu or 'most minute atom.' It takes its measures up to the āṅgula, through four intermediate grades, by eights; it defines the āṅgula (line 7) as being equal to 8 yava-madhya, or 8 barley-corns laid side by side; and it further defines it as the middle breadth of the middle finger of a middle-sized man. It tells us (line 11) that 12 āṅgulas are 1 vitasti or span, and (line 13) that 2 vitastis are 1 aratni; here, by its aratni of 24 āṅgulas it means the measure which in other tables is usually

called hasta or kara, the forearm, the cubit ; and, in fact, it adds prājāpatya hasta as another name of the its aratni.

‘ In the regular course of the table it tells us next (line 20) that 4 aratnis (i.e. 4 hasta or cubits) are 1 danda, staff or dhanus, bow (from which it follows that 1 dhanus = 96 aṅgulas).’

‘ Now the aṅgula or finger-breadth may be the theoretical unit it may well have been originally the actual unit and the source of the other measures. But we can hardly doubt that the hasta or cubit eventually took its place as the practical unit ; and that a correct scale was maintained by keeping in public offices a standard hasta marked off into 2 vitāsti and 24 aṅgulas. At any rate, the hasta is the practical measures to which we must attend in estimating all the others.’

(17) ‘ Following Colebrooke (*Essays*, I, 540, note), I take the hasta for easy computation at exactly 18 inches, which gives  $\frac{3}{4}$  inch as the value of the aṅgula.’

ANĠHRI—A foot, generally a small (dwarf) pillar constructed on a large one, or in the upper parts of a storey, and pilaster ; a turret.

Tad-dvayaṁ chāṅghri-tuṅgaṁ syād ekāṁśaṁ prastarāṅvitam |

(M., XII, 35.)

Chatush-pādam tri-pādam cha dvī-pādaikāṅghrim eva vā |

(M., LXV, 8.)

Tatra hinādhiḱaṁ chet pāda-sthānāṅghrikāśrayam |

Sarveśhāṁ bhitti-māneṣu tatra doṣho na vidyate | —(M., LXX, 60-61.)

As a synonym of the pillar :

Jaṅghā cha charaṇaṁ chaiva sthālī stambhaṁghrikam |

(M., XV, 4.)

As a pillar of the first floor :

Tadūrdhve’ṅghri śaśāṁśaṁ syāt | —(M., XX, 16.)

Adri-sopāna-pāśve tu na kuryāt pāśvayor aṅghrikam |

(M., XXX, 163.)

As a dwarf pillar placed upon a larger column :

Athavā sapta-saptāṁśaṁ vibhajet tritalodaye |

Chatuṣ-bhāgam adhiśṭhānaṁ tad-dvayaṁ pāda-tuṅgakaṁ |

Adhiśṭhāna-samaṁ mañchaṁ mañchordhve’rdhena vapra-yuk |

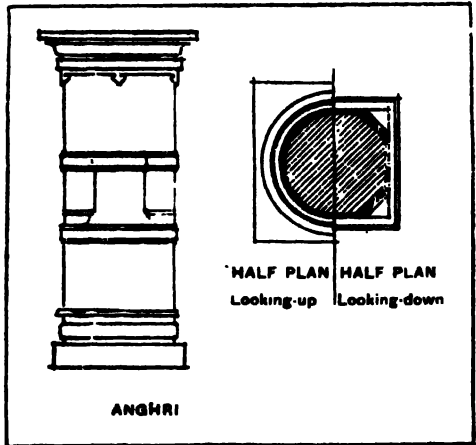
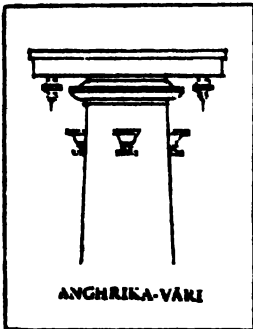
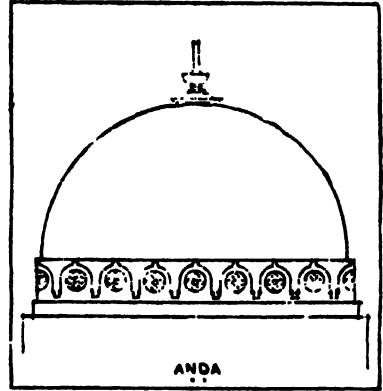
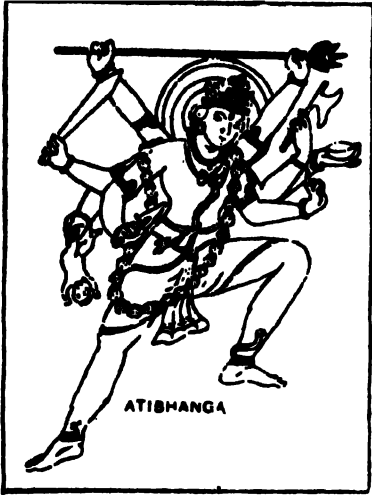
Sa-tripāda-śaḍaṁśena chordhve pādodayaṁ bhavet |

Tadūrdhve prastarottuṅgaṁ sa-tri-pādaṁ tri-pādaḱam |

Tadūrdhve’rdhena vapraṁ syāt tadūrdhve’ṅghri śaḍ-āṁśakaṁ |

(M., XXI, 12-17.)







A subordinate pillar :

Mūla-pāda-viśālaṃ vā tat-tri-pāda-viśālakam |

Etat kumbhāṅghrikam proktam antarālaṃ cha vojayet |

(M., xv, 228-29.)

ANĠHRIKA-VĀRI—A moulding of the lamp-post (dīpa-daṇḍa) of the shape of a water-pot, a rope, a trap, a cover, or a band.

Agre cha phalakāntam cha tāṭikādyair vibhūshitam |

Athavāṅghrika-vāriṃ syād ūrdhve cha kuḍmalānvitam |

(M., I, 78-79.)

ACHALA-SOPĀNA (see SOPĀNA)—A flight of stationary or immovable steps.

Achalaṃ cha chalaṃ chaiva dvidhā sopānam iritam | —(M., xxx, 90.)

See the contents of lines 93-124 under SOPĀNA.

Cf. Evarṃ tu chala-sopānam achalaṃ tat pravakshyate | (151)

Then follows the measurement (152-54).

AṬṬA, AṬṬĀLA—High, lofty.

AṬṬĀLAKA—An apartment on the roof, an upper storey, a tower, a military post.

AṬṬĀLIKĀ—'A house of two or more storeys, a lofty house palace.'—(M.W.Dict.)

(1) *Kauṭīlye-Artha-śāstra* :

Viśakambha-chaturaśram aṭṭālakam utsedha-samāvakshepa-sopānaṃ kārayet.

Trimśad-daṇḍāntaraṃ cha dvayor aṭṭālakayor madhye sa-harmyā-dvi-tālāṃ dvyardhāyāmāṃ pratolīṃ kārayet.

Aṭṭālaka-pratolī-madhye trī-dhānushkādhishṭhānaṃ sāpididhāna-chchhidra-phalaka-saṃhatam itindrakośaṃ kārayet.—(Chap. xxiv, 52.)

(2) *Kāṃikāgama*, xxxv :

Agrato'lindakopetam aṭṭālaṃ sālakāntare |

Gopurasya tu . . . || (126).

(3) *Rājatarāṅgini* :

I. 274 : prākārāṭṭāla-maṇḍalam . . . kinnara-puram |

I. 301 : nagaryaḥ . . . trutyād aṭṭāla-mekhalāḥ |

(4) *Mahābhārata* (Cock) :

II. 80, 30 : prākārāṭṭālakeshu |

III. 15, 16 purī . . . sāṭṭālakāgopurā |

III. 160, 30 Vaiśravaṇāvāsam . . . prākāreṇa parikshiptam |

. . . chāyāṭṭālaka-sobhinam |

III. 173, 3 puram . . . gopurāṭṭālakopetam |

III. 207, 7 Mithilām . . . gopurāṭṭālakavatīm |

XV. 5, 16 puram aṭṭālaka-saṃbādham (with very high storey).

XVI. 6, 24 nagarīm . . . prākārāṭṭālakopetām |

(5) *Rāmāyana* :

I. 5, 11 : Uchchāṭṭāla-dhvaja-vatim śataghni-śata-saṅkulām |

Commentary : aṭṭāla upari gṛiham (*lit.* house at the top).

II. 6, 11 : Chaityeshvaṭṭālakeshu cha |

Commentary : aṭṭālakāḥ prakāroparitana-yuddha-sthānam (aṭṭālakas imply the military towers built on the top of the enclosure walls).

V. 3, 33 : laṅkā . . . sāṭṭa-prākāra-toraṇām |

V. 37, 39 : sāṭṭa-prākāra-toraṇām laṅkā |

V. 55, 32 : laṅkā sāṭṭa-prākāra-toraṇā |

V. 51, 36 : purim sāṭṭa-pratolikām |

V. 58, 158 : purim sāṭṭa-gopurām |

V. 2, 17 : laṅkā . . . aṭṭālaka-śatākīrṇām |

V. 2, 21 : purim . . . vapra-prākāra-jaghanām |

śataghni-śula-keśāntām aṭṭālakāvataśakām |

VI. 75, 6 : gopurāṭṭa-pratolishu chāryāsu cha vividhāsu cha |

(6) Turrets :

Giri-śikhara-taru-taṭ-aṭṭālak-opatalpa-dvāra-śaraṇochchhraya. Compare with : *Raghuvamśa*. xvi, 11, viśirṇa talpāṭṭa śato niveśaḥ—(Kielhorn, *Junāgadh Rock Inscrip. of Rudradaman*, line 6, *Ep. Ind.*, Vol. viii, pp. 43, 46 and note 3.)

ANḌA—A cupola.

Shoḍaśāṇḍayutaḥ (furnished with 16 cupolas), vibhūshito'ṇḍaiś cha vimśatyā (adorned with 20 cupolas)—(*Bṛihat-Saṃhita*, lvi, 22, 24, 28 ; Kern, *J.R.A.S.*, N. S., Vol. vi, p. 319, 320).

Śobhanaiḥ patra-vallibhir aṇḍakaiś cha vibhūshitaḥ |

(*Matsya-Purāṇa*, Chap. cclxix, v. 20, see also v. 37.)

ATI-BHAṄGA (*see* BHAṄGA)—A pose, in which the idol is bent n more than two or three places.

Sarveshām deva-devinām bhaṅga-mānam ihochyate |

Ābhaṅgam sama-bhaṅgam cha ati-bhaṅgam tridhā bhavet |

(*M.*, lxxvii, 95-96.)

Evam tu sama-bhaṅgam syād ati-bhaṅgam ihochyate |

Parshṇyantarām śarāṅgulyam tat-pādāṅgushṭhāyoraṅtare |

Tad dvayoraṅ madhyame vimśad aṅgulyam dvyantaram bhavet |

Taj-jānu-dvayoraṅ madhye dvyantaram dvādaśāṅgulam |

Ūru-mūla-dvayoraṅ madhye sārḍha-dvyaṅgula-kāntakam |

Evam ati-bhaṅgam syād etāni yuktito nyaset | —(*ibid.*, 117-22.)

ADBHUTA (*see* UTSEDHA)—One of the five proportions of the measurement of the height ; in this proportion the height is twice the breadth.

(1) *Mānasāra* :

Pañchadhotsedham utkṛishṭam māt pañcha-vidham nāma ।  
Sāntikam paushṭikam śreṣṭham pārshṇikam (also, jayadam)  
madhya-māne tu ।

Hinam tu dvayam ta(*d*)-dvi-guṇam chādbhutam kathitam ।

Karā(samā)dhikodayam-harmye sarvakāmikam udīritam ।

(*M.*, xi, 20-22.)

Sāntikam paushṭikam jayadam chādbhutam uttūṅgam sarvakāmikam । —(*M.*, xi, 76).

A clear statement of the rule :

Tad-vistāra-samottūṅgam sapādārdham tu tuṅgakam ।

Tri-pādāhikam utsedham vistāram dvi-guṇodayam ॥

Prathamam sāntikotsedham dvitīyam paushṭikodayam ।

Tritīyam jayadottūṅgam chaturtham dhanadodayam (i.e. sarvakāmikam) ।

Pañchamam chādbhutotsedham janmādi-stupikāntakam ।

(*M.*, xxxv, 21-25.)

(2) *Kāmikāgama*, L, 24-28 :

A measurement of the height :

Sāntikam puṣṭi-jayadam adbhutam sarvakāmikam ।

Utsedhe dvi-guṇa-vyāsaḥ pādādhikyam cha sammatam ॥ (24).

Vistāra-dvi-guṇād aśṭāśādhikam vādhiyojayet ।

Kaḥudrāpām evam uddiṣṭam kaṇiṣṭhānām athochyate ॥ (25).

Saptāśāc tu kṛite vyāse saptāśācām vā śaḍ-āśācakam ।

Vistārād adhikas tuṅgo madhya-mānam athochyate ॥ (26).

Vistāram pūrvavat kṛitvā chatuṣ-pañchādhikam tu yat ।

Madhya-mānam idam prokṛtam uttamānām trayāśācakam ॥

Pūrvam uddeśa-mānam syād etaṁ nirdeśu-mānakam ॥ (27).

Eka-dvi-tri-karayor yukṛtam māna-hīnam tu vādhiyam ।

Utsedham kalpayed dhīmān sarvashām api sadmanām ॥ (28).

(3) A class of the two-storeyed buildings.

(*See M.*, xx, 94, 28-33, under PRASĀDA.

A class of buildings—(*See Kāmikāgama*, xlv, 61a, under MĀLIKĀ.)

ADRI-SOPĀNA (*see* SOPĀNA)—A flight of steps for a hill :

Adri-sopāna-pārśve tu na kuryāt pārśvayo aṅghrikam ।

(*M.*, xxx, 163.)

Adri-sopāna-deśe tu dīrgha-mānam yatheshṭakam । —(*ibid.*, 136.)

Adri-deśe samārohya yatra tatraiva kārayet । —(*ibid.*, 118.)

**ADHIMAṆḌAPA**—A pavilion built over and above another, a double-storeyed pavilion. (Pavilions are generally single-storeyed buildings, *see* MAṆḌAPA.)

Kshudra-devālayaṁ sarvaṁ pūrvavaj janmādim uditam ।

Maṇḍapaṁ nava-talaṁ kuryād bhavanam anya(madhya)-raṅgaṁ  
vādhimaṇḍapākāram—(M., XI, 143-44).

**ADHISHṬHĀNA**—Etymologically (adhi-sthā, to stand) it denotes an object on which something stands. Hence it is the basement or the lowest member of a building. In the same way, it implies the stand or base of the column, being the member between the shaft and the pedestal, if there be any. Its identification with the base and the basement need not be questioned. It is clear beyond doubt by a comparison of the component parts and the offices it serves with the corresponding details (quoted below) of the Grecian and Roman architecture.

(1) *Kāmikagāma*, xxxv :

Yajamānasya jānvantaṁ nāvyaṁtaṁ hṛidayāvadhi ।

Galāvadhi śiro'ntaṁ cha pādārdhaṁ vā tri-bhāgikam ॥ (22).

Tri(trā)yādi-shoḍaśa-bhāgānām adhikaṁ vokta-mānataḥ ।

Adhishṭhānasya mānam syūt . . . ॥ (23).

Talādhisṭhāna-pādebhyaḥ kiṁchid-una-pramāṇakam ॥ (114).

Mūla-dhāma-talottuṅgādhisṭhāna-tala-saṁyutam ।

Tad-vihīna-talaṁ vāpi sama-sthala-yutaṁ tu vā ॥ (116).

Adhishṭhānādi shaḍ-vargaṁ tan-mānam upapīṭhake ।

Dvārotsedhāya dātavyaṁ samaṁ vāpyadhikam tu vā ॥ (122).

*Ibid.*, LV, 202 :

Masūrakam adhishṭhānaṁ vastvādhāraṁ dharātalam ।

Talaṁ kuṭṭimādyāṅgam adhishṭhānasya kirtitam ॥

These are stated to be the synonyms of adhishṭhāna. But they appear as the component parts of it.

(2) *Suprabhedāgama*, xxxi :

Tato jāṅgala-bhūmiś cched adhishṭhānaṁ prakalpayet ।

Tach-chatur-vidham ākhyātam iha śāstre viśeṣnataḥ ॥ (16).

Padma-bandhaṁ chāru-bandhaṁ pāda-bandhaṁ prati-kramam ।

Vistārasya chaturthāṁśam adhishṭhānochchhrayaṁ bhavet ॥ (17).

(*See* the mouldings of these four bases under those terms.)

Pādāyāmam adhishṭhānaṁ dvi-guṇam sarva-sammatam ॥ (28).

(3) *Mānasāra*, Chap. xiv (named Adhishṭhāna, 1-412) :

Twelve kinds of heights (from one large span to four large cubits) to be employed in twelve storeyes, one above the other :

Trayodaśāṅgulaṃ ārabhya śhaṭ-śhaṭ-āṅgula-varḍhanāt |

Chatur-hastāvasānaṃ syāt kuṭṭīma (= adhishṭhāna)-dvā-  
daśonnataṃ |

Eka-dvā-daśa-bhūmyantaṃ harmyāntaṃ tat kramāt nyaset | (2-4).

These heights vary in buildings of the different castes and ranks :

Viprāpāṃ tu chatur-hastaṃ bhū-patināṃ trī-hastakam | .

Sārdha-dvi-hastam utsedhaṃ yuva-rājasya harmyake |

Dvi-hastaṃ tu viśāṃ proktaṃ eka-hastaṃ tu śūdrake | (5-7).

These heights are stated to be proportionate to the heights of the buildings :

Harmya-tuṅga-vaśāt proktaṃ tasya māsu(ū)rakonnatam |

Janmādi-vājanāntaṃ syat kuṭṭimodayam iritam | (8-9).

The height of the base as compared with that of the pedestal :

Adhishṭhānonnate deśe chopapīṭhaṃ hi sarśritam |

Etaṃ tat-tvam adhishṭhānaṃ tuṅgaṃ tach chatur-aṃśakam |

(M., XIII, 2-3.)

The comparative heights of the base, pedestal and shaft or pillar :

In a Tamil fragment of a manuscript, purporting to be a translation of *Māyāmata* (? Mayamata), it is said : 'The height of the shaft or pillar is to be divided into four parts, and one to be given to the base, which may or may not be accompanied by a pedestal, and in the case where a pedestal is joined to the base, the height of the pedestal may be either equal to that of the base, or twice or three times as much.'—(Rām Rāz, *Ess. Arch. of Hind.*, p. 26.)

According to Rām Rāz, the passage, M., XIII, 2-3, quoted above, is meant to imply that the height of the pedestal consists 'of from one-quarter to six times the height of the base.'—(*Ibid.*, p. 26.)

According to the *Mānasāra* (XXI, 13, *see* below) and the *Suprabhādāgama* (XXXI, quoted above) the base is half of the pillar (pāda). The *Kāṃikāgama* does not give exact proportion, but says (XXXV, 114, *see* above) that the tala (the lowest part, or the pedestal and the base) is a little less (kirnchid ūna) than the pillar or shaft (pāda).

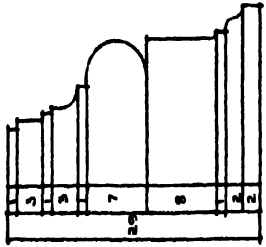
Compare also verses 22, 23 of the same *Āgama* quoted above.

The height of the base is sometimes included in that of the pillar :

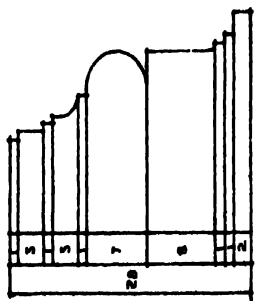
Pādāyāmāvasānaṃ cha adhishṭhānodayena cha |—(M., xv, 9.)

**THE BASES OF COLUMNS**

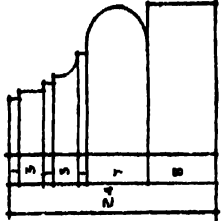
**THE PĀDA-BANDHA CLASS**



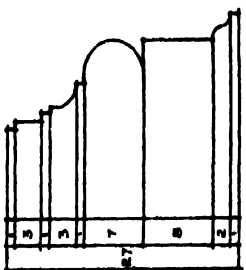
**SECOND TYPE**  
OF 26 PARTS —



**FOURTH TYPE**  
OF 28 PARTS —



**FIRST TYPE**  
OF 24 PARTS —



**THIRD TYPE**  
OF 27 PARTS —





Further comparative measurement of the base :

Athavā sapta-saptāṁśam vibhajet tri-talodaye |

Chatur-bhāgam adhiṣṭhānam tad-dvayaṁ pāda-tuṅgakam |

Adhiṣṭhāna-samaṁmañcharṁ mañchordhve'rdhena vaprayuk |

(M., XXI, 12-14.)

Adhiṣṭhāna implying the basement of a building :

Garbhāvaṭasya (of the foundation pit) nimnam syād  
adhiṣṭhāna(ṁ)-samonnatam |

Iṣṭakair api pāshāṇaiś chaturaśraṁ samaṁ bhavet |

(M., XII, 6-7.)

The employment of various bases recommended, referring to the building of three storeys :

Nānādhiṣṭhāna-samyuktaṁ nānā-pādair alaṅkṛitam |

Nānā-gopāna-samyuktaṁ kshudra-nāsyair vibhūṣitam |

(M., XX, 65-66.)

The penalty for having a disproportionate base :

Adhiṣṭhānottuṅga-hinaṁ syāt sthāna-nāśam dhana-kshayam |

(M., LXIX, 20.)

The 64 types of bases :

Evaṁ chatuḥ-shaṣṭi-maṣūrakāṇi (= adhiṣṭhānam) śāstrokta-  
mānena vibhājitaṁ |

Jñātvā prakurvann iha śilpi-varyas tad vāstu-bhartuḥ pradadāti  
saṁpat | —(M., XIV, 393-96.)

These 64 bases are described under 19 technical class names  
(10-372) ; the details thereof are as follows :

*Mānasāra*, Chap. xiv (The mouldings are arranged in the successive  
order, as given in the text, from the bottom upwards) :

I.—Pāda-bandha (10-22) :

(a) 24 parts :				Parts
(1) Vapraka (plinth)	..	..	..	8
(2) Kumuda (astragal)	..	..	..	7
(3) Kampa (fillet)	..	..	..	1
(4) Karṇa (ear)	..	..	..	3
(5) Kampa (fillet)	..	..	..	1
(6) Paṭṭikā (band, fillet)	..	..	..	3
(7) Kampa (fillet)	..	..	..	1
(b) 29 parts :				
(1) Janman (plinth)	..	..	..	2
(2) Padma (cyma)	..	..	..	2
(3) Kampa (fillet)	..	..	..	1
The rest as before.				

(c) 29 parts :				<i>Parts</i>
(1) Janman (plinth)	..	..	..	1
The rest as before.				
(d) 28 parts :				
(1) Janman (plinth)	..	..	..	2
(2) Kampa (fillet)	..	..	..	1
(3) Vapra (cavetto)	..	..	..	1
(4) Kandhara (dado)	..	..	..	2
The rest as before.				
II.—Uraga-bandha (23-43) :				
(a) 18 parts :				
(1) Vapra (plinth)	..	..	..	7
(2) Kumuda (astragal)	..	..	..	6
(3) Kampa (fillet)	..	..	..	1
(4) Kandhara (dado)	..	..	..	1
(5) Paṭṭa } (fillet)	..	..	..	2
(6) Paṭṭikā }	..	..	..	2
(7) Kampa (fillet)	..	..	..	1
(b) 20 parts :				
(1) Vājana (fillet)	..	..	..	1
(2) Kandhara (dado)	..	..	..	2
(3) Vājana (fillet)	..	..	..	1
The rest as before.				
(c) 22 parts :				
(1) Kampa (fillet) above kumbha (pitcher)	..	..	..	1
(2) Karṇa (ear)	..	..	..	1
(3) Kampa (fillet)	..	..	..	1
(4) Kampa (fillet)	..	..	..	1
(5) Kandhara (dado)	..	..	..	1
(6) Vājana (fillet)	..	..	..	1
(7) Kandhara (dado)	..	..	..	3
(8) Gopānaka (beam)	..	..	..	2
(9) Prati-vājana (cavetto)	..	..	..	11
(d) 24 parts :				
(1) Vapra (plinth)	..	..	..	7
(2) Kumuda (torus) (the peculiaritv of this part is that it is decorated with makara or shark), etc.	..	..	..	6
(3) Vājana (fillet)	..	..	..	1
(4) Kampana (fillet)	..	..	..	1
(5) Kampa (fillet)	..	..	..	1
(6) Prati-vājana (cavetto)	..	..	..	8

These four types of bases are shaped like the face of a snake and furnished with two pratis or . . . at the top : and their kumbha (pitcher) is circular. These are employed in the buildings of gods (i.e. temples), Brāhmanas, and kings.

III.—Prati-krama (44-64) :

(a) 21 parts :				Parts
(1) Kshudropāna (small plinth)	..	..	..	1
(2) Padma (cyma)	..	..	..	2½
(3) Kampa (fillet)	..	..	..	1½
(4) Vapra (cavetto)	..	..	..	7
(5) Dhārā-kumbha (supporting pitcher)	..	..	..	6
(6) Āliṅga (fillet)	..	..	..	1
(7) Antarita (fillet)	..	..	..	1
(8) Padma (cyma) or Kampa (fillet) Paṭṭa (band)				1 or 2

This base is decorated with elephants, horses, and makaras (sharks), etc. (xiv, 53).

(b) 22 parts (kumbhe kumudordhve viśeshataḥ, specially above the pitcher and torus) :

				Parts
(1) Āliṅga (fillet)	..	..	..	1
(2) Vājana (fillet)	..	..	..	1
(3) Kandhara (dado)	..	..	..	2
(4) Paṭṭika (band)	..	..	..	1
(5) Vājana (fillet) (this part is decorated with the carvings of trees and all ornaments)	..	..	..	1

The rest should be as before.

(c) 23 parts (Kumbhāntam pūrvavat sorḍhve) :

(1) Kampa (fillet)	..	..	..	1
(2) Kandhara (dado)	..	..	..	1
(3) Kampa (fillet)	..	..	..	1
(4) Karṇa (ear)	..	..	..	2
(5) Vājana (fillet)	..	..	..	1

The rest should be as before.

(d) 24 parts :

(1) Kampana (fillet) (upper and lower)	..	..	..	1 each
(2) Antara(rita) (intervening fillet)	..	..	..	1
(3) Tripaṭṭa (three bands)	..	..	..	2
(4) Antara (intervening fillet)	..	..	..	1
(5) Pratima (? Prati-vājana=cavetto)	..	..	..	1
(6) Vājana (fillet)	..	..	..	1

The rest should be as before.

These are employed in the buildings of gods and three higher castes (xiv, 100-101).

## IV.—Kumuda-bandha (65-77) :

(a) 27 parts :		<i>Parts</i>
(1) Janman (plinth)	.. ..	2
(2) Ambuja (cyma)	.. ..	2
(3) Kampa (fillet)	.. ..	1
(4) Vapra (cavetto)	.. ..	6
(5) Padma (cyma)	.. ..	1
(6) Karṇa (ear) ..	.. ..	1
(7) Amśu (filament)	.. ..	1
(8) Padma (cyma)	.. ..	1
(9) Kumuda (astragal)	.. ..	3
(10) Padma (cyma)	.. ..	1
(11) Padma (cyma)	.. ..	1
(12) Karṇa (ear)	.. ..	1
(13) Kampa (fillet)	.. ..	1
(14) Abja (cyma) ..	.. ..	1
(15) Paṭṭa (band)	.. ..	2
(16) Abja (cyma)	.. ..	1
(17) Kampa (fillet)	.. ..	1
(b) 27 parts (paṭṭike tu viśeshataḥ) :		
Gopāna (beam) ..	.. ..	2

Some authorities recommend Tripaṭṭa in place of kumuda (astragal) which should be equal to the nāga or snake.

Paṭṭas (bands) in the middle are decorated with flowers and jewels.

It is supplied with a declivity (kaṭaka) or it may be circular.

Kumuda (astragal) may be triangular or hexagonal.

In this way, *eight kinds* of (such) bases should be made : Evam aṣṭa-vidhaṁ kuryāt.

## V.—Padma-kesara (suitable for all buildings) (78-91) :

(a) 19 parts :		<i>Parts</i>
(1) Janman (plinth)	.. ..	2
(2) Vapra (cavetto)	.. ..	4
(3) Padma (cyma)	.. ..	$\frac{1}{2}$
(4) Kandhara (dado)	.. ..	$\frac{1}{2}$
(5) Ardha-padma (half cyma)	.. ..	$\frac{1}{2}$
(6) Kumuda (astragal)	.. ..	1
(7) Padma (cyma)	.. ..	1 $\frac{1}{2}$
(8) Kampa (fillet)	.. ..	1 $\frac{1}{2}$
(9) Karṇa (ear)	.. ..	2

				<i>Parts</i>
(10) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(11) Padma (cyma)	..	..	..	$\frac{1}{2}$
(12) Paṭṭika (band)	..	..	..	2
(13) Padma (cyma)	..	..	..	1
(14) Kampa (fillet)	..	.	..	1
<i>(b) 19 parts :</i>				
(1) Janman (plinth)	..	..	..	$1\frac{1}{2}$
(2) Kampa (fillet)	.	..	..	$\frac{1}{2}$
The rest should be as before.				
<i>(c) 19 parts :</i>				
(1) Janman (plinth)	.	..	..	1
(2) Padma (cyma)	..	..	..	$\frac{1}{2}$
The rest should be as before.				

*(d) 19 parts :*

In this last sort of this base, there is a slight difference (kiñchit śeṣaṁ viśeṣataḥ). There should be two paṭṭikas or (one) kapota and the rest as before.

VI.—Pushpa-pushkala (suitable, as stated, for all the storeys of the buildings of the small, intermediate, and large sizes) (92-108) :

<i>(a) 32 parts :</i>				<i>Parts</i>
(1) Janman (plinth)	..	..	..	2
(2) Vājana (fillet)	..	..	..	1
(3) Mahā-padma (large cyma)	.	..	..	7
(4) Karṇa (ear)	..	..	..	1
(5) Ambuja (cyma)	..	..	..	1
(6) Kumbha (pitcher)	..	..	..	4
(7) Padma (cyma)	..	..	..	1
(8) Kampa (fillet)	..	..	..	1
(9) Gala (dado)	..	..	..	3
(10) Kampa (fillet)	..	..	..	1
(11) Gala (dado)	..	..	..	1
(12) Gopāna (beam)	..	..	..	4
(13) Āliṅga (fillet)	..	..	..	1
(14) Antarita (fillet)	..	..	..	1
(15) Prati-mukha (a face-like ornament)	..	..	..	2
(16) Vājana (fillet)	..	..	..	1

*(b) 32 parts :*

Padma (cyma) above the large portion is one part more and the rest should be as before.

(c) 32 parts :

The cyma above the plinth is one part and the rest should be as before.

(d) 32 parts :

	<i>Parts</i>
(1) Kampa (fillet) below mahāmbuja (large cyma)	1
(2) Mahāmbuja (large cyma) .. ..	6

The rest should be as before.

VII.—Śrī-bandha (suitable for the palaces of emperors and the temples of Viṣṇu and Śiva) (109–22) :

(a) 26 parts :

	<i>Parts</i>
(1) Janman (plinth) .. ..	1
(2) Vapra (cavetto) .. ..	6
(3) Kumuda (torus) .. ..	6
(4) Karṇa (ear) .. ..	1
(5) Karṇa (ear) .. ..	4
(6) Kampa (fillet) .. ..	1
(7) Padma (cyma) .. ..	1
(8) Gopāna (beam) .. ..	1
(9) Āliṅga (fillet) .. ..	1
(10) Antarita (fillet) .. ..	1
(11) Prati-vaktra (a face-like ornament) ..	2
(12) Vājana (fillet) .. ..	1

(b) 26 parts :

(1) Janman (plinth) .. ..	2
(2) Pratika (=Prati-vaktra, a face-like ornament)	1

The rest should be as before.

(c) 26 parts :

(1) Kaṣhepaṇa (above Janman or plinth) (projection)	1
(2) Gopāna (beam) .. ..	1
(3) Āliṅga (fillet) .. ..	1
(4) Antarita (fillet) .. ..	1
(5) Prati-vaktra (a face-like ornament) ..	1
(6) Ardha-vājana (half fillet) .. ..	1

The rest should be as before.

(d) 26 parts :

(1) Janman (plinth) .. ..	1
(2) Abjaka (small cyma) .. ..	1
(3) Kampa (fillet) .. ..	1

The rest should be as before.

VIII.—Mañcha-bandha (for temples and palaces) (123-143) :

(a) 26 parts :				<i>Parts</i>
(1) Janman (plinth)	..	..	..	$\frac{1}{2}$
(2) Padma (cyma)	..	..	..	2
(3) Kampa (fillet)	..	..	..	2
(4) Kampa (fillet)	..	..	..	2
(5) Vapra (cavetto)	..	..	..	6
(6) Kumbha (pitcher)	..	..	..	4
(7) Kampa (fillet)	..	..	..	1
(8) Kandhara (dado)	..	..	..	2
(9) Kampa (fillet)	..	..	..	1
(10) Paṭṭa (band)	..	..	..	1
(11) Kshepaṇa (projection)	..	..	..	1
(12) Āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(13) Kampa (fillet)	..	..	..	1
(14) Prati (fillet)..	..	..	..	$1\frac{1}{2}$
(15) Vājana (fillet)	..	..	..	$\frac{1}{2}$

This is decorated with the carvings (rūpa) of vyālas (snailions, and sharks, etc. (137).

(b) 26 parts :				<i>Parts</i>
(1) Janman (plinth)	..	..	..	2
(2) Ambuja (cyma)	..	..	..	2
(3) Kshepaṇa (projection)	..	..	..	1
(4) Vapra (cavetto)	..	..	..	6
(5) Kumuda (torus)	..	..	..	4
(6) Kampa (fillet)	..	..	..	1
(7) Kandhara (dado)	..	..	..	2
(8) Kampa (fillet)	..	..	..	1
(9) Paṭṭikā (band)	..	..	..	2
(10) Kampa (fillet)	..	..	..	1
(11) Karṇa (ear)..	..	..	..	1
(12) Vājana (fillet)	..	..	..	1
(13) Prati (fillet)	..	..	..	1
(14) Vājana (fillet)	..	..	..	1

(c) 26 parts :

The Kumuda and prati are furnished with a tripaṭṭa (threefold band); and the rest as before, and the ornaments also are the same.

(d) 26 parts :

				<i>Parts</i>
(1) Paṭṭika (fillet) same as before ;	..	..	..	1
(2) Kandhara (dado)	..	..	..	1

The rest as before.



(e) 26 parts :

The Paṭṭika is the same but the Kandhara above is one part, and the rest as before. The ornaments should be discreetly made (148).

IX.—Sreṇi-bandha (for temples and all other buildings) (144-169) :

(a) 18 parts :

	<i>Part:</i>
(1) Janman (plinth) .. ..	1½
(2) Kshudra-kampa (small fillet) .. ..	½
(3) Mahāmbuja (large cyma) .. ..	5
(4) Kandhara (dado) .. ..	1
(5) Abja (cyma) .. ..	1
(6) Kumbha (pitcher) .. ..	3
(7) Padma (cyma) .. ..	1
(8) Āliṅga (fillet) .. ..	1
(9) Vājana (fillet) .. ..	;
(10) Prati (fillet) .. ..	2
(11) Vājana (fillet) .. ..	1

(b) 22 parts :

(1) Janman (plinth) .. ..	2
(2) Kshudra-kshepaṇa (small projection) .. ..	½
(3) Ambuja (cyma) .. ..	4½
(4) Kandhara (dado) .. ..	1
(5) Abjaka (small cyma) .. ..	1
(6) Kumbha (pitcher) .. ..	3
(7) Padma (cyma) .. ..	1
(8) Kampa (fillet) .. ..	1
(9) Kandhara (dado) .. ..	2
(10) Kshepaṇa (projection) .. ..	1
(11) Padma (cyma) .. ..	1
(12) Paṭṭikā (band) .. ..	2
(13) Padma (cyma) .. ..	1
(14) Vājana (fillet) .. ..	1

(c) 23 parts :

(1) Pāduka (plinth) .. ..	2½
(2) Kampa (fillet) .. ..	½
(3) Mahāmbuja (large cyma) .. ..	5
(4) Kandhara (dado) .. ..	1
(5) Padma (cyma) .. ..	1
(6) Kumuda * (astragal) .. ..	3
(7) Padma (cyma) .. ..	1

				<i>Parts</i>
(8) Kampa (fillet)	..	..	..	1
(9) Kandhara (dado)	..	..	..	1
(10) Vājana (fillet)	..	..	..	1
(11) Antarita (fillet)	..	..	..	3
(12) Prati (fillet) ..	..	..	..	2
(13) Vājana (fillet)	..	..	..	1
(d) 24 parts :				
(1) Janman (plinth)	..	..	..	1
(2) Kshudra-padma (small cyma)	..	..	..	1
(3) Vājana (fillet)	..	..	..	1
(4) Mahā-padma (large cyma)	..	..	..	5
(5) Dala (petal)	..	..	..	1
The rest as before.				

These are decorated with lions, etc. (174).

X.—Padma-bandha (for the temples of gods and goddesses) (170-194):

(a) 21 parts :				<i>Parts</i>
(1) Janman (plinth)	..	..	..	1
(2) Padma (cyma)	..	..	..	1
(3) Kampa (fillet)	..	..	..	1
(4) Kumbha (pitcher)	..	..	..	1
(5) Kshepaṇa (projection)	..	..	..	1
(6) Adhaḥ-padma (lower cyma)	..	..	..	3
(7) Karṇa (ear)	..	..	..	1
(8) Kampa (fillet)	..	..	..	2
(9) Paṭṭikā (band)	..	..	..	2
(10) Kampa (fillet)	..	..	..	1
(11) Kandhara (dado)	..	..	..	1
(12) Paṭṭa (band)	..	..	..	2
(b) 21 parts :				
(1) Upāna (plinth)	..	..	..	3
(2) Padma (cyma)	..	..	..	1
(3) Kumuda (astragal)	..	..	..	5
(4) Kampa (fillet)	..	..	..	1
(5) Padma (cyma)	..	..	..	4
(6) Kampa (fillet)	..	..	..	1
(7) Gala (dado)	..	..	..	2
(8) Kshepaṇa (projection)	..	..	..	1
(9) Padma (cyma)	..	..	..	1
(10) Kapota (dove-cot)	..	..	..	2
(11) Kumpa (fillet)	..	..	..	1

(c) 21 parts :				<i>Paris</i>
(1) Abja (cyma) as before ;				
(2) Kampa (fillet)	..	..	..	1
(3) Karṇa (ear) ..	..	..	..	2
(4) Kampa (fillet)	..	..	..	1
(5) Antarita (fillet)	..	..	..	2
(6) Prati (fillet) ..	..	..	..	1
(7) Vājana (fillet)	..	..	..	1
The rest as before.				

(d) 19 parts :				
(1) Janman (plinth)	..	..	..	3
(2) Padma (cyma)	..	..	..	1
(3) Kandhara (dado)	..	..	..	1
(4) Padma (cyma)	..	..	..	1
(5) Kumbha (pitcher)	..	..	..	5
(6) Padma (cyma)	..	..	..	1
(7) Kampa (fillet)	..	..	..	1
(8) Karṇa (ear) ..	..	..	..	1
(9) Padma (cyma)	..	..	..	1
(10) Kapota (dove-cot)	..	..	..	1
(11) Āliṅga (fillet)	..	..	..	1
(12) Antarita (fillet)	..	..	..	1
(13) Prati-vājana (fillet)	..	..	..	1

These are discreetly adorned with grāhas (sharks), lions, etc. (203).

XI.—Kumbha-bandha (195-239) :

(e) 24 parts :				<i>Parts</i>
(1) Janman (plinth)	..	..	..	2
(2) Padma (cyma)	..	..	..	2
(3) Kampa (fillet)	..	..	..	1
(4) Karṇa (ear) ..	..	..	..	3
(5) Kampa (fillet)	..	..	..	1
(6) Paṭṭikā (band)	..	..	..	1
(7) Kampa (fillet)	..	..	..	1
(8) Padma (cyma)	..	..	..	1
(9) Karṇa (ear)	..	..	..	1
(10) Padma (cyma)	..	..	..	1
(11) Kumbha (pitcher)	..	..	..	3
(12) Padma (cyma)	..	..	..	1
(13) Nimna (drip)	..	..	..	1
(14) Kampa (fillet)	..	..	..	1
(15) Nimna (drip)	..	..	..	1
(16) Prati (fillet)	..	..	..	1

(b) 24 parts :

				<i>Parts</i>
(1) Kumbha (pitcher)	..	..	..	1
(2) Nimnaka (drip)	..	..	..	$1\frac{1}{2}$
(3) Janman (plinth)	..	..	..	2
(4) Padma (cyma)	..	..	..	2
(5) Nimna (drip)	..	..	..	1
(6) Kumbha (pitcher)	..	..	..	1
(7) Kampa (fillet)	..	..	..	1
(8) Kandhara (dado)	..	..	..	1
(9) Kampa (fillet)	..	..	..	1
(10) Kampa (fillet)	..	..	..	1
(11) Kapota (dove-cot)	..	..	..	1
(12) Vājana (fillet)	..	..	..	1
(13) Padma (cyma)	..	..	..	$1\frac{1}{2}$
(14) Nimna (drip)	..	..	..	1
(15) Padma (cyma)	..	..	..	$1\frac{1}{2}$
(16) Kumbha (pitcher)	..	..	..	1
(17) Padma (cyma)	..	..	..	$1\frac{1}{2}$
(18) Nimna (drip)	..	..	..	1
(19) Kshepaṇa (projection)	..	..	..	1
(20) Nimna (drip)	..	..	..	1
(21) Prati (fillet)	..	..	..	1

(c) 24 parts :

(1) Janman (plinth)	..	..	..	2
(2) Padma (cyma)	..	..	..	2
(3) Kandhara (dado)	..	..	..	1
(4) Kumbha (pitcher)	..	..	..	1
(5) Nimna (drip)	..	..	..	1
(6) Kshudra-paṭṭa (small band)	..	..	..	1
(7) Abja (cyma)	..	..	..	1
(8) Kapota (dove-cot)	..	..	..	2
(9) Kshepaṇa (projection)	..	..	..	1
(10) Padma (cyma)	..	..	..	$1\frac{1}{2}$
(11) Kandhara (dado)	..	..	..	$1\frac{1}{2}$
(12) Padma (cyma)	..	..	..	$1\frac{1}{2}$
(13) Kumbha (pitcher)	..	..	..	3
(14) Adhaḥ-padma (lower cyma)	..	..	..	1
(15) Kandhara (dado)	..	..	..	1
(16) Kampa (fillet)	..	..	..	1
(17) Kshudrābja (small cyma)	..	..	..	$1\frac{1}{2}$
(18) Kapota (dove-cot)	..	..	..	2( $2\frac{1}{2}$ )
(19) Prati-vājana (fillet), the remainder.				

(a) 26 parts :	<i>Parts</i>
(1) Janman (plinth) .. .. .	2
(2) Padma (cyma) .. .. .	2
(3) Kampa (fillet) .. .. .	1
(4) Kandhara (dado) .. .. .	2
(5) Kampa (fillet) .. .. .	1
(6) Padma (cyma) .. .. .	1
(7) Paṭṭikā (band) .. .. .	2
(8) Padma (cyma) .. .. .	1
(9) Āliṅga (fillet) .. .. .	1
(10) Padma (cyma) .. .. .	1
(11) Kumbha (pitcher) .. .. .	3
(12) Padma (cyma) .. .. .	1
(13) Padma (cyma) .. .. .	1
(14) Kendra (central part) .. .. .	2
(15) Kampa (fillet) .. .. .	1
(16) Abja (cyma) .. .. .	1
(17) Kapota (dove cot) .. .. .	1
(18) Kampa (fillet) .. .. .	1

The rest should be discreetly made.

These should be decorated with sharks, etc. and kshudra-nāsi (small nose) (246).

This is stated to be of five kinds [see (b) (1), (2) above] specially in the Kumbha part (247).

These may be circular, triangular (tri-paṭṭa), rectangular (? dhārāya), and should be furnished with kaṭakas. These are suitable for temples and palaces (248).

#### XII.—Vapra-bandha (240-248) :

(a) (?) 31 parts :	<i>Parts</i>
(1) Janman (plinth) .. .. .	2
(2) Kampa (fillet) .. .. .	$\frac{1}{2}$
(3) Padma (cyma) .. .. .	$1\frac{1}{2}$
(4) Vājana (fillet) .. .. .	$\frac{1}{2}$
(5) Vapra (cavetto) .. .. .	$3\frac{1}{2}$
(6) Padma (cyma) .. .. .	$1\frac{1}{2}$
(7) Kampa (fillet) .. .. .	$\frac{1}{2}$
(8) Kandhara (dado) .. .. .	2
(9) Kampa (fillet) .. .. .	$\frac{1}{2}$
(10) Padma (cyma) .. .. .	$\frac{1}{2}$
(11) Paṭṭikā (band) .. .. .	1
(12) Padma (cyma) .. .. .	$\frac{1}{2}$

				<i>Parts</i>
(13) Vājana (fillet)	..	..	..	$\frac{1}{2}$
(14) Karṇa (ear)	..	..	..	4
(15) Kshepaṇa (projection)	..	..	..	1
(16) Ambuja (cyma)	..	..	..	$\frac{1}{2}$
(17) Kapota (dove-cot)	..	..	..	2
(18) Prati-vājana (fillet)	..	..	..	1

XIII.—Vajra-bandha (249-259) :

(a) 31 parts :				<i>Parts</i>
(1) Janman (plinth)	..	..	..	1
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Padma (cyma)	..	..	..	$1\frac{1}{2}$
(4) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(5) Kandhara (dado)	..	..	..	$\frac{1}{2}$
(6) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(7) Padma (cyma)	..	..	..	$\frac{1}{2}$
(8) Vajra-kumbha (round pitcher)	..	..	..	2
(9) Saro-ruha (cyma)	..	..	..	1
(10) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(11) Karṇa (ear)	..	..	..	1
(12) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(13) Ambuja (cyma)	..	..	..	$\frac{1}{2}$
(14) Kapota (dove cot)	..	..	..	2
(15) Prati-vājana (fillet)	..	..	..	1
(16) Kandhara (dado)	..	..	..	2
(17) Kampa-padma (fillet and cyma)	..	..	..	1
(18) Vajra-paṭṭa (round band)	..	..	..	2
(19) Padma-kampa (cyma and fillet)	..	..	..	1

XIV.—Śrī-bhoga (260-280) :

(a) 27 parts :				<i>Parts</i>
(1) Janman (pliuth)	..	..	..	$2\frac{1}{2}$
(2) Kshudra-kampa (small fillet)	..	..	..	$\frac{1}{2}$
(3) Ambuja (cyma)	..	..	..	3
(4) Kshudra-padma (small cyma) (it is attached to the small karṇa, line 275) ;				$\frac{1}{2}$
(5) Karṇa (ear)	..	..	..	1
(6) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(7) Kshudrābja (small cyma)	..	..	..	$3(?)\frac{1}{2}$
(8) Kumuda (astragal)	..	..	..	3
(9) Padma (cyma)	..	..	..	$\frac{1}{2}$

				<i>Parts</i>
(10)	Kshepaṇa (projection)	..	..	$\frac{1}{2}$
(11)	Karṇa (ear)	..	..	1
(12)	Kampa (fillet)	..	..	$\frac{1}{2}$
(13)	Padma (cyma)	..	..	$\frac{1}{2}$ (?1)
(14)	Paṭṭikā (band)	..	..	1
(15)	Padma (cyma)	..	..	$\frac{1}{2}$
(16)	Kampa (fillet)	..	..	$\frac{1}{2}$
(17)	Kandhara (dado)	..	..	2
(18)	Kampa-padma (fillet and cyma)	..	..	1(?1 + 1)
(19)	Kapotaka (dove-cot)	..	..	2
(20)	Āliṅga (fillet)	..	..	2
(b) 27 parts :				<i>Parts</i>
(1)	Janman (plinth)	..	..	2
(2)	Kshudropāna (small plinth)	..	..	1
(3)	Mahāmbuja (large cyma)	..	..	3
(4)	Kshudra-paṅkaja (small cyma)	..	..	$\frac{1}{2}$
(5)	Kampa-karṇa (fillet and ear)	..	..	$\frac{1}{2}$
(6)	Kampa-padma (fillet and cyma)	..	..	1
(7)	two Kapotas (dove-cots)	..	..	2
(8)	Gala (dado)	..	..	1
(9)	Prati-vājana (fillet)	..	..	1
(10)	Gala (dado)	..	..	$\frac{1}{2}$
(11)	Padma-kampa (cyma and fillet)	..	..	1
(12)	Paṭṭikā (band)	..	..	2
(13)	Gala (dado)	..	..	$\frac{1}{2}$
(14)	Vājana (fillet)	..	..	$\frac{1}{2}$
(15)	Kampa (fillet)	..	..	$\frac{1}{2}$
(16)	Padma (cyma)	..	..	$2\frac{1}{2}$
(17)	Kapota (dove-cot)	..	..	$2\frac{1}{2}$
(18)	Prati(ma) (fillet)	..	..	2
XV.—Ratna-bandha (281—296) :				
(a) 26 parts :				<i>Parts</i>
(1)	Janman (plinth)	..	..	$1\frac{1}{2}$
(2)	Kshudra-vājana (small fillet)	..	..	$\frac{1}{2}$
(3)	Vapra (cavetto)	..	..	1(?3)
(4)	Padma (cyma)	..	..	1
(5)	Āsana (seat)	..	..	1
(6)	Ratna-vapra (jewelled cavetto)	..	..	$4\frac{1}{2}$
(7)	Kampa (fillet)	..	..	$4\frac{1}{2}$
(8)	Nimna (drip)	..	..	$\frac{1}{2}$

				<i>Parts</i>
(9) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(10) Abja (cyma)	..	..	..	$\frac{1}{2}$
(11) Ratna-kampa (jewelled fillet)	..	..	..	2
(12) Kampaja (fillet)	..	..	..	$\frac{1}{2}$
(13) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(14) Kandhara (dado)	..	..	..	2
(15) Kampa padma (fillet and cyma)	..	..	..	1
(16) Ratna-paṭṭa (jewelled fillet)	..	..	..	1
(17) Padma-kampa (cyma and fillet)	..	..	..	1
(18) Karṇa (ear) ..	..	..	..	$1\frac{1}{2}$
(19) Vājana (fillet)	..	..	..	$\frac{1}{2}$
(20) Abja (cyma)	..	..	..	$\frac{1}{2}$
(21) Kapota (dove-cot)	..	..	..	2
(22) Āliṅga (fillet)	..	..	..	$1\frac{1}{2}$
(23) Prati-vājana (fillet), the remainder.				

This part is adorned with the carvings of snakes and sharks, etc., and all other parts are decorated with jewelled lotuses. This base should be made in the temples of Śiva and Viṣṇu (lines 307-309).

XVI.—Paṭṭa-bandha (297-304) :

26 parts :

				<i>Parts</i>
(1) Janman (plinth)	..	..	..	2
(2) Vājana (fillet)	..	..	..	$\frac{1}{2}$
(3) Mahābja (large cyma)	..	..	..	$2\frac{1}{2}$
(4) Padma-kampa (cyma and fillet)	..	..	..	1
(5) Nimna-kampa (drip and fillet)	..	..	..	1
(6) Padma (cyma)	..	..	..	1
(7) Mahā-paṭṭa (large band)	..	..	..	2
(8) Padma-kampa (cyma and fillet)	..	..	..	1
(9) Kandhara (dado)	..	..	..	1
(10) Kaṣhepaṇa-abja (projection and cyma)	..	..	..	5
(11) Kapota (dove-cot)	..	..	..	2
(12) Prati-vājana (fillet), the remainder.				

This is adorned with all ornaments (line 318).

XVII.—Kaksha-bandha (305-346) :

(a) 18 parts :

				<i>Parts</i>
(1) Janman (plinth)	..	..	..	2
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Mahāmbuja (large cyma)	..	..	..	$2\frac{1}{2}$
(4) Padma-kampa (cyma and fillet)	..	..	..	1
(5) Nimna (drip)	..	..	..	1



				<i>Parts</i>
(6) Antarita (fillet)	..	..	..	1
(7) Prati (fillet)	..	..	..	$\frac{1}{2}$
(8) Vājana (fillet)	..	..	..	1
(9) Kandhara (dado)	..	..	..	1
(10) Kampa-padma (fillet and cyma)	..	..	..	1
(11) Vṛitta-kumbha (round pitcher)	..	..	..	2
(12) Padma-kshepaṇa (cyma and projection)	..	..	..	1
(13) Karṇa (ear)	..	..	..	1
(14) Kampa-padma (fillet and cyma)	..	..	..	1
(15) Kapota (dove-cot)	..	..	..	$1\frac{1}{2}$
(16) Vājana (fillet)	..	..	..	$\frac{1}{2}$

This is adorned with all ornaments, and sharks and snakes, etc. (line 328).

(b) 19 parts :

				<i>Parts</i>
(1) Janman (plinth)	..	..	..	1
(2) Padma (cyma)	..	..	..	$\frac{1}{2}$
(3) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(4) Mahāmbuja (large cyma)	..	..	..	2
(5) Padma-nimna (cyma and drip)	..	..	..	1
(6) Abja (cyma)	..	..	..	$\frac{1}{2}$
(7) Kumuda (astragal)	..	..	..	$1\frac{1}{2}$
(8) Abja (cyma)	..	..	..	$\frac{1}{2}$
(9) Karṇa (ear) ..	..	..	..	$\frac{1}{2}$
(10) Abja (cyma)	..	..	..	$\frac{1}{2}$
(11) Paṭṭikā (band)	..	..	..	$1\frac{1}{2}$
(12) Padma-kampa (cyma and fillet)	..	..	..	1
(13) Nimnaka (drip)	..	..	..	$\frac{1}{2}$
(14) Antarita (fillet)	..	..	..	$\frac{1}{2}$
(15) Prati (fillet)	..	..	..	1
(16) Vājana (fillet)	..	..	..	$\frac{1}{2}$
(17) Kandhara (dado)	..	..	..	1
(18) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(19) Padma (cyma)	..	..	..	$\frac{1}{2}$
(20) Kapota (dove-cot)	..	..	..	$1\frac{1}{2}$
(21) Vājana (fillet)	..	..	..	1
(22) Prati-bandha (fillet and band)	..	..	..	1

The rest should be as before and it should be decorated with all ornaments (line 340).

(c) 26 parts :

				<i>Parts</i>
(1) Janman (plinth)	..	..	..	1
(2) Kampa (fillet)	..	..	..	1

				<i>Parts</i>
(3) Kandhara (dado)	..	..	..	2
(4) Kampa (fillet)	..	..	..	1
(5) Padma (cyma)	..	..	..	1
(6) Kampa (fillet)	..	..	..	1
(7) Argala (bar)	..	..	..	1
(8) Kampa (fillet)	..	..	..	1
(9) Padma (cyma)	..	..	..	1
(10) Kapota (dove-cot)	..	..	..	2
(11) Prati-vājana (fillet), the remainder.				

Paṭṭa-kampa, Kapota, and the two Paṭṭas may be circular (line 348).

The parts of the two lower karnas are adorned with images of snakes, etc. (line 349).

(d) 24 parts :

				<i>Parts</i>
(1) Janman (plinth)	..	..	..	3
(2) Kampa (fillet)	..	..	..	1
(3) Nimna (drip)	..	..	..	1
(4) Bhadrās (projecting ornaments)	..	..	..	5(cach)
(5) Kampa (fillet)	..	..	..	1
(6) Nimnaka (drip)	..	..	..	1
(7) Antarita (fillet)	..	..	..	1
(8) Prati (fillet) ..	..	..	..	1
(9) Kampa (fillet)	..	..	..	1
(10) Kandhara (dado)	..	..	..	1
(11) Kampa (fillet)	..	..	..	1
(12) Padma (cyma)	..	..	..	1
(13) Kapota (dove-cot)	..	..	..	3
(14) Kandhara (dado)	..	..	..	1
(15) Prati (fillet)	..	..	..	1
(16) Kumbha (pitcher)	..	..	..	8

(? octangular).

There should be Bhadra-paṭṭa (front fillet) and Patra-paṭṭa (lea, fillet) in the Kapota part (line 359).

XVIII.—Kampa-bandha (347-358) :

36 parts :

				<i>Parts</i>
(1) Tuṅga (elevation)	..	..	..	4
(2) Kshudra-upāna (small plinth)	..	..	..	1
(3) Mahābja (large cyma)	..	..	..	5
(4) Kshudrābja (small cyma)	..	..	..	1
(5) Kampa (fillet)	..	..	..	1

				<i>Parts</i>
(6) Nimna (drip)	..	..	..	1
(7) Vājana (fillet)	..	..	..	1
(8) Padma (cyma)	..	..	..	1
(9) Kumbha-mahābja (pitcher and cyma)	..	..	..	5
(10) Abja (cyma)	..	..	..	1
(11) Kampa (fillet)	..	..	..	1
(12) Āliṅga (fillet)	..	..	..	1
(13) Antarita (fillet)	..	..	..	1
(14) Prati (fillet)	..	..	..	2
(15) Vājana (fillet)	..	..	..	1
(16) Kshepaṇa (projection)	..	..	..	1
(17) Kandhara (dado)	..	..	..	1
(18) Kampa (fillet)	..	..	..	1
(19) Padma (cyma)	..	..	..	1
(20) Kapota (dove-cot)	..	..	..	3
(21) Āliṅga (fillet)	..	..	..	1
(22) Prati (fillet)	..	..	..	1

## XIX.—Śri-kānta (359-372) :

36 parts :

				<i>Parts</i>
(1) Upāna (plinth)	..	..	..	3
(2) Kshudropāna (small plinth)	..	..	..	1
(3) Mahāmbuja (large cyma)	..	..	..	8
(4) Kshudrābja (small cyma)	..	..	..	1
(5) Kandhara (dado)	..	..	..	1
(6) Padma (cyma)	..	..	..	1
(7) Paṭṭikā (band)	..	..	..	3
(8) Kshudra-kampa (small fillet)	..	..	..	1
(9) Padma (cyma)	..	..	..	4
(10) Kshudrābja (small cyma)	..	..	..	1
(11) Nimna (drip)	..	..	..	1
(12) Padma (cyma)	..	..	..	1
(13) Kumbha (pitcher)	..	..	..	3
(14) Kampa (fillet)	..	..	..	1
(15) Kshepaṇa (projection)	..	..	..	1
(16) Kandhara (dado)	..	..	..	2
(17) Kampa (fillet)	..	..	..	1
(18) Padma (cyma)	..	..	..	1
(19) Kapota (dove-cot)	..	..	..	1
(20) Āliṅga (fillet)	..	..	..	1
(21) Prati (fillet)	..	..	..	1

This Śri-kānta is stated to be of four kinds (line 376) but only one type is illustrated.

In the kumbha-part it should be round or there should be paṭṭa (line 372). These should be constructed in the temples of Śiva and Viṣṇu (line 387).

Projections (lines 318-409) :

Projections are the peculiarities of the mouldings from the plinth to the crowning fillet :

Janmādi-vājanāntaim cha amśānām tad viśeshataḥ । (373)

These projections vary from being equal to one-fourth of the mouldings (lines 376-384) :

Tat-samaṁ nirgamaṁ vāpi tri-pādam ardhārdham eva cha ।

Tad-eva kshepaṇam sarve yathā-śobham tu kārayet ।

Upāna-tuṅga-samaṁ vāpi tat-pādana-vivardhanāt ।

Tuṅgena tri-vidhānām cha tri-pādam nirgamaṁ bhavet ।

Vaprochchaṁ tu samaṁ vāpi yāvat kumuda-nirgamam ।

Kumudochchaṁ vāpra-paṭṭāntam paṭṭikā-nirgamaṁ bhavet ।

Tat-samaṁ nirgamaṁ vāpi paṭṭam gopāna-nirgamaṁ ।

Kshudra-pañkaja-sarveshām tat-samaṁ nirgamaṁ bhavet ।

Yathā-śobham balāt sarvam aṅgānām sahito(-am) nyaset ।

These general rules are illustrated by giving in daṇḍa (rod) and hasta (cubit) measures the projections of some plinth (lines 402-409).

For a comparative study and general knowledge of the subject the details of the bases employed in early European architecture are given below. Each column has its particular base :

I.—Tuscan order (Gwilt, *Encycl.*, Art. 2555):

Base of the column 12 parts :

			Projection from the axis of column in parts of a module
(1) Fillet	..	.. 1	13½
(2) Torus	..	.. 5	16½
(3) Plinth	..	.. 6	16½

II.—Doric order (Art. 2565) :

Base of the column 12 parts :

			Projection
(1) Apophyge or congé	..	2	12
(2) Fillet	..	.. ¾	14
(3) Astragal	..	.. 1½	14½
(4) Torus	..	.. 4	17
(5) Plinth	..	.. 6 14	17

Grecian Doric :

Cornice—15·32 parts ; Entablature—Frieze 14·88 parts ;  
 architrave 17·10 parts ; Capital—11·16 parts.

Column (proper)—Shaft 20·30 modules ; 1st step or plinth  
 6·90 ; 2nd step or plinth 6·70 ; 3rd step or plinth 6·90.

III.—Ionic order (Art. 2573) :

Base of the column  $19\frac{1}{2}$  parts, excluding apophyge 2 parts and  
 projection 18 :

				Projection in parts of a module from axis of the column
(1) Fillet	..	..	$1\frac{1}{2}$	20
(2) Torus	..	..	5	$22\frac{1}{2}$
(3) Fillet	..	..	$\frac{1}{2}$	$20\frac{1}{2}$
(4) Scotia	..	..	2	20
(5) Fillet	..	..	$\frac{1}{2}$	22
(6) Two beads	..	..	2	$22\frac{1}{2}$
(7) Fillet	..	..	$\frac{1}{2}$	22
(8) Scotia	..	..	2	21
(9) Fillet	..	..	$\frac{1}{2}$	24
(10) Plinth	..	..	6	25

Grecian Ionic (art. 2581) :

Base of the column 33·27 parts :

(1) Apophyge	..	..	1·080	
(2) Fillet	..	..	0·450	18·960
(3) Bead	..	..	1·080	19·320
(4) Torus (horizontally fluted)	..	..	6·120	22·500
(5) Fillet	..	..	0·450	22·500
(6) Scotia	..	..	6·000	21·840
(7) Fillet	..	..	0·450	23·640
(8) Torus	..	..	5·760	24·960
(9) Plinth	..	..	11·880	26·520

IV.—Corinthian order (Art. 2582) :

Base of the column  $14\frac{1}{2}$  parts :

			Height in parts of a module	Projection in parts of a module
(1) Torus	..	..	3	22·
(2) Fillet	..	..	$\frac{1}{2}$	$20\frac{1}{2}$
(3) Scotia	..	..	$1\frac{1}{2}$	20
(4) Fillet	..	..	$\frac{1}{2}$	$21\frac{1}{2}$

		Height in parts of a module	Projection in parts of a module
(5) Two beads	..	1	22
(6) Fillet	..	$\frac{1}{4}$	$21\frac{1}{4}$
(7) Scotia	..	$1\frac{1}{2}$	$21\frac{1}{2}$
(8) Fillet	..	$\frac{1}{4}$	23
(9) Torus	..	4	25
(10) Plinth	..	6	25

V.—Composite order (Art. 2591) :

The base of the column 18 parts

			Height in parts of a module	Projection in parts of a module
(1) Congé	..	..	2	20
(2) Fillet	..	..	$1\frac{1}{4}$	20
(3) Torus	..	..	3	22
(4) Fillet	..	..	$\frac{1}{4}$	$20\frac{1}{4}$
(5) Scotia	..	..	$1\frac{1}{2}$	20
(6) Fillet	..	..	$\frac{1}{4}$	$21\frac{1}{4}$
(7) Bead	..	..	$\frac{1}{4}$	$21\frac{1}{4}$
(8) Fillet	..	..	$\frac{1}{4}$	$21\frac{1}{4}$
(9) Scotia	..	..	2	$20\frac{1}{2}$
(10) Fillet	..	..	$\frac{1}{4}$	23
(11) Torus	..	..	4	25
(12) Plinth	..	..	6	25

From the details given above it would be easy to understand and subscribe to the following remark :

‘ The Indian (pedestals and) bases are made more systematically, and afford by far a greater variety of proportions and ornaments than the Grecian and Roman. In the European architecture, the forms and dimensions of pedestals and bases are fixed by invariable rules, with respect to the orders in which they are employed, but in the Indian, the choice is left to the option of the artists.’—(Rām Rāz *Ess. Arch. of Hind.*, pp. 39-40 and see Plate II.)

ANANTA (see LUPĀ)—A kind of lupā or ‘ a sloping and projecting member of the entablature representing a continued pent-roof.’

Ambaraṅgā cha vyayaṅgā jyotir gaganāṅgā cha viḥāyasi ।

Anantaṅgā chāntarikṣāṅgā cha prastaraṅgā (? pushkalaṅgā) chāsh-  
ṭadhā lupāḥ ।—(*M.*, xvii, 174-175.)

ANU-GRIHA—The roof of a house.

Cf. Karṇa-kilāya-sambandho'nugrihaṅgā setuḥ—‘ The fastening of the roof of a house to the transverse beam by means of iron bolts is called Setu.’—(*Kaṇḍilya-Artha-sāstra*, Chap. LXV, p. 166.)

**ANU-ŚĀLĀ** (*cf.* ŚĀLĀ)—An ante-chamber, a hall or room behind or at the side of a main hall.

*Mānasāra*, xxvi : 9, 19, 23 :

- (a) Shoḍaśārnśakam ādhikyaṁ bhāgam harmya-viśālakam | (7)  
 Ekārnśaṁ karṇa-kūṭam syād dhārāntara(m) śivārnśakam | (8)  
 Dvi-bhāgenānu-śālā cha tad-ardham chāntarālakam | (9)  
 Saptārnśena mahā-śālā harmyam etat tu vinyaset | (10)
- (b) Athavāshṭādaśārnśe tu kūṭa-hārā cha pūrvavat | (16)  
 Shaḍ-bhāgena mahā-śālā chatuḥ-śālā tri-bhāgikam | (17)  
 Madhya-śālā yugārnśena bhadrā-śālā cha madhyame | (18)  
 Anuśālā cha madhye cha chaika-bhāgena bhadrakam | (19)
- (c) Ekona-viṁśad-ārnśena aṣṭa-bhūmi-viśālake | (21)  
 Ekaika-kūṭa-vistāraṁ mahā-śālā sarārnśakam | (22)  
 Anuśālā tri-bhāgā vā bhā(hā)rāntara(m) dvi-bhāgikam | (23)  
 Mahā-śālā tri-bhāgena bhadrā-śālā viśālatā | (24)

**ANEKA-LIŅGA** (*see* LIŅGA)—A class of the phallus, phalli in group as exist in many places.

Vedāraṁ vasvaśrakam vā vṛittam chaivam proktāneka-liṅga-  
 mūle |

Ekānekaṁ chokta-liṅge śivārnśe kuryād dhārā shoḍaśādi-dvayena |  
 (*M.*, LI, 128-129, 132-133.)

**ANILA-BHADRAKA**—A kind of chariot.

(*See M.*, XLIII, 114, under RATHA)

**ANTARA** (*see* ANTARITA)—Literally the distance between any two objects, hence it implies a moulding which separates two other larger mouldings. In this office it would resemble the fillet, listel or annulet (*see* Gwilt, Art. 2532, fig. 874). A moulding of the pedestal and the base.

Shaḍ-ārnśam chāntare karṇe uttarārnśam tad-ūrdhake |

(*M.*, XIII, 121.)

Purvottara-pradeśe tu kampanam chāntarārnśakam |

Dviṁśakam cha tri-paṭṭam syāt tad-ūrdhve chāntarārnśam bhavet |

(*M.*, XIV, 59-60.)

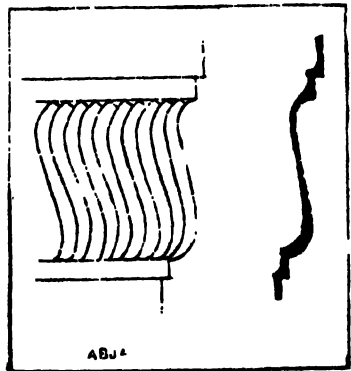
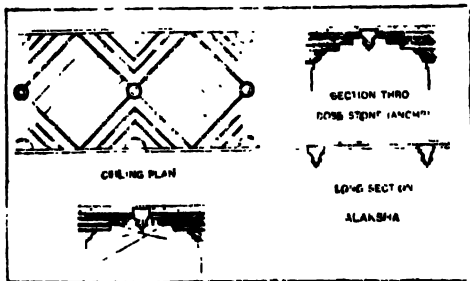
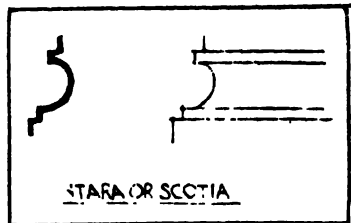
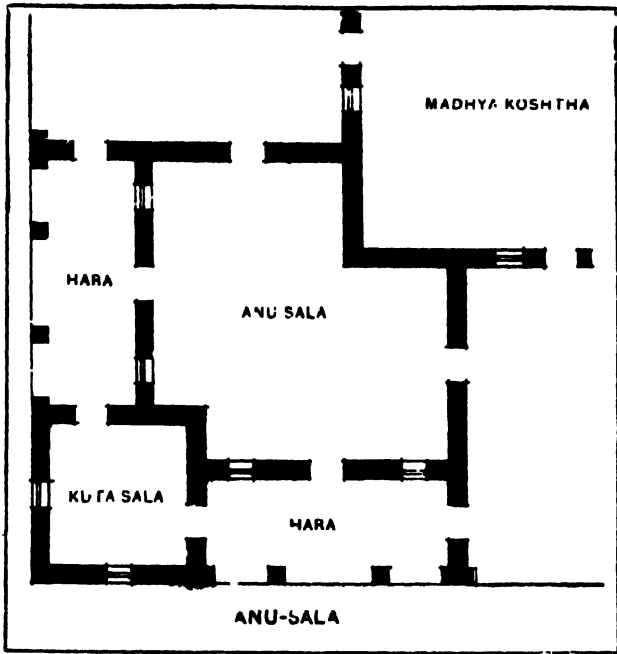
**ANTARĀLA(KA)**—The intermediate space, the interior ( - antarālaya), corridor.—(*M.*, XXIII, 39.)

(1) Intercolumnation :

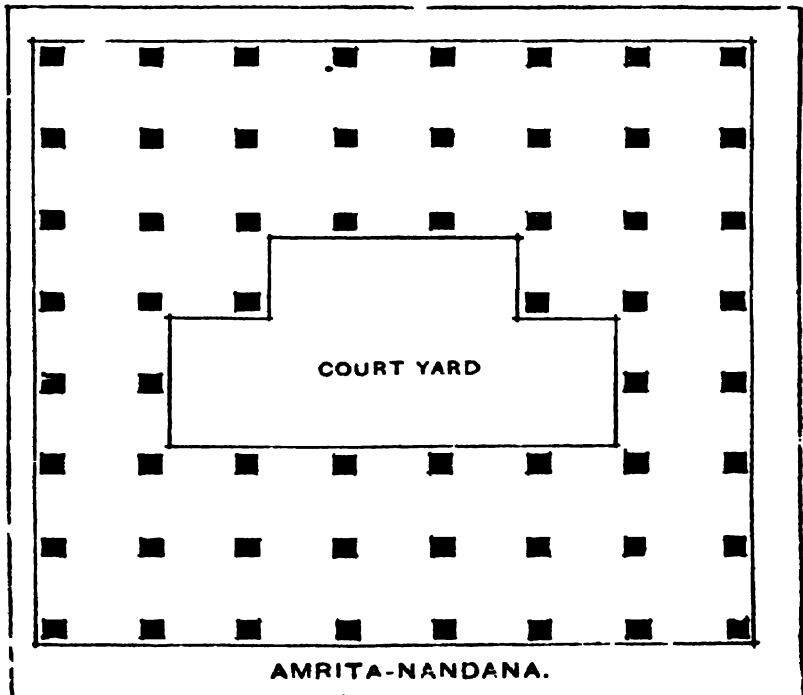
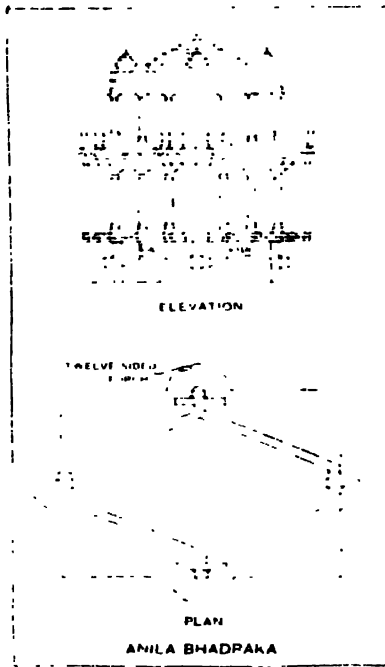
Mūla-pāda-viśālam vā tāt-tri-pāda-viśālakam |

Etat kumbhānghrikam proktam antarālam cha yojayet |

(*M.*, XV, 231-232.)







- (2) Referring to corridor of the fifth storey :

Tasmāt tri-mūla-harmyāntarāṃ tad-dvayor mūla-deśake ।  
Antarālaṃ prakurvīta pārśve sopāna-saṃyutam ।  
Sarva-pradakṣiṇaṃ kuryād yuktyā dvāraṃ prakalpayet ।

(*M.*, xxiii, 20-22, see also 23-39.)

- (3) Interior parts of a building :

Gopurair maṇḍapādyaiś cha chāntarāle tvalindake ।

(*M.*, lxix, 8, see also xxx, 60.)

- (4) 'The second maṇḍapa of a temple. between the ardha-maṇḍpa and the shrine, J. B.'

*Cf.* Gorakshakaṃ bhairavam āñjaneyaṃ Sarasvatīm Siddhi-vināyakaṃ cha ।

Chakāra pañchāyatanāntarāle bāleṇdu-mauli-sthita-manaso yaḥ ।

(Citra praśasti of the reign of Sarangadeva, v. 45, *Ep. Indic.*, Vol. 1, pp. 284, 276, note 15.)

- (5) ' In the antarāla (or interior), they erected a most beautiful raṅga-maṇḍapa, and a fine chandra-śāla (or upper storey) according to the directions given by the King Timmendra.'—(*Ep. Carnat.*, Vol. xii, Pāvugaḍa Taluq, no. 46, pp. 122 ; Translation, line 14, 203, Roman Text, v. 9.)

(6) ' An antarāla or intermediate porch—(Fergusson, quoted by Rice *Ep. Carnat.*, Vol. v, Part I, Introduc., p. xxxix, para. 2, line 6.)

- (7) Antarāle yathā yuktyā maṇḍapākāram vinyaset ।—(*M.*, xxiii, 39.)

#### ANTARIKSHA—A quarter.

Jayante tat-pare saumye antarikshe'ka-pūrvake ।—(*M.*, vii, 39.)

Mṛige chāvāntarikshe vā bhṛṅgarāja-mṛishe tathā ।—(*M.*, ix, 357.)

#### A synonym of the lupā or pent-roof :

Ambaraṃ cha vyayaṃ jyotir gaganam cha vihāyasi ।

Anantaṃ cha antarikshaṃ cha pushkalaṃ chāshṭadhā lupāḥ ।

(*M.*, xviii, 174-175.)

#### ANTARIKSHA-KĀNTA—A class of ten-storeyed buildings.

(*M.* xxviii, 14-15, see under PRĀLĀDA.)

ANTARITA—A fillet, a moulding of the pedestal, the base and also of the entablature. In base it is connected with another crowning moulding called āliṅga and in pedestal with prati-vājana. In its office and situation it would resemble a fillet. Its synonyms are—vājana, kshepaṇa, vetra, paṭṭa, uttara, paṭṭikā, kampa, dṛikka, and maṇḍa, etc.—(*M.*, xvi, 46-47.)

A crowning moulding of the pedestal and the base :

- (1) Tad-urdhve'ntaritam chāṁśam tat-samam prativājanam |  
Ekaṁ chāntaritam chordhve sār dhāṁśam prativājanam |

(M., XIII, 58, 69, etc.)

Āliṅgam aṁśakaṁ chaiva tat-samāntaritam tathā |  
Āliṅgam aṁśakaṁ chordhve aṁśenāntaritam tathā |

(M., XIV, 51, 101, etc.)

- (2) The tenth moulding from the top of the entablature.—(See *Kārikāgama*, LIV, 2, under PRĀSĀDA.)

(See Rām Rāz, *Ess. Arch. of Hind.*, p. 25-

ANTAR-JANMAN—An inner plinth.

Antarjanma bahirjanma nimnonnatayā sṭhitam ||  
Nirvaṁśameva tat sarvaṁ kartṭi-vaṁśam bhaved dhruvam |

(M., LXIX, 16, 17.)

ANTARITA-MANḌAPA—The ante-chamber in front of a shrine.

(Chalukyan Architecture, *Arch. Surv.*,  
New. Imp. Series, Vol. XXI, p. 37.

ANTAR-BHITTI—An inner wall, partition wall, etc.

Tan-māne tu sālānām vinā-bhittim sabhittikam |  
Antar-bhittis tu chaivaṁ syād bahir-bhittis tu sarvadā ||

(M., XL, 51, 52.)

ANTAR-MANḌALA—The circular court in the interior of a compound.

Antar-maṇḍalam ārabhya mahāmaryādikāntakam |  
Pañcha-kuṭ(d)yasya chotsedham pratyekaṁ pañchadhā bhavet |

(M., XXXI, 57-58.)

ANTAR-MUKHA—Literally, with face towards the inside.

Cf. Gṛiha-garbhāṁ (=foundations) antar-mukham syād grāma-garbhāṁ bahir-mukham |—(M., XII, 216.)

ANTAR-VAPRA—The internal rampart, the internal side of the rampart.

Cf. Antar-vapraṁ bahir-bhittis chesṭam dirgham cha chūlikā |

(M., IX, 362.)

ANTAR-VITHĪ—Internal roads, lanes, in a village or town.

Antar-vithi chaika-pakshā bāhya-vithi dvi-pakshakā |—(M., IX, 396.)

ANTAḤ-PURA—The female apartments.

(1) *Rāmāyaṇa* (Cock) :

II. 3, 13 : Antaḥ-purasya dvārāṇi sarvasya nagarasya cha ।

II. 14, 29 : Dadarśantaḥ-puram śrīmān nānā-dhvaja-gaṇāyutam ।

II. 14, 66 : Nirjagāma . . . sāgara-hrada-saṁkāsāt sumant-  
ro'ntaḥ-purāc chhubhāt ।

II. 15, 18 : Ityuktvāntaḥpura-dvāram ājagāma purāṇavit ।

V. . . 30 : Sa hema-jāmbu-nada-chakravālaṁ mahārha-muktāmaṇi  
bhūshitāntam ।

Parārghya-kālāguru-chandanārhaṁ sa Rāvaṇāntaḥpuram  
praviveśa ॥

II. 15, 47 : Saṁṛiddham antaḥpuram āvivesa ha ॥

Tatodri'-kūṭa-chala-megha-sannibhaṁ mahāvīmāno-  
pama-veśma-saṁyutam ।

VII. 42, 27 : Pūrvāhṇe dharmā-kāryāṇi kṛitvā dharmeṇa dharmā-  
vit ।

Śeṣhaṁ divasa-bhāgārdham antaḥpura-gato bhavet ॥

Compare also II, 10, 11-17 ; 70, 20 ; II, 70, 27 ; II, 114, 29 ; III, 54,  
13 ; IV, 26, 22 ; V, 4, 24.

(2) *Pañchatantra*, ed. Bombay, I, pp. 38, 58, 61, 168 :

Gatvā kanyāntaḥpure . . . rāja-kanyām . . . sapta-bhūmi-ka-  
prāsāda prānta-gatām . . . bhaja ॥

Iha rājñas tu tanayā Pāṭalīyasti kanyakā ।

Upanyantaḥ-pure sā cha ratnam ityabhirakshyate ॥

Praviśya so'driṣṭiṅgāgra-tuṅga-vātāyanena tām ।

Antaḥpure dadarśātha suptāṁ rahasi Pāṭalīm ॥

Pravrājakās cha gatvaiva vātāyana-pathena saḥ ।

Praviśyāntaḥ-puram prāpa suptāṁ niśi nṛipātmajām ॥

(3) ' When the great minister, Verggaḍe of the female apartments (antaḥpura), great master of robes ' . . . —(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq. no. 144, Transl., p. 107 ; Roman text, p. 191.)

ANTAḤ-HĀRĀ—The second inner court, internal enclosure in a temple or house, the whole compound being divided into five courts or enclosures.—(*M.*, xxxi, 11-14.)

(See under PRĀKĀRA.)

ANTAḤ-ŚĀLĀ—Inner rooms, internal portions of a mansion.

Antaḥ-śālā yathā-dvāram daṇḍakasyoktavat kuru ।—(*M.*, xxxv, 281.)

ANTAḤ-SĀLĀ—Inner wall, internal partition.

Antaḥ-sālam-iti prāktam bāhya-sālam-ihochyate ।

(*M.*, xl, 114, see also xxxvi, 79 ; xl, 44.)

ANTIKA—A class of the two-storeyed buildings.

(*M.*, xx, 94, 26-27, *see* under PRĀSĀDA.)

ANTIMA—Limit, boundary, pilaster terminating the side-wall of a temple, and having base and capital generally differing from those of adjacent columns, same as *prastara* (entablature or plinth).

Tad (=prati)-ūrdhve sārḍha-pañchāmsaṁ pādāyāmaṁ tṛtīyakam ।  
Antimaṁ cha dvi-bhāgaṁ syād vedikodayam Iritam ।

(*M.*, xxxiii, 226-227.)

ANYA-RAṄGA—The second court or theatre of a compound.

Maṇḍapaṁ nava-talaṁ kuryād bhavanam anya-raṅgaṁ vādhimaṇ  
ḍāpakāram ।—(*M.*, xi, 144.)

ANVANTA—A synonym of *mañcha* or a raised platform or couch.

(*M.*, xvi, 43, *see* under MAṆCHA.)

APACHCHĀYĀ—A light shadow.

(*See* AVACHCHĀYĀ.)

APASAMCHITA—A class of buildings in which the width (at the bottom) is the standard of measurement ; the temples in which the principal idol is in the recumbent posture.

Pratyekaṁ tri-vidhaṁ proktaṁ saṁchitaṁ chāpy-asamchitam upa-  
(apa)-saṁchitamityeva । (*Kāṁikāgama*, xlv, 6-7.)

Utsedhe mānaṁ gṛīhyaṁ chet sthānakaṁ tat prakathyate ।

Vistāre mānaṁ saṁkalpya chāsanaṁ tad udiritam ।

Pariṇāhe pāde vāpi mānaṁ śayanam Iritam ।

Āsanaṁ saṁchitaṁ proktaṁ sthānakaṁ syād asaṁchitam ।

Apasaṁchitaṁ śayanam chet tat tat tri-vidha-harmyake ।

(*M.*, xix, 7-11.)

Saṁchitāsaṁchitānāṁ cha arṁśair āyādibhir yutam ।

Āpasaṁchita-harmvāṇāṁ tithyantaṁ shaḍ grahishyate ।

(*M.*, xxx, 173-174.)

APOHA (*see* ŪHA)—An additional or unprescribed member attached to a structure.

ABJA (*see* PADMA)—A lotus, the cyma or 'a moulding taking its name from its contour resembling that of a wave, being hollow in its upper part and swelling below. Of this moulding there are two sorts, the cyma recta, just described ; and the cyma reversa

whercin the upper part swells, whilst the lower is hollow. By the workmen these are called "ogécs."

Compare the lists of mouldings given under *ADHISHTHĀNA* and *UPARĪṬHA*.

**ABJA-KĀNTA**—A class of the ten-storeyed buildings.

(*M.*, xxviii, 18, *see* under *PRĀSĀDA*.)

**ABHAYA**—Fearless, a refuge-offering pose of the hand of an image.

Chatur-bhūjam tri-netraṁ cha jaṭā-mukūṭa-bhūṣhitam |

Varadābhaya-samyuktaṁ kṛiṣṇa-parāṣu-dhāriṇam |

(*M.*, xii, 120-121.)

Abhayaṁ dakṣhiṇe . . .—(*M.*, vii, 159.)

Purve cha tvabhayam . . .—(*ibid.*, 166.)

Varadaṁ chābhayaṁ pūrve vāme tu dvāra-hastakam |

(*M.*, liv, 154.)

**ABHAYA-HASTA** (*see* *ABHAYA*)—With hand in the pose of offering refuge.

Varadābhaya-hastaṁ cha jaṭā-mukūṭa-maṇḍitam |—(*M.*, li, 30.)

**ABHISHEKA-MANḌAPA** (*see* *MANḌAPA*)—The coronation hall.

Nṛipāṇam abhishekārthaṁ maṇḍapam |—(*M.*, xxxv, 38.)

*See* Inscript. of Rajaraja III (no. 39, *H.S.I.I.*, Vol. iii, p. 86) under *MANḌAPA*.

**ABHYAVAHĀRA-MANḌAPA**—A dining-hall.

*See* Raṅganātha inscript. of Sundarapandya (v. 23, *Ep. Ind.*, Vol. ii, pp. 13, 16) under *MANḌAPA*.

**AMALAŚILĀ**—The crowning part of the (Hindu) śikhara.

(Fergusson, *History of Indian and Eastern Architecture*, p. 323, note; ii, p. 129.)

**AMALASĀRA** (*see* *ĀMALAKA*)—The flat scolloped cushion or cog-wheel member surmounting the śikhara (dome or tower).

(Cousens : *Somanath and other Medieval Temples in Kathiawad*, pp. 41, 45, 17.)

**AMRĪTA-NANDANA**—A pavilion with 58 pillars.

(*Matsya-Purāṇa*, Chap. cclxx, v. 8, *see* under *MANḌAPA*.)

**AMBARA**—The sky, one of the eight kinds of the lupā or pent-roof.

(*M.*, xviii, 174-175, *see* under *ANANTA*.)

*Cf.* Lupākārādi jaḍānāṁ mānayan mānavit-tamaḥ |

Ambarādyashṭadhāmāni niḍānāṁ lupamānayet |—(*M.*, xviii, 329-330.)

AMBUJA—Lotus, the cyma (*see* ABJA and PADMA).

*Cf.* Tad-dvayaṁ chāmbujaṁ chordhve kapotochchaṁ guṇāṁśaka ।

(*M.*, XIII, 57.)

(A)RAṄGA—A synonym of harmya (building).

Araṅgam iti chaitāni harmyam uktaṁ purātanaiḥ ।—(*M.*, III, 8.)

ARATNI (*see* under ANĠULA)—A measure.

(1) A cubit of 24 aṅgulas (Introduct., *Rājavallabha Maṇḍana and Brah-maṇḍana-Purāna*, I, VII, 99. *see* under ANĠULA).

A measure equal to the length of the forearms with the fingers fully stretched (*Suprabhedāgama*, XXX, 24, *see* under ANĠULA).

(2) A measure equal to the first with fully stretched fingers (*Suprabhedāgama*, XXX, 24, *see* under ANĠULA).

According to this *Āgama* (*ibid.*, v. 25) and the *Mānasāra* (II, 49) a measure of 24 aṅgulas is called kishku (hasta).

'This word (aratni), which primarily means 'elbow,' occurs frequently from the *Ṛig-Veda* onwards. (*R.-V.*, VIII, 80, 8; *A.-V.*, XIX, 57, 6; *Aitareya Brāhmaṇa*, VIII, 5; *Satapatha-Brāhmaṇa*, VI, 3, 1, 33, etc.) as denoting a measure of length (ell or cubit), the distance from the elbow to the tip of the hand. The exact length nowhere appears from the early texts.' (Macdonell and Keith, *Vedic Index*, I, 34.)

*Satapatha-Brāhmaṇa* also VII, 1, 2, 6.

Kausika-Sūtra, 85 (*Pet. Dict.*) : Bāhur vā aratniḥ ।

ARKA-KĀNTA—A class of the eleven-storeyed buildings.

Evam tu vajra-kāntaṁ syād arka-kāntam ihocyate ।

Tad eva śālā-prānte tu pārśve chaikena sausṭhikam ।

Tad-dvayor antare deśe tat-samaṁ kshudra-hārayoḥ ।

Pūrvavat kūṭa-vistāraṁ śeṣaṁ hārāṁśa-pañjaram ।

Tan-madhye tu tri-bhāgena kshudra-śālā-viśālataḥ(tā) ।

Tat-pārśve tri-tri-bhāgena hāra-madhye sa-bhadrakam ।

Kshudra-śālā-tri-bhāgena madhya-bhadraṁ samanvitam ।

Kshudra-hārā cha sarveshāṁ nāsikā-pañjarānvitam ।

Madhye madhye mahānāśi netra-śālā cha pārśvayoḥ ।

Sarvālāṅkāra-samyuktaṁ shaḍ-vidhaṁ (ekādaśa-talaṁ) parikīrtitam ।

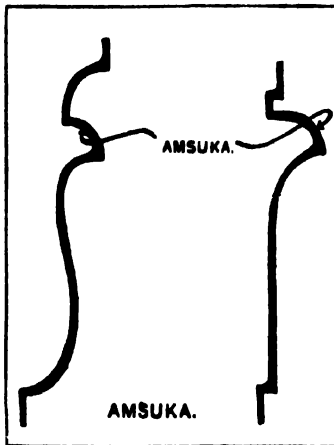
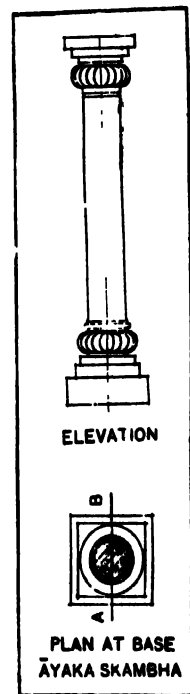
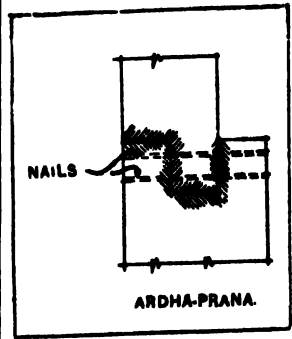
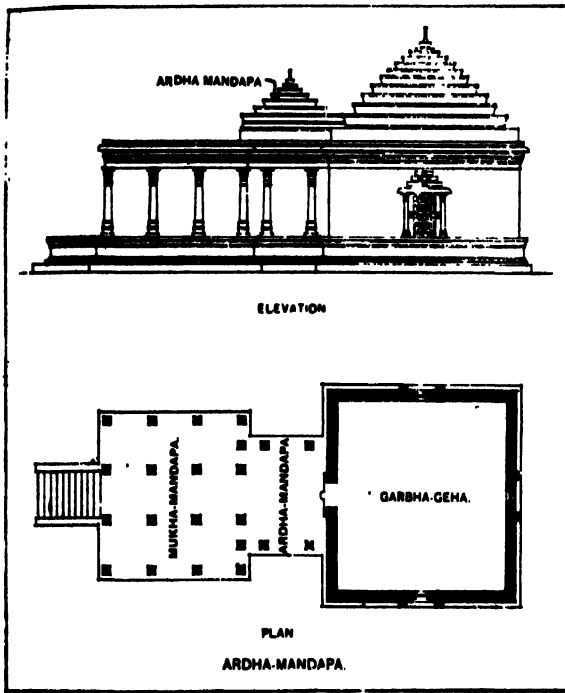
(*M.*, XXX, 25-34.)

ARGALA—A bolt or pin for fastening a door.

Argalaṁ dakṣhiṇe bhāge vāma-bhāge tu talpakam ॥

Kavāṭa-yugmaṁ kartavyaṁ kokilārgala-samyutam ॥

(*Kānikāgama*, LV, 49, 52.)







A moulding of the base (*see Kakshabandha*, under ADHISHṬHĀNA).

Kampam ekaṁ tad-ūrdhve cha ekenārgalam eva cha |

(*M.*, xiv, 331, notc.)

ARDHA-CHITRA (*see ĀBHĀSA*)—An image made in half or middle relief.

Ardhāṅga-dṛśyamānaṁ cha tad ardha-chitram iti smṛitam |

(*M.*, li, 10.)

Chitrāṅgam ardha-chitrāṅgam ābhāsāṅgaṁ tridhochyate |

(*M.*, li, 8.)

Sthāvaraṁ jaṅgaṁ vapi dāru-śailaṁ cha lohajam |

Chitraṁ vā chārdha-chitraṁ cha chitrābhāsam athāpi vā |

(*M.*, lvi, 14-15.)

ARDHA-NĀRĪŚVARA—A name of Śiva, an image the right half of which is the representation of Śiva and the left half of his consort Durgā.

Paśchima-mūla-tale madhye koṣṭhe liṅgam adbhutam |

Athavārdha-nārīśvara(m) sthānakam |—(*M.*, xx, 224-225.)

ARDHA-PRĀṆA (*see SANDHI-KARMA*)—A kind of joinery resembling the shape of the bisected heart.

Sarveśhāṁ api dārūṇāṁ sandheḥ prānte tu yojayet |

Yatheshṭaṁ phaṇa(m)-saṁgrāhyaṁ chodayed vistarāntakam |

Mūlāgre kilakaṁ yuktam ardha-prāṇam iti smṛitam |

Tad eva dvi-lalāṭe cha vistārārdhārdha-chandravat |

Madhye cha danta-saṁyuktam agra-mūle tu yojayet |

Śeṣaṁ tu pūrvavat kuryāt mahāvṛitam iti smṛitam |

(*M.*, xvii, 97-102.)

ARDHA-MANḌAPA—A half-pavilion, a vestibule, a court, a porch.

(1) Idam āyādikāṁ chārdha-manḍape śiṣṭa-manḍape ||

(*Kāṁikāgama*, I, 68.)

Ardha-manḍapa-dakṣhāṁśe vighneśa-nṛitta-rūpiṇam |

(*ibid.*, lv, 79.)

(2) 'On the west wall of the ardha-manḍapa in front of the rock-cut Jambukeśvara shrine at Tiruvellarai.'—(Inscription no. XII, *Ind. Ant.*, Vol. xxxiv, p. 268.)

(3) The 'court in a temple next to the sacred shrine.' Winslow, *Tamil Dictionary (loc. cit.)*.

(4) <sup>1</sup> Ardha-maṇḍapa : the enclosed building in front of a shrine.<sup>1</sup>

(*Chalukyam Architecture, Rea, Arch. Surv.,  
New. Imp. Series, Vol. XXI, p. 37.*)

The detached building, sometimes open and sometimes enclosed, in front of a shrine, is generally called the mukhamāṇḍapa (the pavilion in front of the shrine).

(5) The ardha-maṇḍapa is 'a narrow passage or vestibule connecting' the garbha-gṛiha and mukha-maṇḍapa, and 'is open on two sides to permit the priestly worshipper circumambulating the central shrine.'

(H. Krishna Śāstri, *South Indian Images of Gods and Goddesses*, p. 2. For this reference I am indebted to Prof. R. W. Frazer.)

**ARDHA-ŚĀLĀ**—A half-hall, an antechamber with one or more closed sides.

Ardha-śālā viśeṣo'sti chordhva-śālā-śamanvitam |

Madhya-koshṭham dvi-pārśve tu chārdha-śālā-samanvitam |

(*M.*, xx, 67, 73.)

Netra-śālārdha-śālā cha bhadrā-śālādi-bhūṣitam |—(*M.*, xxvi, 67.)

Bhadrā-śālā mahā-nāśi chārdha-śālādhyalaṅkṛitam |—(*M.*, xxv, 34.)

**ARDHA-HĀRA**—A half chain of 64 strings, an ornament, a string of pearls worn round the neck.

Nakshatra-mālām api chārdha-hāram |

Suvarṇa-sūtram paritaḥ stanābhyām |—(*M.*, I, 297-298.)

*Cf. Brihat-Saṁhitā*, I, xxxii, 32.

**ALAKSHA**—A member of the entablature, some screen-work with small (invisible) apertures.

Etat tu sarvato-bhadram alakṣhākṛiṭir ihochyate |

Tad eva karṇavaśād varṣam prastiryāt tu sarvaśaḥ |

Uttaraiḥ prāg-uktāṅghriḥ syāt tad-vaśāt parito nyaset |

Tad evāntam alakṣham cha karṇayoś chottaram vinā |

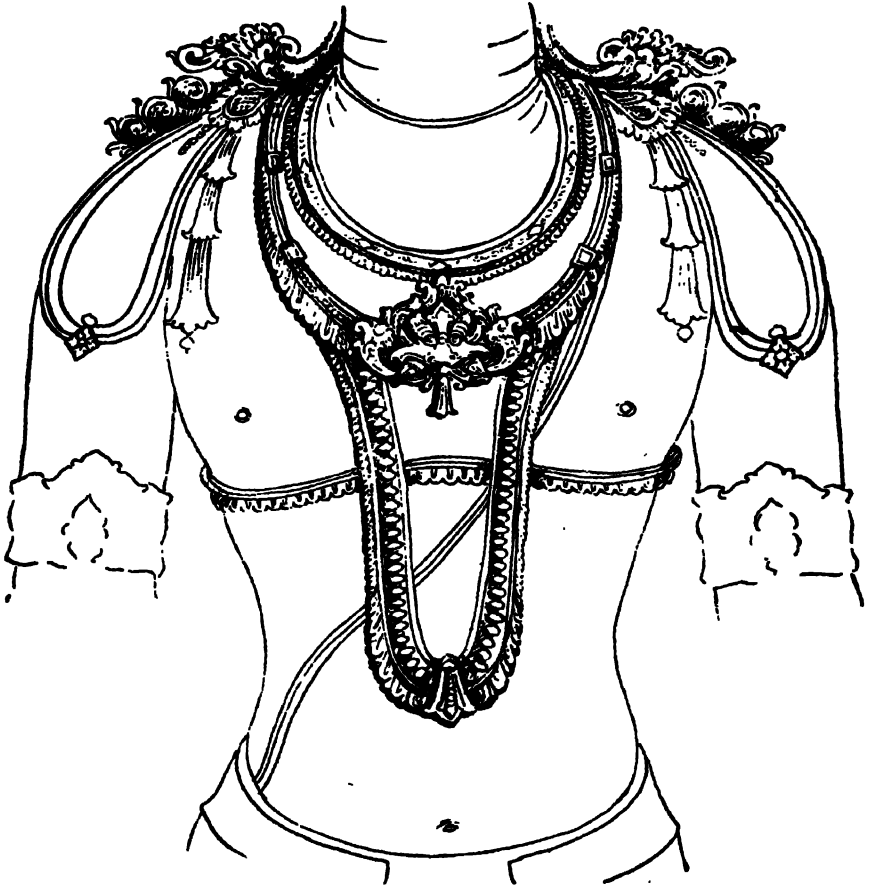
(*M.*, xvi, 185-188.)

**ALAṅKĀRA-MANḌAPA**—The dressing room, an attached hall or detached pavilion of a temple where the idols are dressed.

(*H. S. I. I.*, Vol. I, p. 127, first para., see under MANḌAPA.)

**ALINDA(KA)**—A corridor, a terrace, a balcony, a gallery.

(1) 'Alinda-śabdena śālā-bhitter bāhye yā gamanikā jālakāvritāṅgaṇa-sammukhā kriyante' (commentary on *Brihat-Saṁhitā* or *Kīraṇa-tantra*, see





below). By the word 'alinda' is understood the lattice-covered path beyond the wall of a hall and facing (or in front of) the courtyard. Cf. *Amarakōsha* (2, 2, 12).

(2) Senāpati-nṛipatīnām sapṭati-sahite dvidhā-kṛite vyāse ।  
Śālā-chatur-daśa-hṛite pañcha-triṃśad-vṛite '(a)lindaḥ ॥

'Add the number of 70 to those for the breadth of the mansions of the King and the Commander-in-Chief.'

The same is more plainly expressed in *Vīśvak* :

'Write down the sum at two places. Divide it, in one place, by 14; this gives the measure for a hall. Divide the sum by 35; the quotation is the measure of the terrace.'

Pramitaṃ tveka-śālaṃ tu śubhadaṃ tat prakīrtitam ।

Senāpāti-nṛipādīnām sapṭatyā sahite kṛite ॥

Vyāse chaturdaśa-hṛite śālā-mānaṃ vinirdiśet ।

Pañcha-triṃśad-hṛite'nyatrālinda-mānaṃ bhavech cha tat ॥

'The word might as well be rendered by balcony, gallery.'

(Kern, *Brihat-Saḥsriā*, LM, 17; *J.R.A.S.*,  
N. S., Vol. VI, p. 282, note 3.)

Apratishiddhālindaṃ samantato vāstu sarvato-bhadraṃ ।

'An edifice with uninterrupted terraces on every side is termed Sarvato-bhadra.'

Nandyāvartam alindaiḥ śālā-kuḍyāt pradakṣiṇāntargataiḥ ।

'Nandyāvarta is the name of a building with terraces that form the wall of the room extending to the extremity in a direction from east to south (alias from left to right).'

'The Vardhamāna has a terrace before the (chief) entrance, extending to the end; then, when you proceed in a direction from left to right, another beautiful terrace, and there on, again, another in the aforesaid direction.'

'The Svastika (house) is auspicious, if it has the terrace on the east side, and one continual terrace along the west side, at the ends whereof begin two other terraces going from west to east, while between the extremities of the latter lies a fourth terrace.'

'The Ruchaka (house) has a western and eastern terrace running to the end, and between their extremities two others.'—(*Ibid.*, vv. 31-35, pp. 285-286.)

(3) *Agni-Purāṇa*, Chap. CVI, vv. 20-24 :

Chatuḥ-śālaṃ tri-śālaṃ vā dvi-śālaṃ chaika-śālakam ।

Chatuḥ-śāla-gṛihāṇāṃ tu śālālindaka-bhedātaḥ ॥

Sata-dvayam tu jayante pañchāsat-pañcha teshvapi |  
 Tri-śālāni tu chatvāri dvi-śālāni tu pañchadhā ||  
 Eka-śālāni chatvāri ekālindāni vachmi cha |  
 Ashtā-vimśad-alindāni gṛihāpi nagarāpi cha ||  
 Chaturbhiḥ saptabhiś chaiva pañcha-pañchāśad eva tu |  
 Shaḍ-alindāni vimśaiva ashtābhir vimśa eva hi ||  
 Ashtālindam bhaved evam nagarādaḥ gṛihāpi hi |

(4) *Kāmikāgama*, xxxv :

Āsām (= śālānām) agre tu alindā(h) syuḥ pradhāne vā viśeshataḥ |  
 Eka-dvi-tri-chatush-pañcha-shaḍ-saptālinda-samyutaḥ || (37)  
 Pṛishṭhe pārīve tathaiva syuḥ ishṭa-deśe'thavā punaḥ |  
 Pṛithu-dvāraś cha dvārāś cha evam eva prakalpayet || (38)  
 Alindaḥ pṛithu-dvāreṇa samo vā chārdha-mānataḥ || (44)  
 Alinde dvāram evam syād anyatrāpy-evam eva tu || (49)  
 Alindasya samantāt tu bhāgenaikena-vārakam || (77)

See also *ibid.*, L, 74, 75, 87.

*Ibid.*, LV, 201 (the synonyms of alinda).

. . . āndhāram gṛiham ādyakam |

Parimaṇḍaṇa(m) sāliṇḍa vā alindasyābhidānakam ||

(5) Chāntarāle tvalindake |—(*M.*, LXIX, 8.)

Urdhvordhva-talānam tu chaika-bhāgenālindakam |

(*M.*, xxiv, 45, etc.)

(6) See the views of the corridors (Pallaba Architecture, *Arch. Surv.*, New. Imp. Series, Vol. xxxiv, plates VI, VII, VIII, IX.)

ALPA—A class of buildings.—(*Kāmikāgama*, XLV, 53-54, see under MĀLIKĀ.)

ALPA-NĀSIKA (see NĀSĀ)—A small nose, a small vestibule.

Chatur-dikshu chatur-dvāram chatuh-shashṭy-alpa-nāsikam |

(*M.*, xxxiv, 106.)

AVACHCHHĀYĀ—A dim light, shadowless spot, a light shadow.

Kanyā-vṛishabha-māsau cha-avachchhāyā na vidyate |

Meshe cha mithunc chaiva tulā-simha-chatusṭaye |

Evam hi dvyāṅgulaṁ nyastam vṛiśchikāshāḍha-minayoḥ |

Chatur-āṅgulaṁ prakartavyam dhanuḥ-kumbhau shaḍ āṅgulaṁ |

Makare'shṭāṅgulaṁ proktam apachchhāyāṁ viśeshataḥ |

(*M.*, VI, 31-35.)

Cf. *Vitruvius*, Book IX, Chap. VIII, under ŚAN̄KU.

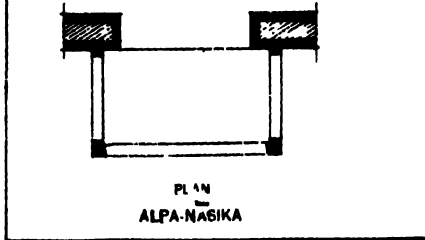
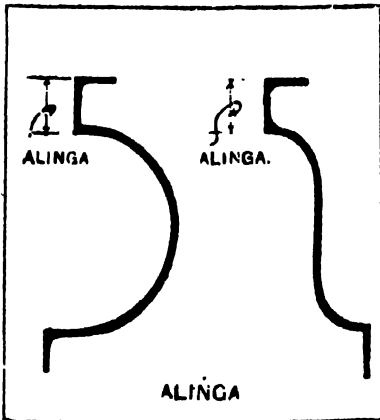
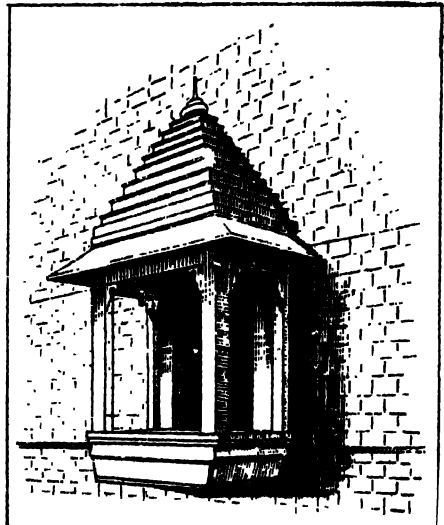
AVALAMBANA—A pendant.

Bāhu-valaya-dāma cha skandha-mālāvalambanam |—(*M.*, I, 15.)

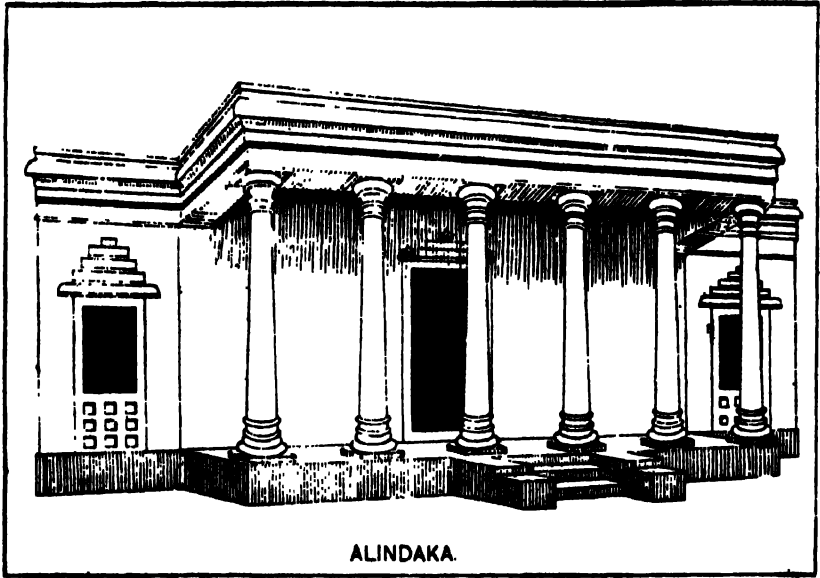
AVASATHA (see PRATISRAYA) the rest-house, a house.

Ramyāmasatham chaiva datvāmum lokamāśritaḥ |

'Having given away a charming house, he attained the other world.'—(*Hemadri*, p. 646.)







ALINDAKA.

Ramyāmi chāvasathān datvā dvijebhyo divam āgataḥ |  
 'Having given away charming houses to the twice-born and gone  
 to heaven.' (*Mbh. Anuśāsanika-parvan*, Chap. cxxxvii, v. 10).

(*Ind. Ant.*, Vol. XII, p. 142, c. 1-2.)

AVASĀNA (*see* MAṆCHA)—A synonym of the mañcha or a raised platform.—(*M.* xvi, 43.)

AŚVATTHA-VṚIKSHA—The holy fig-tree, carved along with Buddha images.

Referring to the Buddha images :

Sthānākam chāsanam vāpi simhāsanādi-saṁyutam |  
 Aśvattha-vṛiksha-saṁyuktam kalpa-vṛiksham tathā nyaset |

(*M.*, LVI, 3-4.)

ASHṬA-TALA—The eighth storey.

(*Mānasāra*, xxvi, 1-76, *see* under PRĀSĀDA.)

A description of the seventh floor including the proportion and ornaments of the component parts (*lit.* limbs) from the plinth to the tower :

Evam śreṣṭham tvashṭa-tale sarvālaṅkāra-saṁyutam |  
 Janmādi-stūpi-paryantam chāṅga-mānam ihochyate |  
 Saikāṣṭa-pañchakārmśa-harṁye tuṅgam vibhājite |  
 Ādhāram chāṣṭa-bhāgena vedāmsam charaṇāyatam |  
 Tad-ardham valabhyutsedham sardham vahnayamsam aṅghrikam |  
 Sa-tri-pādāmsakam mañcham ūrdhve pādām guṇāmsakam |  
 Tad-ardham chordhva-mañcham syāt tri-pādākshāṅghri-tuṅgakam |  
 Sa-pādāmsam prastarottuṅgam dvyardhāmsam charaṇāyatam |  
 Tad-ardham prastarotsedham jaṅghāyāmatam cha sardhakam |  
 Prastaram chaika-bhāgena dvyarṁśa-pādādhikāṅghrikam |  
 Urdhva-mañcham tri-pādām syāt sa-bhāgam pāda-tuṅgakam |  
 Ekāmsam prastarotsedham tad-ūrdhve cha tri-bhāgikam |  
 Tat-tri-bhāgaika(ā) vedim(h) syād dvi-bhāgam gala-tuṅgakam |  
 Sa-pādām chāmsakam chordhve śiraḥ-sesham śikhodayam |  
 Kechit tad eva tuṅge tu sapta-bhāgādhikam tathā |  
 Urdhvordhva-pāda-mūle tu yuktyāmsena masūrakam |  
 Talānām chaika-bhāgena karṇa-harṁyāvṛitam nyaset |  
 Antara(m) prastaropetam sarvālaṅkāra-saṁyutam |  
 Tasyāntasyaika-bhāgena kuryād āvartyāḷindakam |  
 Mūle bhāge pādāmsena chordhve'rdha-talāmsakam |  
 Nctra-śālārdha-śālā cha bhadra-śālādi-bhūṣhitam |  
 Torṇair nṛga-śālādi nāsikābhīr alaṅkṛitam |  
 Koṣṭ(h)c śālādi-madhye cha chordhva-śālā cha maṇḍitam |  
 Nāsikā-pañjara-śālā kūṭa-koṣṭhe tu bhūṣhitam |  
 Nāsikā-pañjarādyasya bhadra-śālyair alaṅkṛitam |  
 Kshudra-śālā-pradēc tu sarvālaṅkāra-saṁyutam |

Karṇa-kūṭāṅga-madhye tu nāsikā-pañjarānvitam ।  
Sarvāṅgaṃ kahudra-nāyaṅgaṃ prastarālaṅkṛiti-kriyā ।  
Nānādhibhāna-saṁyuktaṃ nānā-pādair alaṅkṛitam ।  
Nāgara-drāviḍādīnāṃ vesarādin śikhānvitam ।  
Sarvālaṅkāra-saṁyuktaṃ pūrvavat parikalpayet ।

(*M.*, xxvi, 47-76.)

**ASHṬA-TĀLA** (*see* under TĀLA-MĀNA)—A kind of sculptural measurement in which the whole height of an idol is generally eight times the face.

**ASHṬA-TRIMŚAT-KALĀ**—Thirty-eight kinds of mystic marks on the body of an image.

Pādādi-mūrdha-paryanta(m) paryāyādi-chāksharaṃ nyaset ।  
Aṣṭa-trimśat-kalāḥ sarvās tat-tad aṅgāni vinyaset ।

(*M.*, lxx, 90-91.)

**ASHṬA-VARGA**—The eight component parts of a single-storeyed building, namely, adhiśhāna (basement), aṅghri (dwarf pillar), prastara (entablature), grīva (a platform or neck), śikhara (tower) stūpi (dome), grīva-mañcha (a projecting seat at the neck) and vedikā (a raised platform).—(*M.*, xix, 80-85.)

**ASHṬĀŚ(S)RA**—Eight-cornered, a kind of single-storeyed building which is octangular in plan and has one cupola.

(1) *Bṛihat-Saṁhitā*, lvi, 28, Kāśyapa, *J.R.A.S.*, N. S., Vol. vi, p. 320, note 1 (*see* under PRĀŚĀDA).

(2) *Matsya-Purāṇa*, Chap. cclxix, vv. 29, 53 (*see* under PRĀŚĀDA)

(3) *Bṛhat-Saṁhitā*, Chap. cxix, v. 25 (*see* under PRĀŚĀDA).

**ASAMCHITA**—A class of buildings in which the height is the standard of measurement, the temples in which the main idol is in the erect posture.—(*M.*, xix, 7-11 ; xix, 173-174, *see* under APASAMCHITA.)

Pratyekaṃ tri-vidhaṃ proktaṃ saṁchitaṃ chāpyasaṁchitam upasaṁchitaṃ ityevam ।—(*Kāmikāgama*, xlv, 6-7.)

**AMŚA** (*see* SHADVARGA). A part, one of the six varga formulas for ascertaining the right proportion.

**AMŚARU**—The rim, the edge.

*Cf.* Darpaṇaṃ suvṛttaṃ syād amśaru kiṁchid unnatam ।

(*M.*, l, 117.)

**AMŚUKA**—A moulding of the pedestal, generally placed between a cyma and a corona (kapota).—(*M.*, xv, 122, *see* under UPARIṬHA.)

## Ā

**ĀCHĀRYA-KULA**—Residences of professors, sufficiently comfortable even for princes and ordinary male and female pupils to be in residence for instruction, teachers' family establishment with pupils' quarters in separate blocks. These might have supplied the general plan of the later monastic establishments of Buddhists, Jains, Brahmans, comprising a quadrangular structure with cells on all sides and the shrine and abbot's cell in the centre or the east. 'These may be looked upon as the beginnings out of which the pre-Buddhistic and Buddhistic centres of learning like in Nalanda of the residential university type were evolved.'—(Sarkar, *Social History of India*, p. 13.)

**ĀGAMA**—The scriptures, different from the Āgama treatises of Southern India some of which are predominantly architectural texts.

*Cf. M.*, XLIX, 176.

**ĀGĀRA**—A house, a room, a cell.

For synonyms, see *Amarakōsha* (II, 2, 5).

*Cf.* (1) *Rāmāyaṇa* (Cock) :

V. 3, 18 : Koshthāgārāvataṁśikām . . . nagarim |

II. 3, 44 : Koshthāgāra-yudhāgāraih kṛitvā saṁnichayān bahūn |

VI. 127, 56 : Aneka-śataṁ bhavān kośaṁ koshthāgāraṁ gṛihaṁ  
balaṁ |

(2) *Mahābhārata* (Cock) :

XII. 69, 54 : Bhāḍāgāra-yudhāgārān yodhāgārāṁś cha sarvaśaḥ |  
Aśvāgārān gajāgārān balādhikaraṇāni cha |

XII. 86, 121 : Bhāḍāgāra-yudhāgārān prayatnābhivardhayaḥ |

I. 134, 11 : Prekshāgāraṁ suvihitaṁ cakrus te tasya śilpinaḥ |  
Rājāṇaḥ sarvāyudhopetaṁ strīṇāṁ chaiva narar-  
shabha ||

I. 134, 14 : Mukta-jāla-parikshiptaṁ vaidurya-maṇi-śobhitam |  
Śāta-kumbhamayaṁ divyaṁ prekshāgāraṁ upāga-  
tam ||

IV. 23, 16 : Yad etan nartanāgāraṁ matsya-rājena kṛitam |  
Divyā-atra kanyā nṛityanti rātrau yānti yathāgṛi-  
ham ||

(3) *Mānasāra* (xxv, 29, etc.) :

Tale tale bhadra-koshthāśramāgāraṁ parikṛitam |

(4) Dharmma-śāstra-prachoditam yogi-(ā)gāram idaṁ proktaṁ suribhiḥ pariveshṭitam ।

‘Āgāra, abode, room, covered place, cell.’ Fleet.—(Skt. and Old Canarese Inscriptions, no. cxxx, line 3, *Ind. Ant.*, Vol. xii, p. 222, note 44.)

(5) Vikhyātā śāntalākhyā sā Jināgāram akārayat—‘The celebrated lady had this Jina temple made’.—(*Ep. Carnat.*, Vol. II, no. 62, Roman Text, p. 59, last line, Translation, p. 148, last line.)

ĀCHCHHĀDANA—A roof, the eighth covering moulding from the top of the entablature.

(*Kāmikāgama*, LIV, 2, see under PRAŚĀDA.)

ĀDIKA—Literally first or principal, ? a fast conveyance.

Ādikam syandanam śilpi(n) śibikā cha ratham tatha ।

Sarvair yānam iti khyātam śayanam vakshyate tathā ।

(*M.*, III, 9-10.)

Ā(R)DRA-PŪSHĀKRITI (see under LINGA)—A kind of phallus looking like the rising sun.

Līngākāram ihochyate . . .

Daivikam śiṇṇimākāram mānuṣ(am)ā(r)dra-pūshākṛiti(h) ।

(*M.*, LI, 237, 240.)

ĀDHĀRA—The basement, the plinth.

Dvitalānām alaṅkāraṁ vakshye saṅkshipyate’dhunā ।

Upānādi-stūpi-paryantam aśṭāvimsad vibhājite ।

Ādhārochcham guṇāmsam syāt pāda-tuṅgam śaḍ-amśakam ।

(*M.*, XX, 1, 3-4.)

Janmādi-stūpi paryantam chāṅga-mānam ihochyate ।

Sakṣaṣṭa-paṅchakāmsam harmye tuṅgam vibhājite ।

Ādhāram chāṣṭa-bhāgena vedāmsam charaṇāyatam ।

(*M.*, XVI, 48-50.)

Uttaram vājanādhāram ādheyam śayanam tathā ।

Uddhṛitam cha mūrdhakaṁ chaiva mahā-tauli svaramśakam ।

Prachchhādanasy(am) ādhāram etat paryāyam iritam ।

(*M.*, XVI, 56-58.)

Parimāṇa-virodhena rekhā-vaishamya-bhūshitā ।

Ādhāras tu chatur-dvāraś chatur-maṇḍapa-śobhitaḥ ॥

Śata-śiṅga-samāyukto Meruḥ prāsāda-uttamaḥ ।

Maṇḍapās tasya kartavyā bhadrās tribhir alaṅkṛitā(h) ॥

Ghaṭanākāra-mānānām bhinnā bhinnā bhavanti te (prāsādāḥ) ।

Kiyanto yeshu chādhārā nirādhārāś cha kechana ॥

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 38-40.)

Valabhī chhadirādhāraḥ ।

(Hemachandra, *Abhidhāna-chintāmaṇi*, 1011, *Pot. Dict.*)

ĀDHI—Foundations.—(An inscription from Dabhoi, v. m, *Ep. Indic.*, Vol. 1, p. 31, see footnote, p. 24.)

ĀNDOLA—A swing, a hammock.

Tad-ūrdhve paṭṭikām nyasya kilāgre cha kabandhanam ।  
Chaturbhiḥ śrīnkhalā-yuktam āndolaṁ chaikatopari ।  
Deva-bhū-sura-bhūpānām anyeshām śayanārthakam ।

(*M.*, XLIV, 69-71.)

ĀNDHĀRA (-RIKĀ)—A closed verandah, a balcony, a blind screen.

*Kāmikāgama*, I :

Pañjaro(ras) chārdha-bhāgo vā tri-pādo vātha bhāgikaḥ ।

Alindāndhārikāndhāra-hārā bhāgena kalpitāḥ ॥ (74)

Nava-bhāga-tri-bhāgo vā vyāsa-nāli-gṛihānviṭaḥ ।

Bahir āndhārikāndhāra-hārā bhāgena viṣṭitāḥ ॥ (76)

Pañchalīndam shaṭ-kuḍyam bahir āndhārikāvṛitam ॥ (83)

Āndhārāndhāri-hāroktā-khaṇḍa-harmya-viśeshitam (vimānam) ॥ (91)

'Āndhārika' and 'āndhāra' are used as the synonyms of 'griha-piṇḍi' and 'alinda' respectively (see *Kāmikāgama*, LV, 201, under ALINDA).

ĀPAṆA—A shop, a market-place.

(1) *Rāmāyaṇa* (Cock) :

II. 6, 12 : Nānā-panya-samṛiddheshu vaṇijām āpaṇeshu ।

II. 14, 27 Samṛiddhā-vipanāpaṇām . . . (purim) ।

II. 114, 13 Saṁkshipta-vipanāpaṇām (Ayodhyām) ।

VII. 43, 13 Chatvārāpaṇa-rathyāsu ।

II. 71, 41 Mālyāpaṇeshu rājante nādyā paṇyāni va tāthā ।

II. 42, 23 Samvṛitāpaṇa-vedikām . . . (purim) ।

II. 41, 21 Samvṛitāpaṇa-vīthikā ।

I. 5, 10 Su-vibhaktāntarāpaṇām . . . (purim) ।

II. 57, 15 Anvantarāpaṇam ।

VI. 112, 42 (Ayodhyām) sikta-rathāntarāpaṇām ।

VII. 101, 13 Ubhe (Takshasilā and Pushkalāvati) . . . suvibhaktāntarāpaṇe ।

(2) *Rājatarāṅginī*, I, 201, etc. : Ṛiddhāpaṇam . . . nagaram ।

(3) *Mahābhārata* (*ibid.*) :

XII. 86, 8 : Chatvarāpaṇa-śobhitam (puram) ।

XIII. 30, 17 : (Vārāṇasīm) . . . samṛiddha-vipanāpaṇām ।

II. 21, 25 : Mālyāpaṇānām cha dadriśuḥ śriyam uttamām ।

IX. 25, 33 : Viparyāpaṇa-paryānām ।

Comm. Nilkaṇṭha : Viparīṇḥ paṇya-vithikā ।

Āpaṇā haṭṭāḥ paṇyāni vikreya-dravyāṇi ।

(4) Vāpi-kūpa-taḍāga-kuṭṭima-maṭha-prāsāda-satrālayān ।

Sauvarṇa-dhvaja-toraṇāpaṇa-pura-grāma-prapā-maṇḍapān ।

. . . vyadhāpayad ayaṁ Chaulukya-chūḍāmaṇiḥ ।

(Śrīdhara's Deva pattana Praśasti, v. 10,

Ep. Ind., Vol. II, pp. 440-441.)

ĀPANA—A tavern, a liquor-shop, a watering station, huts on road-sides where drinking water is distributed gratis.

Devānaṁ-piye Piyadasi lājā hevaṁ āhā (:) magesu-pi me nigohāni lopāpitāni (:) chhāyopagāni hosaṁti pasumunisānaṁ ; ambāvaḍikyā lopāpitā (:) aḍhak(o)s(i)kyāni pi me uda-pānāni (2) khānāpitāni (:) niṁsidhiya cha kālāpitā (:) āpānān ime bahukāni tatā tatā kālāpitāni paṭibhogyāye pasu-munisānaṁ (.)

‘Āpāna cannot have here its usual meaning, namely, tavern, liquor shop.’

‘As professor Kern (*Der Buddhismus*, Vol. II, p. 385) assumes, it must denote a watering station. Probably the huts on the roads are meant, where water is distributed to travellers and their beasts gratis or against payment. The usual Sanskrit name is prapā.’ Dr. Bühler.

(Pillar edict of Asoka, no. VII, lines 2-3,

Ep. Ind., Vol. II, pp. 270, 274.)

ĀBHANĠA (*see* under ATIBHANĠA and BHANĠA)—A pose in which the idol is slightly bent.

Sarveshāṁ deva-devināṁ bhaṅga-manam ihochyate ।

Ābhaṅga-sama-bhaṅgaṁ chaati-bhaṅgaṁ tridhā bhavet ।

(M., LXVII, 95-96.)

ĀBHĀSA—A class of buildings, pavilions, doors, etc. One of the nine materials of which idols are made, sand glass, lacquer (M., LXII, 15-16), a marble, bas-relief (M., LI, 11), painting (*ibid.*, 12, LVI, 14-16).

A class of buildings :

(1) Etaj jāti-vaśāt proktaṁ chhandādīnāṁ śāntikotsedham ।

Nava-tale tri-paṅcha-vidhaṁ vai vipulaṁ kanyasādi-śreshṭhaṁ pravakshyate ।

Kramatas tri-pādam ardha-karaṁ pādam cha idaṁ saṁkalpam ābhāsam idam । (M., IX. 103-104.)

Eka-bhūmi-vidhiṁ vakshye lakṣhaṇaṁ vakshyate'dhunā ।  
 Jātiś chhandarṁ vikalpaṁ tu chābhāsaṁ tu chatur-vidham ।  
 Pūrva-hastena saṁ-yuktaṁ harmyaṁ jātir iti smṛitam ।  
 Chhandarṁ tri-pāda-hastena vikalpaṁ syāt tad-ardhakam ।  
 Ābhāsaṁ chārdha-hastena harmyādīnāṁ tu mānayet ।

(M., XIX, 1-5.)

Eka-tri-pādam ardhārṁ cha pāda-hastaṁ yathā-kramam ।  
 Jātiś chhanda(rṁ) vikalpaṁ cha-ābhāsaṁ chatur-vidham ।  
 Etat tad eva saṁyuktaṁ harmyāṇāṁ māna-kalpanam ।

(M., XXX, 175-177.)

Pavilions of some particular shape :

Devānāṁ bhū-surāṇāṁ cha maṇḍapaṁ jāti-rūpakam ।  
 Bhūpānāṁ maṇḍape sarve chhanda-rūpam itiritam ।  
 Vaiśyakānāṁ tu sarveshāṁ vikalpaṁ cheti kathyate ।  
 Śudrāṇāṁ maṇḍapaṁ sarvaṁ chābhāsam iti kirtitam ।

(M., XXXIV, 547-550.)

In connexion with doors :

Sapta-vimśodayaṁ hy-evam tad-ardhaṁ viśṛitaṁ bhavet ।  
 Evaṁ jāti-vaśāt proktaṁ chhandādīnāṁ pravakshyate ।  
 Trayoviṁśa-śatāntaṁ syāch chhanda-dvāra-viśālakam ।  
 Pañcha-vimśāṅgulam ārabhya dvi-dvyaṅgula-vivardhanāt ।  
 Eka-vimśāṅgulam ārabhya dvi-dvyaṅgula-vivardhanāt ।  
 Eka-vimśa(rṁ)-śatāntaṁ syād vikalpa-dvāra-viśṛitam ।  
 Nava-paṅktyaṅgulam ārabhya dvi-dvyaṅgula-vivardhanāt ।  
 Eka-paṅktyaṅgulādihikyaṁ śatāntam ābhāsa-viśṛitam ।

(M., XXXIX, 28-35.)

In connexion with the phallus :

Jāti-chhanda-vikalpaṁ cha-ābhāsaṁ tu chatur-vidham ।

(M., LII, 49.)

A kind of glass of which idols and statues are made :

Brahmā-viśṇu-maheśānāṁ lakṣhaṇaṁ vakshyate'dhunā ।  
 Hiranya-rajatenaiva tāmreṇaiva śile vāpi ।  
 Dārve vā sudhe vāpi śarkarābhāsa-mṛittikā(-bhiḥ) ।  
 Etaś tu navadhā dravyai(ś) chottamādi trayam trayam ।  
 Chalaṁ chāpy-achalaṁ chāpi nava-dravyaiś tu nirmūtaḥ ।  
 Lohajair mṛit-sudhā chaiva śarkarābhāsa-mṛittikā ।  
 Chala-dravyam iti proktaṁ anyeshāṁ chāchalaṁ viduḥ ।

(M., LI, 1-7.)



## Three kinds :

Chitrāṅgam ardha-chitrāṅgam ābhāsāṅgam tridhocyate |  
 Sarvāṅgam dṛśīya-māṅgam yat chitram evaṁ prakathyate |  
 Ardhāṅga-dṛśīyamāṅgam cha tad ardha-chitram iti smṛitam |  
 Ardhārdha-darśanaṁ (dṛśīya)-māṅgam ābhāsam iti kathyate |

(M., LI, 8-11.)

Uttamaṁ lohajaṁ bimbaṁ piṭhābhāsaṁ tu chottamaṁ |

(ibid., 19.)

Cf. Eka-kāle kṛitaṁ sarvaṁ sudhā-mṛit-kaṭa-śarkaraiḥ |

(ibid., 24-25.)

Berāṇāṁ dravyam ityuktam . . . lohaje vā śile'thavā |  
 Dārvābhāsa-ratnena sudhā-mṛit-kaṭa-śarkarā(aiḥ) |  
 Ghaṇaṁ vāpy-aghanaṁ vāpi kuṛyāt tu śilpi(a)vit-tamaḥ |

(M., LXII, 15-17.)

- (2) Śilodbhavanāṁ v(b)imbānāṁ chitrābhāsasya vā punaḥ |  
 Jalādhivāsanaṁ proktaṁ vṛishendrasya prakṛititam ||

(Linga-Purāṇa, Part II, uttara-bhāga,  
 Chap. XLVIII, v. 43.)

- (3) Pratimā saptadhā proktā bhaktānāṁ śuddha-vṛiddhaye |  
 Kāñchani rājatī tāmri pārthivi śailajā smṛitā ||  
 Vārksī chālekhyakā veti mūrti-sthānāni sapta vai |

'Ālekhyaka' and 'ābhāsa' seem to have the same meaning and indicate the same material.—(Bhaviṣya-Purāṇa, Chap. cxxxi, vv. 2, 3.)

- (4) Indhanāni cha vinyasya palālāni cha vinyaset |

Tasmin loṣṭāni vinyasya palālāiś chhādayet punaḥ ||

Palālābhāsakaiḥ paśchād brīhyābhāsais tushais tathā |

Āchchhādyādbhir aha siñchech chhākhāṁ prajjvālayet punaḥ ||

(Vāstu-vidyā, ed. Ganapati Śastri, xvi, 32-33.)

- (5) Another class of buildings :

(Jāti) Chhandaṁ Vikalpam Ābhāsam ekaike tu dvisaṅkhyakam |

(Kāṁikāgama, I, 13.)

A class of kūṭa-koshṭha or top-room, being a combination of the chhanda and vikalpa classes (Kāṁikāgama, LV, 130, 123-127, see under KARṆA-KŪṬA).

- (6) Sup.abhedāgama, xxiv, 3-4 (refers to the image of Ívara) :

Chitram chitrārdham evaṁ tu chitrābhāsaṁ tathaiva cha |

Sarvāvayava-saṁpūrṇaṁ dṛśīyaṁ tach chitram uchyate ||

Ardhāvayava-saṁdṛśīyam ardha-chitram chaiva cha |

Paṭe bhittau cha yo(ya) likhyaṁ chitrābhāsam ilochyate ||

Exactly similar definitions are given in the *Mānasāra*, but therein 'ābhāsa' refers to a material of which an idol is made, whereas in this Āgama, 'ābhāsa' refers to the image itself made in full, middle or quarter relief, and to the paintings made on cloth and walls.

Materials of which images are made :

- Mṛiṇmayam yadi kuryāch chech chhūlana(m) tatra prakalpayet ।  
Lohajam cha viśeṣeṇa madhūchchhishṭena nirmitam ।---(*ibid.*, 31.)
- (7) Lohajate madhūchchhishṭam agninārdrikṛitas tu yat ।  
Vastreṇa śodhayet sarvaṁ doṣaṁ tyaktvā tu śilpinā ॥  
(*Karaṇāgama*, xi, 41.)
- (8) Mūrtis tu vṛikṣa-pāshāṇa-loha-dravyaiḥ prakārayet ।  
The image should be made of materials like timber, stone, and iron.  
(*Śilpa-śāstra-sāra-saṅgraha*, xi, 5.)
- (9) Sauvarṇī rājatī vāpi tāmri ratnamayī tathā ।  
Sailī dārumayī chāpi loha-sisa-mayī tathā ।  
Ritikā-dhātu-yuktā vā tāmra-kāmsa-mayī tathā ।  
Sudhā-dāru-mayī vāpi devatārchā praśasyate ॥  
(*Matsya-Purāṇa*, Chap. CCLVIII, vv. 20-21.)
- (10) Mṛiṇmayī dāru-ghaṭitā lohajā ratnajā tathā ॥  
Śailajā gandhajā chaiva kaumudī saptadhā smṛita ।  
Kāmsamayī gandhajā chaiva mṛiṇmayī pratimā tathā ॥  
(*Agni-Purāṇa*, Chap. XLIII, vv. 9-10.)
- (11) Mṛiṇmaye pravibimbe tu vaset kalpa-yutaṁ divi ।  
Dāru-pāshāṇa-dhātūnāṁ kramād daśa-guṇādhikam ॥  
Mṛiṇmaye vāhane datte yat phalaṁ jāyate bhuvī ।  
Dāruje tad-daśa-guṇaṁ śilāje tad-daśādhikam ॥  
Ritikā-kāmsa-tāmrādi-nirmite deva-vāhane ।  
Datte phalam āpnoti krānāt śata-guṇādhikam ॥  
(*Mahānirvāṇa-Tantra*, xiii, 22, 30, 31.)
- (12) Svarṇādi-lauha-bimbe cha dcha-garbhaṁ na karāyēt ॥ (4)  
Kāshṭha-pāshāṇa-bimbe cha yat sandhau vidhir uchyate ॥ (6)  
Yat bimbe cha kṛite dravyaṁ svarṇaṁ tāmraṁ tu mṛiṇmaye ।  
Saile kāshṭhe ishṭikā-chūrṇaṁ bimbaṁ tatra prachakshate ॥ (3)  
(*Bimbamāna*, British Museum, MS. 1, 558, 592, vv. 4, 6 ; MS. 2, 5291, 559, v. 3.)
- (13) 'Here they produced a liṅga, of seven metals, viz. gold, silver, tin, lead, copper, iron and bell-metal.' - (Sahyādri-khaṇḍa of the *Skanda-Purāṇa*, *Ind. Ant.*, Vol. III, p. 194, c. 1, last para.)

*Cf.* ‘Again, when the people make images and chaityas which consist of gold, silver, copper, iron, earth, lacquer, bricks, and stone, or (? and) when they heap up the snowy sand (lit. sand-snow, ? ābhāsa), they put in images or chaityas two kinds of śarīras (relics)—(1) the relics of the great Teacher, and (2) the gāthā of the chain of causation’.—(Itsing’s work, *Record of the Buddhist Religion*, Transl., Takakusu, p. 150, quoted by V. A. Smith. *Ind. Ant.*, Vol. xxxii, p. 175.)

**ĀMALAKA** (*cf.* **AMALĀŚITA** and **AMALASĀRA**)—A massive circular stone supporting a vase known as *kalaśa*. It figures as the crowning member of śikhara (tower), as the crown of the simulated roofs, and as the cushion-shaped portion of the capital of massive columns (of Aśoka and at Elephanta). In śikhara it has a structural purpose to serve, while in other places it is a mere ornament. It has been frequently referred to by Fergusson, Burgess, Hanell, Coomaraswamy and their followers, but rarely occurs in the *Silpa-śāstras* or other Sanskrit texts. The following line has been quoted by some writer from some text of the *Mayamata Silpa-śāstra* :

Tathāmalaka-pakvābhaṁ dīrgha-vṛittam cha golakam ॥

It is held that the term as referring to the crown of a temple ‘ must have arisen from a wrong rendering of the Chinese symbols O-mo-lo-ki-ko, describing the great vihāra at Buddha Gaya as Āmalaka.’

Free conjectures have thus been made by modern writers on its origin from the *āmalaka*, fruit or tree, or from lotus. A writer has referred to the matter in the *Calcutta Oriental Journal* (1934, Vol. 1, pp. 189-195) and accepts the lotus-theory because of its popularity as a Buddhist and Hindu symbol, and also because it fits in well as a part of the śikhara.

**ĀMALAKA-VANṬIKA-PITHA**—Chairs with many legs.

(*Mahāvagga*, vv. 10, 2.)

**ĀYA** (*see* under **ŚHAPVARGA**)—One of the six varga formulas for ascertaining the right proportion of measurement.

**ĀYAKA-SKAMBHA** (*see* under **STAMBHA**)—A sort of pillar built upon the rectangular projection from the dome and drum-like parts of the Mahāchaityas (of Amaravati and Nagarjunakonda). Their identification has been rendered certain by the inscriptions they contain; therein these pillars are designated as ‘Āyaka-khambha.’ According to Vogel (*Ep. Ind.*, xx, p. 2) it ‘had no structural function but utilized for sculpturing in low relief

Buddhist emblems and dedicatory inscriptions.' Vaddari Apparao thinks that it means ' a pillar erected near the gate.'—(*Indian Culture*, October, 1936, pp. 389-390.)

ĀYATANA—An enclosure, earlier an abode, a house, later an enclosed settlement, temples and monasteries, an assembly hall.

(*R.-V.* IV, 4, 3 ; 37, 1 ; V, 3, 6 ; VI, 21, 4, VII, 56, 22 ; 61, 3 ; X, 91, 2.)

A dwelling, a temple where an idol is installed :

- (1) Pūrveṇa phalino vṛikshāḥ kshītra-vṛikshās tu dakṣhiṇe |  
 Paśchimena jalām śreshṭham padmotpala-vibhūshitam ||  
 Uttare saralais tālaiḥ śubhā syāt pushpa-vāṭikā ||  
 Sarvatas tu jalām śreshṭham sthiram asthiram eva cha |  
 Pārśve chāpi kartavyam parivārādikālayam |  
 Yāmye tapovana-sthānaṁ uttare mātṛikā-gṛiham |  
 Mahānaśam tathāgneye nairṛitye'tha vināyakam ||  
 Varuṇe śrīnivāsas tu vāyavye gṛiha-mālikā |  
 Uttare yajña-śālā tu nirmālya-sthānam uttare ||  
 Vāruṇe soma-daivatye bali-nirvapaṇam smṛitam |  
 Purato vṛishabha-sthānaṁ śeshe syāt kusumāyudhaḥ ||  
 Jale vāpi tathaiśāne Viṣṇus tu jala-śayyāpi |  
 Evam āyatanaṁ kuryāt kuṇḍa-maṇḍapa-saṁyutam ||

(*Matsya-Purāṇa*, Chap. CCLXX, vv. 28-34.)

- (2) Pañchāyatana-madhye tu Vāsudevaṁ niveśayet |

(*Agni-Purāṇa*, Chap. XLIII, v. 1.)

- (3) Devatāyatana-vāpī-kūpa-taḍāgādi-nirmāṇam |

(*Nārada-Purāṇa*, Part I, Purva-bhāga, Chap. XIII, Colophon.)

- (4) Chatuḥ-shasṭī-padaṁ kuryāt devāyatanaṁ sadā |

(*Bhaviṣya-Purāṇa*, Chap. CXXX, v. 17 ;  
*Bṛihat-Saṁhitā*, LVII, 10.)

Pura-madhyam samāśritya kuryād āyatanaṁ raveḥ ||

(*Bhaviṣya-Purāṇa*, Chap. CXXX, v. 40 ; see also v. 41.)

- (5) *Rāmāyaṇa* (Cock) :

I. 5, 13 : purīm . . . devāyatanaś chaiva vimānair api  
 śobhitām |

I. 13, 37 : yajñāyatana |

I. 77, 13 : devatāyatanaṁ |

II. 6, 4 : śrīmatyāyatane viṣṇoḥ |

- II. 6, 11 sitābhra-śikharābheshu devatāyataneṣhu ।  
 II. 3, 18 devāyatana-chaityeṣhu ।  
 II. 25, 4 chaityeṣhv-āyataneṣhu cha ।  
 II. 52, 90 tīrthāny-āyatanāni cha ।  
 II. 56, 33 chaityānyāyatanāni cha ।  
 II. 71, 42 devāyatana-chaityeṣhu ।  
 VII. 101, 15 ubhe purottame . . . śobhite śobhanīyaiś cha  
 devāyatana-vistaraiḥ ।

(6) *Mahābhārata*, II, 80, 30, etc. (*ibid.*) :

Devāyatana-chaityeṣhu ।

(7) *Taittirīya-Saṁhitā*, 2, 2, 6, 1, etc. (*Pet. Dict.*) :

Devānām evāyatane yatate jayati taiḥ saṁgrāmam ।

(8) *Śatapatha-Brahmaṇa*, 4, 4, 5, 3 ; 5, 2, 13 ; 6, 2, 1, 14 ; 12, 5, 1, 17.  
 etc. (*ibid.*) :

Kūpā iva hi sarpāṇām āyatanāni ।

Chhāndogya-upaniṣad, 6, 8, 2, etc. (*ibid.*) :

Sa yathā śakuniḥ sūtreṇa prabaddho diśam diśam patitvānya-  
 trāyatana-malabdhvā bandhanam evopāśrayate ।

(9) Śivasyāyatanam ramyaṁ chakre—'built a beautiful temple of Śiva.'—(An Abu Insc. of the reign of Bhīmadeva II, *Ind. Ant.*, Vol. xi, p. 221, 222.)

(10) Chakrāyatanam śambhor ambhonidhi-samam saraḥ—'he built the temple of Śambhu and a tank equal to the sea.'—(Harsauda Insc. of Devapaladeva, line 13-14, *Ind. Ant.*, Vol. xx, p. 312.)

(11) Śrī-Nānigasvāmī devāyatanam kārapitam ।

'The temple of the illustrious god Nānigasvāmin was caused to be made.'—(Atpur Insc. of Śakti-kumāra, line 1-2, *Ind. Ant.*, Vol. xxxix, p. 191.)

(12) Someśvarayatana-maṇḍapam uttareṇa ।—(Cintra Prasasti of the reign of Sarangadeva, vv. 40, 41, 42, 45, 72 ; *Ep. Ind.*, Vol. I, p. 284.)

**ĀYĀDI-KARMAṆ** (*see* under SHAD-VARGA)—The consideration of Āya and other formulas for the verification of correct dimensions.

Evaṁ tu daṇḍakaṁ (grāmaṁ) proktaṁ tasyāyāmam ihochyate ।

Vistārād dvi-daṇḍena vardhayed dviguṇāntakam ।

Yaḥ śubhāyādi-karmārtham daṇḍa-hinādhikam tu vā ।

(*M.*, IX, 12-14.)

**ĀYĀDI-BHŪSHANA** (*see* under SHAD-VARGA)—The consideration of Āya, and other formulas for ascertaining right proportions.

Pādānām api sarveśhām lakṣhaṇam vakshyate'dhūnā ।

Āyamaṁ cha viśūlam cha āyādi bhūshaṇādikam ।—(*M.*, xv, 1-2.)

ĀYĀDI-SHAḌ-VARGA (*see* under SHAD-VARGA.)—The six formulas for the verification of correct dimensions called āya, vyaya, ṛiksha, yoni, vāra, and amśa or tithi.

Evam āyādi shaḍ-vargaṁ kuryāt tatra vichakṣaṇaiḥ(ṇaḥ) ।

(M., ix, 74.)

ĀYIKA-PĀDA (*cf.* STAMBHA)—A kind of pillar.

Vedāmsaṁ chaṅghri-tuṅgaṁ chārdhaṁ prastarotsedham ।

Tad-dvayaṁ āyika-pādaṁ sārddhāmsaṁ prastaram uttūgam ।

Tad-ūrdhvāṅghri guṇāmsaṁ tad-ardhaṁ ūrdhva-mañchochcham ।

(M., xxviii, 25-27.)

ĀRĀMA (*cf.* UDYĀNA)—A pleasure-garden, a garden-house, an orchard. A Buddhist convent (vihāra), rest-house for quiet people built 'not too far from the town and not too near, convenient for going and for coming, easily accessible for all who wish to visit him, by day not too crowded, by night not exposed to too much noise and alarm.' The whole compound is enclosed with ramparts of three kinds, namely, brick walls, stone walls and wooden fences, which are again surrounded with bamboo fences, thorn fences and ditches.—(*Chullavagga*, vi, 4, 8 ; 3, 10.)

(1) Nāgasya vāmake yāmye kuryād ārāma-deśakam ।

Pushpodyānaṁ tataḥ kuryāt mukhya-bhallāṭake'pi cha ।

Ṇṛittāgāraṁ tataḥ kuryān nānā-Ṇṛittāṅganāni cha ।

(M., xl, 119-121.)

(2) Prāntach-chhāyā-vinir-muktā na manojūā jalāśayāḥ ।

Yasmād ato jala-prānteshvārāmān vinivśayet ॥

'Considering that water reservoirs without shade on the margin are not lovely, one ought to have *gardens* laid out on the banks of the water.'

(*Bṛihat-Saṁhitā*, lv, 1, J.R.A.S., N. S., Vol.

vi, p. 312.)

(3) *Rāmāyaṇa* (Cock) :

II. 51, 23 : ārāmodyāna-saṁpannāṁ . . . rājadhānim ।

VII. 70, 13 : ārāmaś cha vihāraś cha śobhamānam(-naiḥ) samantataḥ ॥

Śobhitāṁ . . . purim ॥

(4) *Mahābhārata* (*ibid.*), xii, 69, 11, etc. :

Vihāreshu . . . ārāmeshu tathodyāne ।

(5) Garden :

Kaṣṭhe kāle kalāvapy-abhibhavati jagat kūpa-vāpi-taḍāgair āsan-nārāma-sattrañiḥ sura-sadana-maḥhairm-maḥḍitāyām amushyām . . . nagaryām ।—(*Dewal Prasasti of Lalla the Chhinda*, v. 20, *Ep. Ind.*, Vol 1, pp. 79, 83.)

- (6) Pleasure-garden houses, orchards :

Ārāmāny-atanot sarān sarobhiś śobhitāmtarāih |

Utphulla-kamja-kimjalka-pumja-pimjaritāntarāih ||

(Two pillar inscriptions at Amaravati,  
no. A, Insc. of Keta, II, v. 42,  
*Ep. Ind.*, vi, p. 152.)

- (7) Satra-prapā-praśraya-vṛishotsargga-vāpi-kūpa-taḍḍāgārāma-devālayā-  
di-karaṇopakarāṇārtham cha |

(Cambay Plates of Govinda IV, line 58,  
*Ep. Ind.*, Vol. vii, pp. 41-46.)

- (8) Kṛishṇayaśasa ārāma—garden (Sir E. C. Bayley, Dr. Vogel) : *vihāra*  
or monastery (Sir A. Cunningham) of Krishnayaśa.

(Rock Inscriptions in the Kangra valley,  
the Kanhiara Insc., *Ep. Ind.*, Vol.  
vii, pp. 117-118.)

- (9) Grove (Dr. Lüders) :

Yamoḍa-pushkaraṇinaṁ paśchimā pushkaraṇi udapāno ārāmo stambho  
. . . śilā paṭṭo cha— 'a tank, the western tank of these twin tanks, a  
reservoir, a grove, a pillar and this stone slab' (was caused to be made).

(Three early Brahmi inscriptions, iii,  
Mathura stone inscrip. of the time of  
Soḍḍāsa, lines 2-3, *Ep. Ind.*, Vol. ix,  
p. 247.)

- (10) Nānā-deśa-prabhava-suphala-vrāta-bhārāti-namra-vṛiksha-śreṇi-  
niyama-khachitaḥ śāla-saṁgupta-madhyah |

Ārāmo'yaṁ surabhi-sumanorāji-samarājamānaḥ nānā-vīrullal  
tasaraṇiḥ pūrṇa-kāmaḥ sadāstām ||

(Inscriptions from Nepal, no. 23, Insc. of  
Queen Lalita-tripura-sundarī, v. 2,  
second series, *Ind. Ant.*, ix, p. 194.)

ĀRSHA—Belonging or relating to the ascetics, a phallus of Śiva.

A kind of phallus.—(*Kāṁikāgama*, L, 35, 37, see under LIṄGA.)—(*M.*, LI  
232, see under LIṄGA.)

ĀLAMBANA—The base, plinth of a railing (vedi) or balustrade.

Sarveshām mukha-bhadrāṇām syāt lakṣhaṇam vakshyate' dhunā |  
Śikharālambanam chāḍau tat pālikāvasānakam |

(*M.*, xviii, 275-276, etc.)

ĀLAMBANA-BĀHU—The balustrade, a small pillar used as a  
support to the rail of a staircase : balustrade of a row of balusters

joined by a rail forming an ornamental parapet to a balcony. See *Indian Architecture*, p. 13, *Mahasudassana Sutta*, 1, 59 : *Chullavagga*, VI, 3, 3.

ĀLAYA—A temple, a house.

Rāmeśvarāya ghanamaṅṭapa-vapra-saudhāramālayaṁ samatanot sama-tārasajñāḥ— he erected a temple (ālaya), adorned with a solid hall (maṅṭapa), a wall (vapra), and a plastered mansion (saudha) to Rāmeśvara'

(Mangalagiri pillar inscrip., v. 39, *Ep. Ind.*, Vol. VI, pp. 123, 114.)

ĀLIṄGA (*cf.* ANTARITA)—A moulding like the fillet, but with greater projection. It is a flat moulding placed alternately together with the Antarita and is inseparably connected with the latter.

The ninth moulding from the top of the entablature (*Kāṁikāgama*, LIV, 2, see under PRĀŚĀDA).

A crowning moulding of the pedestal and the base (e.g. *M.*, XIII, 126 ; XIV, 50, etc., see the lists of mouldings under ΑΒΗΣΤΗΑΝΑ and ΥΡΑΠΙΤΗΑ).

A similar moulding of a throne :

Āhṅāntaritaṁ chordhve prativājanam uchyate I—(*M.*, XIV, 110.)

ĀVASATHA—A dwelling, an abode, 'a structure of some sort for the reception of guests on the occasions of feasts and sacrifice, later Dharma-śālā or rest-houses.

(*A.-V.*, IX, 6, 5 ; *Taitt. Br̄.*, I, 1, 10, 6 ; III, 7, 4, 6, *Śat. Br̄.*, XII, 4, 4, 6 ; *Chhand. Upa.*, IV, 1, 1 ; *Apa. Śtambha Śrauta Sūtra.*, V, 9, 3 ; *Apa. Dh. Sūtra.*, II, 9, 25, 4 ; *A.-V.*, XIV, 2, 6.)

ĀVARAṆA— Minor and associated deities.

(*M.*, XV, 400.)

ĀVĀSA—A residence, a dwelling-house.

Āvāsa-vāsa-veśmādaḥ pure grāme vaṅṅik-pathe II

Prāsādārāma-durgeṣu devālaya-maṭheshu cha I

(*Garuḍa-Purāṇa*, Chap. XLVI, vv. 2, 3.)

Nirjagāma nṛipāvāsān manya-mānaḥ priyaṁ mahat I

(*Rāmāyaṇa*, II, 15-28.)

ĀVṚĪTA (*see* PRĀKĀRA)—An enclosure.

Śikhare chāvṛite pāre sabhā-maṅṭapa gopure . . . mānayet I

(*M.*, XVII, 200 f.)



ĀVRITA-MANḌAPA—An open pavilion surrounding a building.

(1) *Kāmikāgama*, xxxv :

Evam̐bhutasya vāsasya samantān maṇḍapaṁ nayet ॥ (97)  
 Pañcha-bhāgāvāsānāntaṁ kuryād āvṛita-maṇḍapam ॥ (98)  
 Hasta-mānena vā kuryāt tri-hastād arddha-vṛiddhitaḥ ।  
 Pañcha-daśa-karāntaṁ tu kuryād āvṛita-maṇḍapam ॥ (99)  
 Maṇḍapena vinā vāpi tena mānena pīṭhikā ॥ (100)

(2) *Suprabhedāgama*, xxxi, 137 :

Prākāra-bhittim āsṛitya kuryād āvṛita-maṇḍapam ॥

ĀVEŚANA—An architectural office, a studio, a place where art-works are taught and carried out.

Āveśanaṁ śilpi-śālā prapā pāniya-śālikā ।—(*Amarakōsha*, II, 5, 7.)

ĀŚRAMA (*see* under SHOḌAŚA-MANDIRA-CHAKRA)—A temple, a hermitage, a dwelling. A religious establishment comprising the main temple, its attached tank, kitchen, alms-house, guest-house, store-house, cow-sheds, halls dressing-houses for the deity, bed-rooms and other houses and flower gardens, orchards and the surrounding walls.

Surebhyaḥ puraṭaḥ kāryo yasyāgneyyāṁ mahānasam ।  
 Vā(? ka)pi-nirgamane yena pūrvvataḥ sat(t)ra-maṇḍapam ॥  
 Gandha-pushpa-gṛihaṁ kāryyam aiśānyāṁ paṭṭa-saṁyutam ।  
 Bhāṇḍāgāraṁ cha kauberyyāṁ goshṭhāgāraṁ cha vāyave ॥  
 Udagāśrayāṁ cha vāruṇyāṁ vātāyana-samanvitam ।  
 Samit-kuśendhana-sthānam āyudhānāṁ cha nairṛite ॥  
 Abhyāgatālayaṁ ramya-saśayāsana-pādukam ।  
 Toyāgni-dīpa-sad-bhṛityair yuktaṁ dakṣiṇato bhavet ॥  
 Gṛihāntarāṇi sarvāṇi sajalaiḥ kadali-gṛihaiḥ ।  
 Pañcha-varṇaiś cha kusumaiḥ sobhitāni prakalpayet ॥  
 Prākāraṁ tad-bahir dadyāt pañcha-hasta-pramāṇataḥ ।  
 Evaṁ vishṇvāśramaṁ kuryād vanaiś chopavanair yutam ॥

(*Garuḍa-Purāṇa*, Chap. XLVI, vv. 14-19.)

ĀŚRAMĀGĀRA—A class of the seven-storeyed buildings.

(*M.*, xxv, 29, *see* under PRĀSĀDA.)

ĀSANA—A class of buildings, a seat, a throne, a bedstead, a moulding, a site-plan, a temple, a type of dwellings, a sitting posture.

(1) *Mānasāra* :

A class of the three-storeyed buildings.

(*M.*, xxx, 12-31, *see* under PRĀSĀDA.)



**THE SITE PLANS**  
**ĀSANA PLAN OF 100 PLOTS**



WYD ROGA	HAGA	MUKHYA	BHALLATE	SOMA	MRIGA	ADITI	UDITA ISA
SOSHA	RUDRAJAYA	BHUDHARA			APAVATSA	PARJANYA	
	RUDRA				APAVATSA		
ASURA	MITRA	BPANHĀ			ĀRYĀMAN	JAYANTA	
VARUNA						MAHEन्द्रA	
PUSHPA-DANTA						ĀDITYA	
SUGRIVA						SATYA	
DAUMĀRIKA	INDRA-JAYA	VIVASVAT			SAVITRA	BHIRGA	
	INDRA				SĀVITRA		
PITR LAKSHNA	BHRINGARĀJA	GAN- DHARVA	YAMA	GRHA- KSHATA	VITATHA	PUSHAN	ANTARIKSHA AGNI

**NOTE 7**

**THE DETAILS OF THIS PLAN HAVE  
 BEEN OBTAINED FROM SILPA-RĀTHA ETC.**

A class of buildings in which the breadth is the standard of measurement ; the temples in which the idol is in the sitting posture.

(*M.*, XIX, 7-11, see under APASAMCHITA.)

A synonym of śayana or bedstead.—(*M.*, III, 10-12, see under ŚAYANA.)

A site-plan the area of which is divided into 100 equal squares :

Daśamaṁ śata-padaṁ syān nāmanam(nāmnā) āsanam Iritam ।

(*M.*, VIII, 11, see details under PADAVINYĀSA.)

A moulding of the base.—(*M.*, XIV, 296, see under ADHIBHṬHĀNA.)

The seat underneath the base of a pillar :

Tan (pillar's)-mūle chāsanam kuryāt pādukaṁ vā sahāmbujam ।

(*M.*, XV, 31.)

A seat as opposed to a bedstead :

Evam tu śayanādīnām āsanānām cha dārubhiḥ(rūṇi) ।

(*M.*, XLIV, 74.)

A throne :

Devānām bhū-patinām cha bhūṣaṇārthaṁ tu toraṇam ।

Āsanopari vinyasya sarveśhām toraṇam ।—(*M.*, XLVI, 1, 3.)

. . . toraṇam ।

Devānām bhū-patinām cha sthānakasyāsanasya cha ।

(*ibid.*, 29-30.)

Devānām bhū-patinām cha sthānakāsana-yogyakam ।

Mukta-prapāṅgā-mānaṁ cha lakṣhaṇaṁ vakṣhyate'dhunā ।

(*M.*, XLVII, 1-2.)

Devānām chakravaryādi-bhū-pālānām cha yogyakam ।

Kalpa-vṛikshādīnām tāraṁ mānaṁ lakṣhaṇaṁ uchyate ।

Toraṇodaya-pādaṁ tu pādārdhādhikodayam ।

Evam vṛikshasya tuṅgasya āsanasyopari nyaset ।

Āsanāyāma-madhye tu toraṇasyopari nyaset ।—(*M.*, XLVIII, 1-5.)

The sitting posture (of the Garuḍa image) :

Sthānkaṁ chāsanam chaiva gamanaṁ cha yathāvidhi ।

(*M.*, LXI, 19.)

Evam proktaṁ śimha-rūpaṁ . . . ।

Śayanaṁ vā sthānakaṁ chāsanam vā . . . ।—(*M.*, LXIII, 44, 49.)

The sitting posture in connexion with the plumb-lines :

Sarveśhām deva-edvīnām ṛiju-sthānakaṁ chāsane ।

Māna-sūtra-vidhiṁ samyak(g) lakṣhaṇaṁ vakṣhyate'dhunā ।

(*M.*, LXVII, 1-2.)

(2) *Rāmāyaṇa* (Cock) :

V, 15, 4 : Bahvāsana-kuthopetām . . . (āsoka-vanikām) |  
 VII, 42, 16 f. : Bahvāsana-grihopetām . . . āsoka vanikām |  
 . . . praviśya Raghu-nandanah |  
 Āsane cha śubhākāre pushpa-prākāra-bhūshite ||  
 Kuśāstarapa-saristīrṇe Rāmah samnisasāda ha |

(3) *Kātyāyana-Srauta-sūtra* (*Pet. Dict.*) Sabhāsana (4, 15, 33) ;

Sālāsana (7, 5, 8) ; Brahma-yajamānuyor āsane (1, 8, 27 ; 7, 4, 32 ;  
 9, 9, 12, 4, 15, etc.).

(4) *Manu-Saṁhitā* (*ibid.*) :

Sahāsana (8,281) ; Sahakhaṭvāsana (8,357) ; Rahaḥ sthānāsanam  
 (6,59) ; āsaneshūpakalpiteshu (3,208) ; and Kumāra-sambhava (7,12) ;  
 Saṁprāptāya tvathithaye pradadyād āsanodake (3,99) ; dadyāc chaivāsa-  
 naṁ svakam (4,154) ; cf. :

Rājño māhātmike sthāne sadyaḥ sāucham vidhiyate |

Prajānām parirakshārtham āsanam chānna-kāraṇam || (5, 94).

Amātya-mukham . . . |

Sthāpayaḥ āsane tasmin iva naḥ kārye kshaṇe nṛiṇām || (7, 141).

(5) *Bhagavadgītā* (*ibid.*), 6, 11 :

Suchau deśe pratishṭhāpya sthiram āsanam ātmanah |

(6) *Nalopākhyāna* (*ibid.*) 5, 4 :

Āsaneshu viviḍheshvāsinaḥ |

(7) *Raghu-vaṁśa* (ed. Cal. Bibl. 134), 2, 6 :

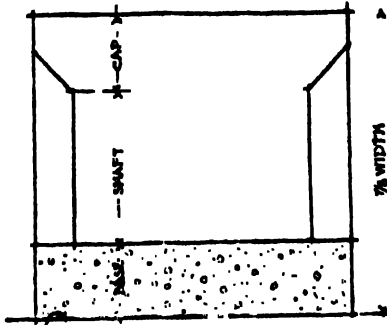
Sayyāsane'dhyācharite preyasā |

Cf. padmāsana, bhadrāsana, vajrāsana, virāsana. and svastikāsana  
 (see *M. W. Dict.*, loc. cit.).

(8) Bahu-hathika-āsana bhagavato Māhadevasa—'The seat of  
 the blessed Mahādeva (under the banyan tree) Bahuhastika (where  
 many elephants are worshipping).'

(Bharaut Inscriptions, no. 160, *Ind. Ant.*, XXI, p. 239.)

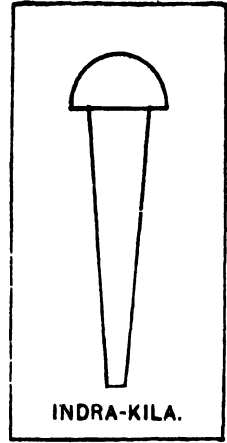
ĀSANDA— } A settee, a throne-like seat, large couches, cushions,  
 ĀSANDI— } chairs, rectangular chairs, a throne carried by four  
 persons (*Digha Nikaya* II, 23 ; *Chullavagga*, VI, 14, 1 ; *Mahāvagga*,  
 V, 10, 3. See Childers Dictionary, Rhys Davids and Oldenberg, Bud-  
 dhist Sutta, 27, 197, 209), with wooden frame-work for chiefs and  
 kings.—(*A.-V.*, xv, 3, *Āit. Br.* viii, 5 ; 6 ; 12.)



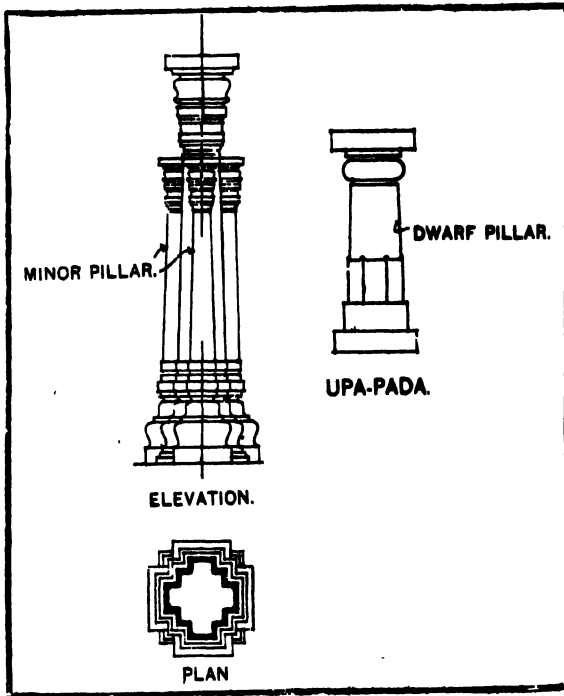
**SUGGESTED SECTION  
OF FOUNDATION**

THE WIDTH OF THIS  
FOUNDATION HAS BEEN  
TAKEN TO BE 3 FEET  
THAT IS 4'-0" IN STEAD OF  
3 FEET

**ISHITAKA**



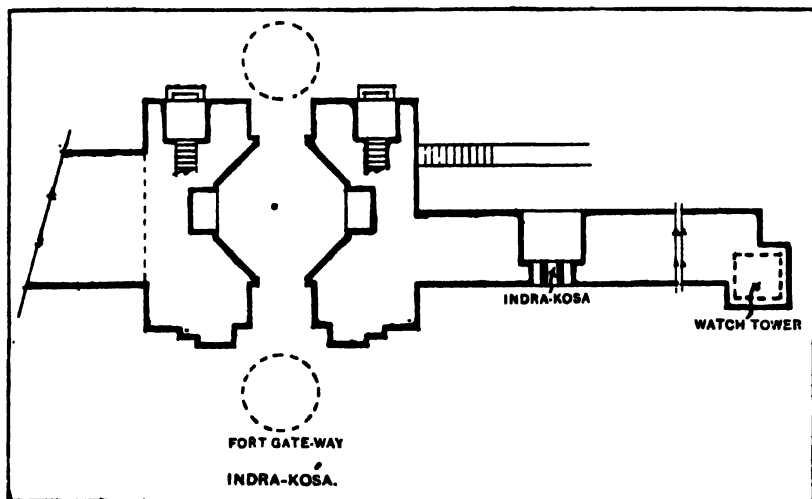
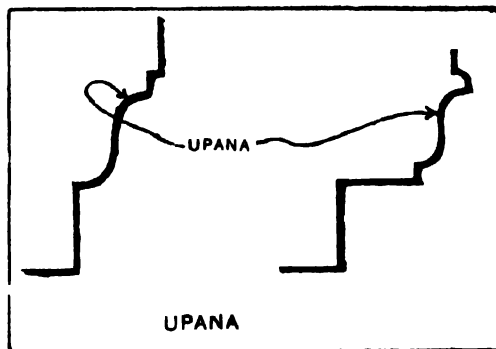
**INDRA-KILA.**



**ELEVATION.**

**UPA-PADA.**

**PLAN**



**ĀSTHĀNA-MANḌAPA** (*see under* MANḌAPA)—An assembly room, an audience-hall, a sitting room, a drawing room, a recreation ground with a pavilion in it.

(1) Āsthāna-maṇḍapaṁ chaiva chatur-dikshu vidikshu cha |

(*M.*, xxxii, 73.)

Samāśraṁ vātha vedāśraṁ kuryād āsthāna-maṇḍapam |

(*M.*, xxxiv, 208.)

Āsthāna-maṇḍapaṁ kuryāt pushkariṇyāṁ cha vāyave |

(*M.*, xi, 118.)

(2) Riksha-bhallāṭa-someshu bhaved āsthāna-maṇḍapam |

(*Kāṁikāgama*, xxxv, 191.)

(3) *See* first Drākshārāma pillar Inscrip. 1, 9, *Ep. Ind.*, Vol. iv, pp. 329, 330, under MANḌAPA.

(4) A hall (Vanapalli Plates of Anna-Vema, v. 10, *Ep. Ind.*, Vol. iii, pp. 61, 59).

*Cf.* Āsthāna-śilā-maṇḍapa (First Drākshārāma pillar Inscrip., line 9. *Ep. Ind.*, Vol. iv, pp. 329, 330).

(5) *Cf.* 'The curious long series of subterranean chambers to the west of Chitaldoorg, now forming part of the Ankli maṭha, are deserving of notice. They are approached by a good stone staircase, which leads down to rooms of various sizes at different levels. In these are shrines, liṅgas, baths, and pedestals, the latter apparently for yogāsana.'

(*Ep. Carnat.*, Vol. xi, *Introduct.*, pp. 31-32.)

**ĀSYA**—A fascia.

## I

**IKSHU-KĀNTA**—A class of the six-storeyed buildings.

(*M.*, xxiv, 55, *see under* PRĀŚĀDA.)

**INDRA-KĀNTA**—A class of the four-storeyed buildings, and of the gate-houses.

(*M.*, xxii, 60-88, *see under* PRĀŚĀDA.)

A class of gate-houses.—(*M.*, xxxiii, 558, *see under* GOPURA.)

**INDRA KĪLA(-KA)**—A pin, a nail, a bolt.

Phalakā bhājanordhve tu tad-urdhve chendrakilakam |

Tataḥ pratimā-saṁyuktaṁ sthāpayet sthapatir budhaḥ |

(*M.*, xi, 125-126.)

An iron bolt : aratnir indrakīlaḥ—the iron bolt is one cubit long.

(*Kaṁṣīlya-Artha-tātra*, Chap. xxiv, p. 53.)



INDRA-KOŚA— } A projection of the roof of a house forming  
 INDRA-KOŚṬHA - } a kind of balcony, holes orjali work in  
 arches, crenelle, an opening in a parapet for shooting through.

Aṭṭālaka-pratoli-madhye tri-dhānushkādhishṭhānam sāpi-dhānach-  
 chhidra-phalaka-samhatam itindrakośam kārayet |

(*Kauṣīlyā-Artha-śāstra*, Chap. xxiv, p. 52.)

ISHṬAKA—Brick, a building material, burnt (pakva, *Sāt. Brā.*, vi, 1, 2, 22; vii, 2, 1, 7), naturally perforated (svayamātrinnā, *Taitt. Sam.*, iv, 2, 9; 3, 2; etc., v, 2, 3), of all colours (*Taitt. Sam.*, v, 7, 8), circular (maṇḍalā, *Taitt. Sam.*, iv, 4, 5; v, 3, 9), cornerless (vikarṇi, *Taitt.*, v, 3, 7), conical (choḍā, *Taitt. Sam.*, iv, 4, 3), gold-headed or enamelled (vāmabhṛit, *Taitt. Sam.*, iv, 2, 9; v, 5, 3), pot-shaped (kumbhā, *Taitt. Sam.*, v, 6, 1). Thus the brick-laying was already a developed art in the age of the *Yajurveda* (1000 B.C.). But in 3000 B.C. burnt bricks were in use in Mohenjodaro, etc.

(1) Śilābhiś chesṭakair vāpi dārubhiḥ . . .—(*M.*, xxx, 95.)

Eka-dvā-daśa-bhūmyantaṁ chesṭake dvā-daśāntataḥ |

Harmyaṁ nirmānato vakshye prathamesṭaka-lakṣaṇam |

(*M.*, xii, 188-189.)

(2) Tṛiṇādi-nirmitaṁ yo dadyāt paramēsvari |

Varsha-koṭi-sahasrāṇi sa vased deva-veśmani ||

Iṣṭaka-griha-dāne tu tasmāch chhata-guṇaṁ phalam |

Tato'yuta-guṇaṁ puṇyaṁ śilā-geha-pradānataḥ ||

(*Mahānirvāṇa-Tantra*, xiii, 24, 25.)

(3) 'The following written declaration (vyavasthā) is (also) granted (for the guidance of the donee) : Mansions of burnt tiles (bricks) may be built (without special permission) ; . . . with the written declaration thus defined (the village) was placed in the (hands) of the assembly as a deva dāna, with all immunities, to the (God) Mahādeva of the Yajñeśvara (temple).—(Velurpalaiyam plates, lines 47 to 63; no. 98, *K. S. I. I.*, Vol. II, p. 512.)

(4) 'Mansions and large edifices may be built of burnt bricks.'

(Tandantottam Plates, no. 99, lines 26-38 :

*K. S. I. I.*, Vol. II, p. 531.)

(5) 'The walls of the temple . . . are in great preservation, the bricks, which compose them, are of well-burnt red earth, each measuring 12 inches by 7 and 1½ thick, disposed with about one-eighth of an inch of chunam between them, and the layers, being quite even, look as if the plaster had just been stripped off.'

THE SITE PLANS  
UGRAPITHA PLAN OF 36 PLOTS



VĀYU	MUKHYA	SOMA	ADITI	ĪŚĀ
ŚOSHA	RUDRA	BHŪDHARA	APAVATSĀ	JAYANTA
VARUNA	MITRA	BRAHMĀ	ĀRYAKA	ĀDITYA
SUGRĪVA	INDRA	VIVASVAT	SAVITRA	BHRISĀ
PITRI.	BHRĪNGA- RĀJA	YAMA	VITĀṬHA	AGNI

NOTE:-

THIS IS AN AMPLIFICATION OF  
THE UPA PITHA TYPE



Lieutenant Fagan (*Ceylon Government Gazette*, August 1, 1820) after describing about twenty buildings (temples and edifices) made of such burnt bricks concludes :

‘ I will leave it to the curious in Ceylon antiquities to discover the reason that the people, who built these great edifices, should take the trouble of making so many millions of bricks for the work, where there was abundance of fine stone well calculated for their construction in the immediate neighbourhood.’—(An account of the ruins of Topary, *Ind. Ant.*, Vol. xxxviii, p. 110, c. 2, line 12 f. ; c. 2, para. 2.)

I

ĪŚA-KĀNTA—A class of the eleven-storeyed buildings.

(*M.*, xxxix, 10-11, see under PRĀSĀDA.)

ĪŚVARA-KĀNTA—A site-plan, a class of buildings.

A site-plan in which the whole area is divided into 961 equal squares :

. . . chaika trimśat-vidhāne tu |  
Eka-shashṭi-samādhikyaṁ padaṁ nava-śata-yutam |  
Evam īśvara-kāntaṁ syāt . . . |

(*M.*, vii, 45-48, see further context under PADA-VINYĀSA.)

A class of the four-storeyed buildings:

(*M.*, xxii, 44-46, see under PRĀSĀDA.)

U

UGRA-JĀTI—Base-born, people of low castes, for whom buildings of certain number of storeys are prescribed.

(*M.*, xi, 138.)

UGRA-PĪṬHA—A site-plan in which the whole area is divided into 36 equal squares.

(*M.*, vii, 7, see further details under PADA-VINYĀSA.)

UCHCHHRAYA—A kind of pillār, pillars of victory.

Giri-fikhara-tarū-talāṭṭālakopatalpa-dvāra-śaraṇochchhraya (raised places of shelter) Kielhorn quotes also Drs. Indraji and Bühler who translate ‘śaraṇa’ by ‘shelter’ and ‘uchchhraya’ by ‘pillars of victory’.

(Junagadh rock Inscrip. of Rudradaman, line 6, *Ep. Ind.*, Vol. vii, pp. 43, 46 and note 3.)

UÑHISA—A headline running along the top of the banisters, a figure-head at the lower end of such a head line.

(Rhys David's *Buddhist Sutta*, p. 262  
Sudassanasutta, 1, 59.)

UTTAMA-NAVA-TĀLA—A sculptural measurement : in this system the whole height of an image is divided into 112 equal parts which are proportionately distributed among the different parts of the body from head to foot. The measurement of breadth of the various limbs is not included in these 112 parts. The measurement of the arms is also excluded from these.

For details, see *M.*, LIX, 14-64, under TĀLA.

UTTAMA-DAŚA-TĀLA—A sculptural measurement in which the whole height of an image is generally divided into 120 equal parts.

(*M.*, LXV, 2-179, see details under TĀLA.)

UTTAMBHA—A kind of rectangular building.

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 21-22  
26-27, see under PRĀSĀDA.)

UTTARA—A rectangular moulding, a fillet. (For its synonyms, see *M.*, XVI, 56-58 below.) It is used sometimes to signify the whole architrave or the beam, i.e. the lowest division of the entablature, which extends from column to column ; also applied to the moulded frame which bounds the sides and head of a door or window opening. It also denotes a particular member of the pedestal and entablature and resembles the corona or the square projection of the upper part of the cornice, having a broad and vertical face generally plain.

(Cf. Rām Rāz, *Ess. Arch. Hind.*, p. 25.)

(1) *Mānasāra* :

A crowning moulding of the pedestal :

Uttaram chāmsakam chordhve kshepaṇārdhādihikāmbujam ।

Uttaram chārdha-kampan syāt tad-ūrdhve cha saro-ruham ।

(*M.*, XII, 67, 76, etc., see the lists of  
mouldings under UPAPITHA.)

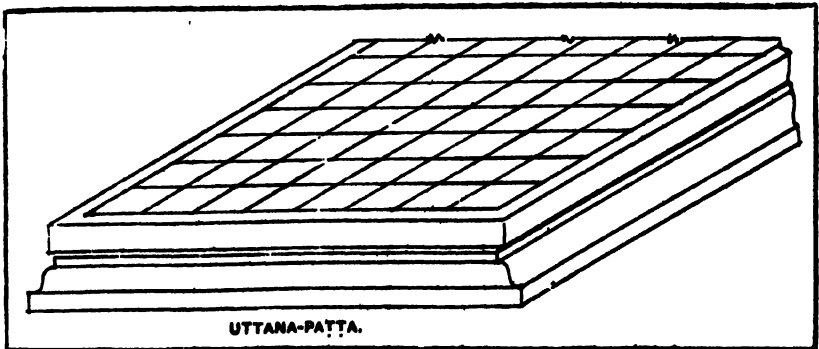
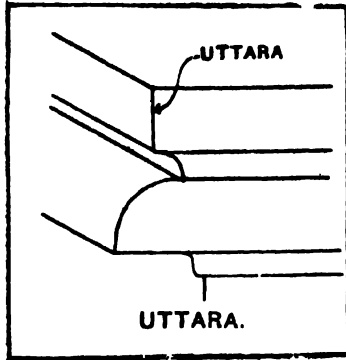
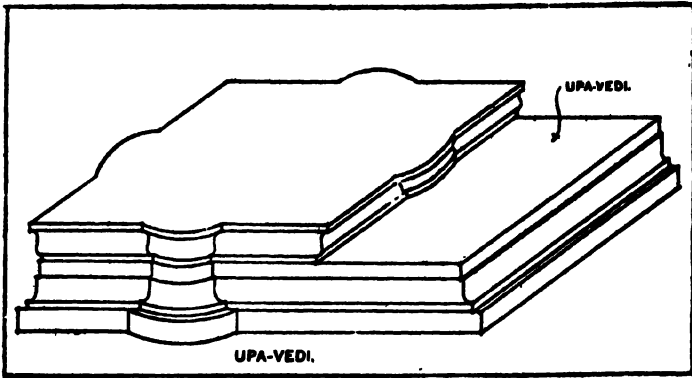
A similar moulding of the column :

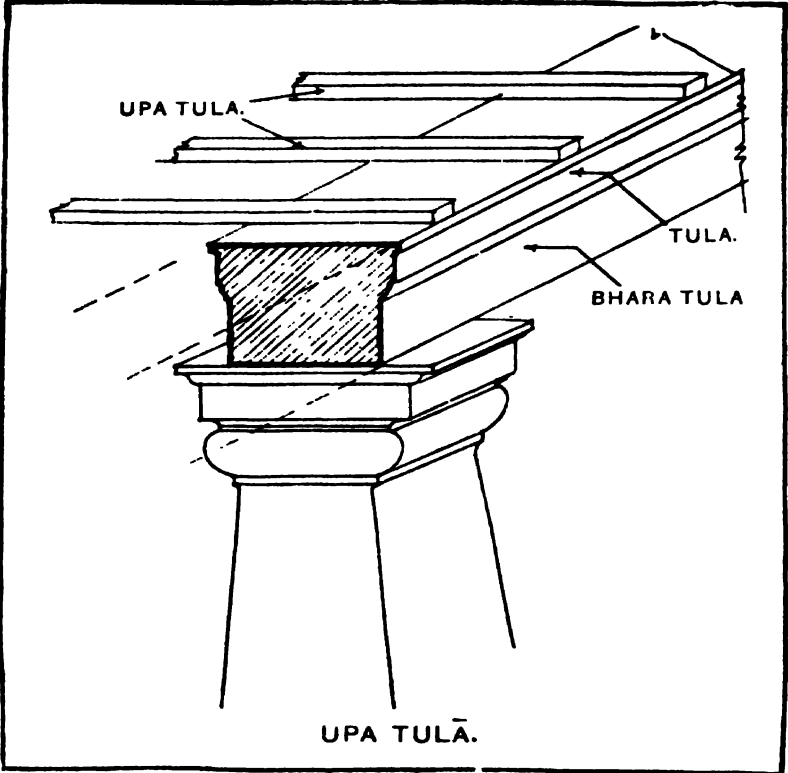
Adhishṭhānparishṭ(h)āt tu chottarārdho'vasānakam ।

Upapīṭhparishṭ(h)āt tu janmādu chottarāntakam ।

Pādāyāmāvasānam cha adhishṭhānodayena cha ।

(*M.*, XV, 7-9.)





A similar moulding of the entablature :

Uttarordhve chatush-pañcha-shaṭ-saptāshṭakam bhavet |

Pūrva-bhāgika-mānena chottarochcharṇ guṇāmsakam |

(*M.*, XVI, 30, 59, etc., see the lists of mouldings under PRASTARA.)

Its synonyms (or terms of similar signification) :

Uttaram bhājanam ādhāram ādheyam śayanam tathā |

Uddhṛitam cha mūrdhakam chaiva mahātāuli svavarṇsakam |

Prachchhādanasyādhāram etat paryāyam iritam |

(*M.*, XVI, 56-58.)

(2) *Vāstu-vidyā*, cd. Ganapati Sāstri, IX, 1 :

Atha vakshyāmi saṁkshepāt pāda-mānam yathāvidhi |

Uttaropānayoṛ madhya-gatam etat prakīrtitam ||

(3) *Kāmikāgama*, (LIV, see under STAMBHA) : The moulding at the top of the entablature.

(4) *Suprabhedāgama* (XXXI, 107, see STAMBHA) : A crowning moulding of a column.

UTTAROSHṬHA (see under STAMBHA)—The upper lip, the ovolo or the moulding above the cavetto or mouth (see Gwilt., *Encycl.*, fig. 867, and also the list of mouldings in the five orders, e.g. Art. 2553).

Stambham vibhajya navadhā vahanam bhāgo ghaṭo'sya bhāgo'nyaḥ |

Padmam tathottaroshṭham kuryād bhāgena ||

(*Bṛihat-Saṁhitā*, LIII, 29.)

UTTĀNA-PAṬṬA—A pavement.

Vyddham chottāna-paṭṭam sakala-kanakhale . . . yaś chakāra— 'who made a broad pavement of (stone) slabs in the whole of Kanakhala.'

(An Abu inscrip. of the reign of Bhumadeva II, v. 9, *Ind. Ant.*, Vol. XI, pp. 221, 222.)

UTSAVA (see UTSEDHA)—The height of a draught animal (vāhana) in comparison with that of the idol of whom the former is the vehicle.

(1) Mūla-bera-vaśam mānam utsavodayam Iritam |—(*M.*, LV, 34.)

Brahmā vishṇu(ś cha)-rudrāṇām buddhasya ja(ji)nakasya cha |

Anyaiś cha . . . mānam tu saṁgraham |

Evaṁ tu chotsavādīnām sthāvara(m)-jaṅgamādīnām |

(*M.* LXIV, 91-93.)



Vihaṅga-rāja-mānaṁ cha lakṣhaṇaṁ vakshyate'dhunā |  
 Mūla-bera-samottuṅga(m) tat-tri-pādārdham eva vā |  
 Utsavochcha-samaṁ vāpi dvi-guṇaṁ tri-guṇaṁ tu vā |  
 Tri-guṇaṁ vādikaṁ vāpi tach-chatur-guṇam eva vā |  
 Evaṁ navodayaṁ proktam uttamādi trayaṁ trayam |

(M., LXI, 1-5.)

Vṛishasya lakṣhaṇaṁ samyag vakshyate'dhunā |  
 Vāyor abhimukhaṁ sthāpyaṁ piṭhe vā chotsave'pi vā |  
 Vimāne maṇḍape vāpi chāroparī parinyaset |—(M., LXII, 1-3.)

Three types :

Mūla-berodayaṁ śreshṭha(m) tri-pādaṁ madhyamaṁ bhavet |  
 Tuṅgārdhaṁ kanyasaṁ proktaṁ tri-vidhaṁ chotsavodayam |

(M., LV, 35-36.)

Berotsedha-samaṁ śreshṭhaṁ karṇāntaṁ madhyamaṁ bhavet |  
 Bāhvantaṁ kanyasaṁ proktaṁ utsavaṁ vṛishabhodayam |

(M., LXII, 10-11.)

Nine kinds :

Evaṁ liṅga-vaśāt proktaṁ vishṇu-bera-vaśo(ād u)chyate |  
 Mūla-bera-samaṁ vāpi netrāntaṁ vā puṣāntakam |  
 Hanvantaṁ bāhu-sīmāntaṁ stanāntaṁ hṛidayāntakam |  
 Nābhyaṁtaṁ meḍhra-sīmāntaṁ nava-mānaṁ chotsavodayam |  
 Tad-ardhaṁ kautukotsedhaṁ kanyasādi trayaṁ trayam |

(M., LXIV, 2 4-28.)

Athavā tena mānena shoḍaśāṁsaṁ vibhājite |  
 Ekaikāṁsakaṁ tasmāt pañcha-vimśāṁśakāntakam |  
 Kanyasād uttamāntaṁ syān nava-mānaṁ utsavodayam |  
 Athavā mūla-berasya keśāntaṁ tu bhruvāntakam |  
 Netrāntaṁ nāsikāgrāntaṁ hanvantaṁ bāhu-sīmakam |  
 Stanāntam hṛidayāntaṁ cha nāvyaṁtaṁ cha navodayam |  
 Kanyasād uttamāntaṁ syāt nava tad utsavodayam |  
 Utsave chārdha-mānena kautukodayam iritam |  
 Tan-mānaṁ chāshṭa-bhāgaikaṁ nava-bhāgāvāsānakam |  
 Kanyasād uttamāntaṁ syān nava-mānaṁ kautukodayam |

(M., LV, 37-46.)

It is measured in the idol's finger :

Mūla-berāṅgulaṁ chaiva mānayed utsavodayam |—(M., LV, 55.)  
 Tat-tan-māna-vaśāt kechin mūla-bera-vaśān nayet |  
 Utsave chotsavaṁ proktam āṅgulaṁ māna-vivataḥ |

(M., LXI, 21-22.)

UTSAVA-MANḌAPA—A festive hall.

See under MAṆḌAPA and cf. :

Gopura-prākārotsava-manḍapair upachitaṁ śrīrāmabhadrāya cha ।

(Kondavidu Inscrip. of Krishnaraya, v. 27,  
Ep. Ind., Vol. vi, pp. 237, 231.)

UTSAVA-VIGRAHA—Images for procession, idols to be carried in procession.

Utsava-vigrahāla samarpimchi—' presented idols to be carried in procession '.

(Kondavidu Inscrip. of Krishnaraya, v. 28, lines 118-119,  
Ep. Ind., Vol. vi, pp. 231, 232, 237.)

UTSEDHA (see MĀNA)—The height called śāntika, pausṭika, jayada, sarvakāmika or dhanada, and adbhuta : they are respectively equal to the breadth,  $1\frac{1}{2}$ ,  $1\frac{1}{2}$ ,  $1\frac{1}{2}$ , and twice of it.

(See *M.*, xxxv, 22-26, under ADBHUTA.)

The height of a buidling is stated to be measured from the basement to the top of the dome :

Utsedhaṁ janmādi-stūpikāntam—(*M.*, xxxv, 26.)

The technical names of the proportions of the height are significant. The first one is called 'śāntika' or peaceful. In this proportion the height is equal to the breadth (*M.*, xxxv line 22) ; and this is aesthetically a graceful proportion. The second one is called 'pausṭika' which might be rendered as strong, eminent, rich, complete, or perfect. In this proportion the height is  $1\frac{1}{2}$  of the breadth (*ibid.*, line 22) ; and this would give the building a good stability. The third one is called 'jayada' or joy-giving. In this proportion the height is  $1\frac{1}{2}$  of the breadth (*ibid.*, line 22) ; and this gives a pleasant appearance to the building. The fourth one has two names, 'sarva-kāmika' or good in every way, and 'dhanada' or wealth-giving. In this proportion the height is  $1\frac{1}{2}$  of the breadth (*ibid.*, line 23) ; and according to the literal meaning of the term 'sarvakāmika' this would make the building strong as well as beautiful. The fifth or last one is called 'adbhuta' or marvellous. In this proportion the height is twice the breadth (*ibid.*, line 22) ; and this would give a wonderful loftiness and gorgeous look to the building.

The comparative height of the component members of an architectural structure is technically called 'gaṇya-māna.' The details thereof will be found under GAṆYA-MĀNA.

Six kinds of measurements are prescribed for an image : māna (full height of the image), pramāṇa (breadth), parimāna (width

or circumference), lambamāna (length by the plumb-lines), unmāna (thickness) and upamāna (measurement of the interspace, e.g. between the two feet, *M.*, LV, 3-9, *see* under MĀNA). Of these, māna or height is stated to be compared with nine objects such as the adytum, door, basement, and the height of the worshipper, etc. (*ibid.*, lines 11-14, *see* under MĀNA). In each case, the height of the idol admits of nine kinds as it is made equal to nine successive parts of the object (*ibid.*, lines 15-33). When compared with the worshipper, it is equal to his full height, reaches his hair-limit (on the forehead), nose-tip, chin, arm-limit (to the shoulder), breast, heart, navel and sex-organ :

Kanyasād uttamāntarṁ syād yajamānodayarṁ param ।  
 Keśāntarṁ nāsikāgrāntarṁ hanvantarṁ bāhu-sīmakam ।  
 Stanāntarṁ hṛidayāntarṁ cha nābhyantarṁ meḍhra-sīmakam ।  
 Navadhā kanyasāntarṁ syāt sthāvararṁ jaṅgamodayam ।

(*M.*, LV, 30-33.)

The height of the riding animals (vāhana) of the gods is divided into two kinds, utsāva and kautuka (*see* details under these terms). The latter is stated to be half of the former, and it does not seem to bear any other independent signification. The former is compared with the height of the main idol, exactly in the same way as the idol is compared with the height of the worshipper (*see* e.g. *M.*, LXIV, 24-28 ; LV, 40-43, under UTSĀVA).

**UDAPĀNA**—A well, a pool or pond near a well.

Ima-kshāyamada-pushkaraṇīnārṁ paśchima-pushkaraṇīrṁ udapāna-ārāma-stambhaḥ ।—(Mathura inscriptions, no. 1, line 2, Cunningham, *Arch. Surv. Reports.*, Vol. III, p. 30.)

*See Bhāgavadgītā*, II, 46.

**UDUMBARA**—The threshold of a house, a door.

(1) Uchchhrāyāt pāda-vistīrṇā śākhā tad-vad udumbarah—'the side-frame of the door has a breadth of  $\frac{1}{4}$  of the altitude ; likewise the threshold.' Śākhā-dvaye'pī kāryarṁ sārḍharṁ tat syād udumbarayoḥ—'the thickness of the two side-frames of a door is as many digits (aṅgulas) as the altitude numbers cubits, one and a half that measure gives the thickness of the threshold and upper timber.'

(*Bṛihat-Saṁhitā*, LIII, 26 ; LVI, 13, Kern, *J.R.A.S.*, N. S., Vol. VI, pp. 284, 318.)

(2) Garbha-griha-udumbara-pramāṇa—'measures of the central hall and the threshold'.—(*Prāsādamaṇḍana-Vāstu-śāstra* of Sūtra-dhāra Maṇḍana, III, MSS., Egg. 3147, 2253 fol. 15a.)

(3) Plaksha-dvāraṃ bhavet pūrvaṃ yāmye chodumbaraṃ bhavet ।  
The back-door should be at the east and the udumbara or front-door  
at the south'.—(*Matsya-Purāṇa*, Chap. CCLXIV, v. 15.)

Tathā dvi-guṇa-vistīrṇa-mukhas tad-vad udumbaraḥ ।

(*Ibid.*, Chap. CCLXX, v. 20.)

(4) Vistārād dvi-guṇaṃ dvāraṃ kartavyaṃ tu suśobhanam ।  
Udumbarau tad-ūrddhvaṃ cha nyasech chhāśṇāṃ (?) sumāṃ  
galaiḥ ॥

Dvārasya tu chaturthāṃśe kāryau chaṇḍa-prachaṇḍakau ॥

Viśvak senāvat sadantau śikhārddhodumbara-śriyaṃ ॥

(*Agni-Purāṇa*, Chap. XLII, vv. 19-20.)

(5) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 20) has the same verse as (1)  
except that it reads 'udumbari' in place of 'udumbaraḥ' in the *Bṛihat-  
Samhitā*.

(6) See jamb ornaments, Chalukya Architecture, *Arch. Surv.*,  
New Imp. Series, Vol. XXI, plates CL, figs. 2, 3.

UDDHṚITA—A synonym of *uttara* or a crowning fillet.

(*M.*, XVI, 56-58, see under *UTTARA*.)

UDBHUTA—A kind of phallus.

(*M.*, LI, 226, 233, 236, 238, 241, see under *LINGA*.)

UDYĀNA (*cf.* ĀRĀMA)—A pleasure-garden.

(1) *Rāmāyaṇa* (Cock) II, 71, 21 :

Eshā nātipratitā me puṇyodyānā yāśasvini ।

Ayodhyā dṛiśyate dūrāt . . . ॥

*Ibid.*, 22-26 :

Udyānāni hi sāvāhne kṛṣṭitvoparatair naraiḥ ॥

Samantād vipradhāvadbhiḥ prakāśante mamānyathā ।

Tānyadyānurudantiva parityaktāni kāmibhiḥ ॥

Araṇya-bhūteva purī sārathe pratibhāti mām ।

Nahyatra yānair dṛiśyante na gajair na cha vājibhiḥ ॥

Niryānto vābhiyānto vā nara-mukhyā yathā purā ।

Udyānāni purā bhānti matta-pramuditāni cha ॥

Janānām rati-saṃyogeshvatyanta-guṇavanti cha ।

Tānyetānyadya paśyāmi nirānandāni sarvaśaḥ ॥

*Ibid.* II, 67, 19 :

Nārājake jana-pade vāhanaiḥ śighra-vāhibhiḥ ।

Narā niryāntyarāṇyāni nāribhiḥ saha kāmīnaḥ ॥

(s) Lilodyāna or pramadodyāna—pleasure-garden, on the Dhārāgiri hill, the scene of the second Art.

(Dhar Prastā of Arjunavarman, lines 6, 12, 31, verse 30, lines 56, 75, *Ep. Ind.*, Vol. VIII, pp. 99-100.)

UNMĀNA (*see* MĀNA)—The measurement of thickness or diameter.

(*M.*, LV, 3-9, *see* under MĀNA.)

Ataḥ-parasṁ pravakshyāmi mānonmānaṁ viśahataḥ |

(*Matsya-Purāna*, Chap. CCLVIII, v. 16.)

Mānaṁ tad-vistaraṁ proktaṁ unmānam nāham eva cha ||

Pramāṇaṁ dīrgham ityuktaṁ mānonmāna-pramāṇataḥ ||

(*Suśrābhoddhama*, XXXIV, 35, 36.)

UPAKĀNTA—A class of the six-storeyed buildings.

(*M.*, XXIV, 16, *see* under PRĀSĀDA.)

UPATULĀ (*see* TULĀ)—A part of the column.

(*Bṛhat-Saṁhitā*, LIII, 30, *see* under TULĀ.)

UPATALPA—An upper storey, a room on the top of a house.

(*Raghu-vaṁśa*, XVI, 11, etc.)

UPADVĀRA—The smaller door.

(*See* MĀnasthā, IX, 306, 309, 354, 360, under DVĀRA.)

Upadvāro(ramu)ktavat kuryād viśṅṅu-dhīparṁ tu paśchime |

(*M.*, IX, 109.)

Chatur-dīkṣu chatur dvāram upadvāram antarālake |

(*M.*, XXXI, 77.)

UPADHĀNA (*see* under ŚAYANA)—A pillow, an article of furniture.

UPAPADA—The upper or dwarf pillar which is subordinate to a larger column.

Upapādāni sarveśhāṁ pūrva (?) mūla)-pāde tu yojayet |

Ekopapāda-saṁhyuktaṁ dvi-try-upapādena saṁhyutam |

Vedopapāda-saṁhyuktaṁ brahma-kāntam iritam |

(*M.*, XV, 239, 242, 244, *see* also 245, 247.)

UPAPIṬHA (*cf.* PIṬHA)—The pedestal, the upper pedestal, the outer surface, a site-plan. The pedestal is the lowest division in an order of columns, called also stylobates and stereobates. It consists of three principal parts—the die, the cornice, and the base.

(1) 'The pedestal is not only placed under the base of a column or pilaster, but frequently employed, both singly and together with the

THE SITE PLANS  
UPA-DĪTHA PLAN OF 25 PLOTS



MARUT	MUKHYA	SOMA	ADITI	ĪŚĀ
ŚOŚHA	RUDRA	BHŪDHARA	APAVATSA	JAYANTA
VARUṆĀ	MITRA	ĀBRAHMĀ	ĀRYAKA	ĀDITYA
SUGRĪVA	INDRA	VIVASVAT	SAVITRA	BHĪŚĀ
PITRI	BHRIŅGA- RĀJA	YAMA	VITATHA	AGNI



latter, as a pavement for temples and porticoes, over cornices of edifices consisting of several storeys in height, and also as a platform for thrones, and as seats for statues.'

In a Tamil fragment of a manuscript, purporting to be a translation of *Māyamata*, it is said that 'the height of the shaft or pillar is to be divided into four parts, and one to be given to the base which may or may not be accompanied by a pedestal, and in the case where a pedestal is joined to the base, the height of the pedestal may be either equal to that of the base, or twice, or three times as much. Here, the greatest height, given to a pedestal, namely, three times that of the base, is equal to a little more than a third part of the highest column, which is not perhaps a bad proportion.'

(Rām Rāz, *Ess. Arch. Hind.*, pp. 23, 26.)

(2) *Kārikāgama*, XXXV :

Tad-varddhitopapiṭhaṁ vā tad-varddhita-masūrakam || (115).

Adhishṭhānādi-śhaḍ-vargaṁ tan-mānaṁ upapiṭhake || (122).

(3) *Suprabhedāgama*, XXXI, 12 :

Piṭhasya tri-guṇaṁ garbhaṁ ta(t)-tri-bhāgaika-bhittikam |

Sarṁvikahya sama-bhūmiś ched upapiṭhaṁ prakalpayet ||

(4) *Mānasāra* :

A site-plan in which the whole area is divided into 25 equal squares (*see* under PĀDAVINĪYĀSA) :

Pañchamaṁ pañcha-pañchāśmīṁ upapiṭham iti smṛitam |

(*M.*, vii, 6.)

Evam sūtra-sthitān devān padasthāś chopapiṭhake |—(*ibid.*, 70.)

In connexion with foundations :

Ekāśmīṁ koṣṭha-bhittiyuchchhra(ya)ṁ ghaṇaṁ prāg-uktavan-  
nayet |

Upapiṭhaṁ pade devān koṣṭhaṁ chokta-kramaṁ nyaset |

(*M.*, xii, 38-39.)

In connexion with the 'pīṭa' or yoni part of the liṅga :

Athavā kumbha-dig-bhāgaṁ padma-tuṅga(m) yugāśmīṁ sakam |

Śeṣaṁ prāg-ukta-vat kuryād upapiṭhaṁ prakalpayet |

The pedestal of the column (*M.*, xiii, 2-156) :

Its situation :

Adhishṭhānante deśe chopapiṭham hi saṁśṛitam | (2)

Its heights (*cf. also Māyamata*, quoted above) :

Ete tattvam adhishṭhānaṁ tach-chatur-āśmīṁ sakam |

Vibhaje tvādimāśmīna ekaikāśmīṁ vivardhanāt |

Tad aśṭāśmīvasānaṁ syāj janmādi-paṭṭikāntikam |



Evam tu chopapīṭhochcharaṁ navabhir bhedaṁ iritam ।  
 Athavā kahudra-harṁye tu chatur-bhāgāśmāṁ unnaṭam ।  
 Dvi-bhāgaṁ vā tri-bhāgaṁ vā chatur-bhāgaṁ athāpi vā ।  
 Pañcha-daśodayaṁ vāpi ri(śā)ntikādi-śarodayaṁ ।

(3-9, see also 10-15, under UṆMĀNA.)

The general description :

Bhāga-pādādi-sarveśhāṁ udgrīvaṁ vāstu-vāśān nyaset ।  
 Pādānāṁ api sarveśhāṁ patrajātibhir alaṅkṛitam ।  
 Antre nāṭakair yuktaṁ padmānāṁ tu dalair yutaṁ ।  
 Chatur-aśrākṛitīṁ chaiva prathamādīn kampa-vājanaiḥ ।  
 Athavā ratna-pushapaś cha patrādyaṁ alaṅkṛitam syāt ।  
 Anyair yuktaṁ svalaṅkṛitya prativājana-deśake ।  
 Prativājanakaṁ teshāṁ kṛite karkarikṛitam ।  
 Anyena vāntaraṁ chaiva vyāla-simbhādi-rūpakaiḥ ।  
 Khaḍgeva frōṇī-sarhyuktaṁ vṛittāśraṁ pushpakair yutaṁ ।  
 Anyānyamuktaṁ cha sarveśhāṁ yuktyā tatraiva yojayet । (145-154).

Sixteen types of pedestals are described under three technical names, details whereof are given below (37-127). (The mouldings are arranged in the successive order, as given in the text, from bottom upwards.)

I. Vedibhadra (lines 27-53) :

(a) 24 parts :	<i>Parts</i>			
(1) Upāna (plinth)	..	..	..	5
(2) Kampa (fillet)	..	..	..	1
(3) Grīva (dado)	..	..	..	12
(4) Kampa (fillet)	..	..	..	1
(5) Vājana (fillet with greater projection)	..	..	..	4
(6) Kampa (fillet)	..	..	..	1
(b) 12 parts :				
(1) Janmaṁ (plinth)	..	..	..	2
(2) Padma (cyma)	..	..	..	1
(3) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(4) Kaṇṭha (dado)	..	..	..	5
(5) Kshepaṇa (projection)	..	..	..	$1\frac{1}{2}$
(6) Padma (cyma)	..	..	..	1
(7) Paṭṭikā (fillet)	..	..	..	$\frac{1}{2}$
(8) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(c) 12 parts :				
(1) Pāduka (plinth)	..	..	..	$1\frac{1}{2}$
(2) Abja (cyma)	..	..	..	$1\frac{1}{2}$
(3) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(4) Grīva (dado)	..	..	..	$5\frac{1}{2}$

			<i>Parts</i>
(5) Kshepaṇa (projection) ..	..	..	$\frac{1}{2}$
(6) Padma (cyma) ..	..	..	$\frac{1}{2}$
(7) Vājana (fillet) ..	..	..	1
(8) Kampa (fillet) ..	..	..	$\frac{1}{2}$
<b>(d) 12 parts :</b>			
(1) Upāna (plinth) ..	..	..	1
(2) Abja (cyma) ..	..	..	..
(3) Kampa (fillet) ..	..	..	$\frac{1}{2}$
(4) Karṇa (ear) ..	..	..	..
(5) Paṭṭika (fillet) ..	..	..	1
(6) Kandhara (dado) ..	..	..	5
(7) Kampa (fillet) ..	..	..	$\frac{1}{2}$
(8) Vājana (fillet) ..	..	..	2
(9) Kampa (fillet) ..	..	..	$\frac{1}{2}$

These are suitable for all kinds of buildings :

Sarva-harmyeshu yogaṃ syād vedibhadraṃ chaturvidham । (52)

II. Pratibhadra (lines 53-89) :

			<i>Parts</i>
<b>(a) 26 parts :</b>			
(1) Janman (plinth) ..	..	..	3
(2) Kampa (fillet) ..	..	..	1
(3) Abja (cyma) ..	..	..	2
(4) Kampa (fillet) ..	..	..	1
(5) Griva (dado) ..	..	..	11
(6) Kampa (fillet) ..	..	..	1
(7) Ambuja (cyma) ..	..	..	2
(8) Kampa (fillet) ..	..	..	3
(9) Antarita (fillet) ..	..	..	1
(10) Prati-vājana (cavetto) ..	..	..	1
<b>(b) 32 parts :</b>			
(1) Janman (plinth) ..	..	..	2
(2) Kshepaṇa (projection) ..	..	..	$\frac{1}{2}$
(3) Padma (cyma) ..	..	..	2 $\frac{1}{2}$
(4) Kshudrābja (small cyma) ..	..	..	$\frac{1}{2}$
(5) Kampa (fillet) ..	..	..	$\frac{1}{2}$
(6) Kandhara (dado) ..	..	..	2
(7) Kampa (fillet) ..	..	..	$\frac{1}{2}$
(8) Abja (cyma) ..	..	..	$\frac{1}{2}$
(9) Paṭṭika (fillet) ..	..	..	2
(10) Padma (cyma) ..	..	..	$\frac{1}{2}$

				<i>Parts</i>
(11) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(12) Kandhara (dado)	..	..	..	10
(13) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(14) Padma (cyma)	..	..	..	$\frac{1}{2}$
(15) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(16) Kandhara (dado)	..	..	..	1
(17) Uttara (fillet)	..	..	..	1
(18) Kshepaṇa (projection)	..	..	..	$\frac{1}{2}$
(19) Ambuja (cyma)	..	..	..	$\frac{1}{2}$
(20) Kapota (corona)	..	..	..	3
(21) Āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(22) Antarita (fillet)	..	..	..	1
(23) Prati-vājana (cavetto)	..	..	..	$1\frac{1}{2}$
 (c) 33 parts :				
(1) Janman (plinth)	..	..	..	$3\frac{1}{2}$
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Padma (cyma)	..	..	..	3
(4) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(5) Kandhara (dado)	..	..	..	$\frac{1}{2}$
(6) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(7) Ambuja (cyma)	..	..	..	$\frac{1}{2}$
(8) Vajrakumbha (round pitcher)	..	..	..	2
(9) Dala (petal)	..	..	..	$1\frac{1}{2}$
(10) Gala (dado)	..	..	..	5
(11) Uttara (fillet)	..	..	..	2
(12) Ardha-kampa (half-fillet)	..	..	..	7
(13) Saroruha (cyma)	..	..	..	1
(14) Kapota (corona)	..	..	..	3
(15) Āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(16) Antarita (fillet)	..	..	..	1
(17) Prati-vājana (cavetto)	..	..	..	$1\frac{1}{2}$
 (d) 33 parts :				
(1) Janman (plinth)	..	..	..	$2\frac{1}{2}$
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Padma (cyma)	..	..	..	3
(4) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(5) Karṇa (ear)	..	..	..	$\frac{1}{2}$
(6) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(7) Ambuja (cyma)	..	..	..	$\frac{1}{2}$

				<i>Parts</i>
(8) Ratna-paṭṭa (jewelled fillet)	..	..	..	$\frac{1}{2}$
(9) Dala (pectal)	..	..	..	$\frac{1}{2}$
(10) Kshepaṇa (projection)	..	..	..	$\frac{1}{2}$
(11) Karṇa (ear)	..	..	..	1
(12) Kshepaṇa (projection)	..	..	..	$\frac{1}{2}$
(13) Ambuja (cyma)	..	..	..	1
(14) Kshepaṇa (projection)	..	..	..	$1\frac{1}{2}$
(15) Kaṇṭha (dado)	..	..	..	11
(16) Uttara (fillet)	..	..	..	$\frac{1}{2}$
(17) Ardha-kampa (half-fillet)	..	..	..	$\frac{1}{2}$
(18) Ambuja (cyma)	..	..	..	2
(19) Kapota (corona)	..	..	..	$1\frac{1}{2}$
(20) Āliṅga (fillet)	..	..	..	$1\frac{1}{2}$
(21) Antarita (fillet)	..	..	..	1
(22) Prati-vājana (cavetto)	..	..	..	1
(23) Vājana (fillet)	..	..	..	$1\frac{1}{2}$

These are suitable for temples, buildings of the Brāhmanas, and palaces of kings (91).

III. Mañchahbadra (lines 90-124) :

(a) 30 parts :

				<i>Parts</i>
(1) Janman (plinth)	..	..	..	3
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Mahāmbuja (large cyma)	..	..	..	3
(4) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(5) Kaṇṭha (dado)	..	..	..	$4\frac{1}{2}$
(6) Kampa (fillet)	..	..	..	$1\frac{1}{2}$
(7) Ambuja (cyma)	..	..	..	$1\frac{1}{2}$
(8) Kapota (corona)	..	..	..	$2\frac{1}{2}$
(9) Prati-vājana (cavetto)	..	..	..	1
(10) Kaṇṭha (dado)	..	..	..	8
(11) Uttara (fillet)	..	..	..	1

and the remaining parts are distributed among the following members :

- (12) Kshepaṇa (projection).
- (13) Padma (cyma).
- (14) Gopānaka (beam).
- (15) Āliṅga (fillet).
- (16) Antarita (fillet).
- (17) Prati-vājana (cavetto).

(b) 31 parts :				<i>Parts</i>
(1) Upāna (plinth)	..	..	..	3
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Saroruha (cyma)	..	..	..	$3\frac{1}{2}$
(4) Kshepaṇa (projection)	..	..	..	$1\frac{1}{2}$
(5) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(6) Karṇa (ear)	..	..	..	$\frac{1}{2}$
(7) Ambuja (cyma)	..	..	..	$\frac{1}{2}$
(8) Gopāna (beam)	..	..	..	$2\frac{1}{2}$
(9) Prati-vājana (cavetto)	..	..	..	3
(10) Gala (dado)	..	..	..	8
(11) Uttara (fillet)	..	..	..	1
(12) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(13) Abja (cyma)	..	..	..	$\frac{1}{2}$
(14) Kapota (corona)	..	..	..	3
(15) Āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(16) Antarita (fillet)	..	..	..	$\frac{1}{2}$
(17) Prati-vājana (cavetto)	..	..	..	$1\frac{1}{2}$
(c) 32 parts :				
(1) Upāna (plinth)	..	..	..	2
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Mahāmbuja (large cyma)	..	..	..	$2\frac{1}{2}$
(4) Kshudrābja (small cyma)	..	..	..	$1\frac{1}{2}$
(5) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(6) Antarita (fillet)	..	..	..	2
(7) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(8) Padma (cyma)	..	..	..	$\frac{1}{2}$
(9) Paṭṭika (fillet)	..	..	..	1
(10) Padma (cyma)	..	..	..	$\frac{1}{2}$
(11) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(12) Gala (dado) ..	..	..	..	5
(13) Uttara (fillet)	..	..	..	$\frac{1}{2}$
(14) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(15) Ambuja (cyma)	..	..	..	$\frac{1}{2}$
(16) Ardha-kampa (half-fillet)	..	..	..	$\frac{1}{2}$
(17) Prati-vājana (cavetto)	..	..	..	$\frac{1}{2}$
(18) Antarita (fillet)	..	..	..	$\frac{1}{2}$
(19) Karṇa (ear)	..	..	..	3
(20) Uttara (fillet)	..	..	..	1
(21) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(22) Padma (cyma)	..	..	..	$\frac{1}{2}$

				<i>Parts</i>
(23) Kapota (corona)	..	..	..	3
(24) Āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(25) Antarita (fillet)	..	..	..	$\frac{1}{2}$
(26) Gala (dado) ..	..	..	..	2
(27) Uttara (fillet)	..	..	..	1
<i>(d) 34 parts :</i>				
(1) Janman (plinth)	..	..	..	3
(2) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(3) Abja (cyma)	..	..	..	$3\frac{1}{2}$
(4) Kshudra-padma (small cyma)	..	..	..	$\frac{1}{2}$
(5) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(6) Gala (dado) ..	..	..	..	7
(7) Antara (fillet)	..	..	..	1
(8) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(9) Padma (cyma)	..	..	..	$\frac{1}{2}$
(10) Arṁśuka (filament)	..	..	..	$2\frac{1}{2}$
(11) Kapota (corona)	..	..	..	$1\frac{1}{2}$
(12) Antara (fillet)	..	..	..	6
(13) Karṇa (ear) and				
(14) Uttara (fillet)	..	..	..	1
(15) Kampa (fillet)	..	..	..	$\frac{1}{2}$
(16) Abja (cyma) ..	..	..	..	$\frac{1}{2}$
(17) Gopana (beam)	..	..	..	3
(18) Vājana (fillet)	..	..	..	2

**Projections (lines 125-144) :**

The projection of the plinth (and other members) is equal to the moulding, larger by one-fourth, one-half, three-fourths, or twice :

Tat-tad-aṅgāni sarveṣhām upānādi tathākṛāmam ।

Tat-samaṁ nirgamaṁ vāpi tat-pādādhikam eva cha ।

Tad ardhādhika-bhāgaṁ vāpi tat tri bhāgādhikaṁ tataḥ ।

Tat samādhikaṁ evaṁ vā pādād upāna-nirgamam । (128-131).

Janma-nirgamam evoktaṁ padma nirgamam ishyate । (138).

The projection of the cyma is not up to twice of it :

Tuṅgaṁ tat-samam evaṁ vā pādādhikyārdham adhikam ।

Pādona dvi-guṇaṁ vāpi padmam evam tu nirgamaṁ । (139-140).

Upamānasya mānena yuktyā padmasya tu nirgamaṁ । (142).

The projections of the other mouldings are (generally) equal to them :

Kshudra-padmaṁ kampaṁ tat-samaṁ vātha nirgamam ।

Paṭṭikādīni sarvaṇi tat samaṁ nirgamaṁ bhavet । (143-144).

The projection of the (whole) pedestal (lines 20-35) :

The height of the pedestal is divided into 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, or 15 equal parts ; of these 1, 2, 3, 4, 5, 6, 7 or 8 parts are projections (lines 20-26). But the choice of that proportion which would make it look beautiful is left to the discretion of the artist :

Pūrvam nirgamaṁ proktaṁ yan-mānoramyam ānayet । (26).

The extent of projection :

Nirgamaṁ chopapiṭhaṁ (ṭhasya) syāt pāda-bāhyāvasānakam । (34).

These pedestals of the Indian architecture may be compared. in the following pages with those of the early European orders for a general knowledge of the subject.

(5) ' Whether the pedestal is to be considered a component part of an order is of little importance. There are so many cases that arise in designing a building. in which it cannot be dispensed with, that we think it useful to connect it with the column and entablature. Vitruvius, in the Doric, Corinthian and Tuscan orders makes no mention of pedestals and in the Ionic order he seems to consider them rather as a necessary part in the construction of a temple than as belonging to the order itself.'—(Gwilt, *Encycl.*, Art. 2601.)

The height of the podium, or pedestal. with its cornice and base from the level of the pulpitum is one-twelfth part of the diameter of the orchestra (in a theatre). The columns on the podium with their capitals and bases. are to be one-fourth of its diameter high. The architraves and cornices of those columns are one-fifth of their height. The upper pedestal including the base and cornice. is half the height of the lower pedestal. The columns on this pedestal are one fourth less in height than the lower columns.'

' The architrave and its cornice are one-fifth of the columns. If there is to be a third order, the upper pedestal is to be half the height of that under the middle order and the architrave and cornice one-fifth of the columns.' (*Vitruvius*, Book V, Chap. vii.)

\*Tables showing the height of pedestals in ancient and modern works

	Plinth (base) in minutes	Mouldings above plinths	Die	Cornice	Total
Doric :					
Palladio	.. 26	14	80	20	= 140
Scamozzi	.. 30	15	88 <sup>4</sup> <sub>7</sub>	22 <sup>1</sup> <sub>2</sub>	= 156 <sup>1</sup> <sub>14</sub>

	Plinth (base) in minutes	Mouldings above plinths	Die	Cornice	Total
<b>Ionic :</b>					
Temple of Fortune					
Virilis ..	44	19½	93½	23¼	= 180½
Coliseum ..	33½	9½	81 <sup>5</sup> / <sub>8</sub>	17	= 141 <sup>7</sup> / <sub>12</sub>
Palladio ..	28¾	14½	97¾	21½	= 162½
Scamozzi ..	30	15	82½	22½	= 150
<b>Corinthian :</b>					
Arch of Constan-					
tine ..	17½	29	153	29½	= 229
Coliseum ..	23	11½	78	19½	= 131¾
Palladio ..	23½	14½	93	19	= 150
Scamozzi ..	30	15	132½	22½	= 200
<b>Composite :</b>					
Arch of Titus ..	55	30	141	29	= 255
Arch of the Gold-					
smiths ..	46	25½	144½	25½	= 241
Arch of Septimus					
Severus ..	30	30 <sup>5</sup> / <sub>8</sub>	140½	29 <sup>5</sup> / <sub>8</sub>	= 231½
Palladio ..	33	17	133	17	= 200
Scamozzi ..	30	15	112½	22½	= 180

'The minutes used in the above table are each equal to 1/60 of the diameter of the shaft.' (Gwilt, *Encycl.*, Art. 2600).

PEDESTALS

	Height in parts of a module	Projection from the axis of column in part of a module
<b>I. In the Tuscan order (Art. 2555) :</b>		
Cornice cymatium. } 1. (Listel) ..		20
6 parts } 2. Ogée ..		4
Dic, 44 parts {	3. Dic or dado 3 modules and	16½
	4. Congé or apophyge	2
Base, 6 parts {	5. Fillet ..	1
	6. Plinth ..	5



		Height in parts of a module	Projection from the axis of column in parts of a module
<b>II. In the Doric order (Art. 2665) :</b>			
Cornice, 6 parts ..	{	1. Listel ..	23
		2. Echinus ..	22½
		3. Fillet ..	21½
		4. Corona ..	21
		5. Cyma reversa ..	18½
Die ..	6. Die, 4 modules.	17	
Base ..	{	7. Congé ..	18
		8. Fillet ..	18½
		9. Astragal ..	19
		10. Cyma (inverted) ..	21
		11. Second plinth ..	21½
		12. First plinth ..	21½
<b>III. In the Ionic order :</b>			
Cornice, 11½ parts	{	1. Fillet ..	35
		2. Cyma rever a ..	34½
		3. Corona ..	33½
		4. Fillet of the drip ..	30
		5. Ovolo ..	29½
		6. Bead ..	27
		7. Fillet ..	26½
		8. Congé ..	25
Die (4 modus) ..	9. Die ..	25	
Base, 10 parts ..	{	10. Congé ..	27
		11. Fillet ..	28
		12. Bead ..	27½
		13. Cyma reversa ..	31½
		14. Fillet ..	33
		15. Plinth ..	33
<b>IV. Corinthian order (Art. 2582) :</b>			
Cornice, 14½ parts	{	1. Fillet ..	33½
		2. Cyma reversa ..	33½
		3. Corona ..	32
		4. Throat ..	30½
		5. Bead ..	26½
		6. Fillet ..	25½
		7. Frieze ..	25
		8. Bead ..	26½

			Height in parts of a module	Projection from the axis of column in parts of a module
Die, $9\frac{1}{2}$ parts	.. {	9. Fillet .. ..	$\frac{3}{4}$	$26\frac{1}{4}$
		10. Congé .. ..	$1\frac{1}{2}$	25
		11. Die .. ..	$87\frac{1}{2}$	25
		12. Fillet .. ..	$1\frac{1}{2}$	25
		13. Congé .. ..	$\frac{3}{4}$	$26\frac{1}{4}$
Base, $14\frac{1}{2}$ parts	.. {	14. Bead .. ..	$1\frac{1}{2}$	$27\frac{1}{2}$
		15. Inverted cyma reversa	3	$26\frac{1}{2}$
		16. Fillet .. ..	1	$30\frac{1}{2}$
		17. Torus .. ..	3	$32\frac{1}{2}$
		18. Plinth .. ..	6	$32\frac{1}{2}$

V. In the Composite order (Art. 259) :

Cornice, 14 parts	.. {	1. Fillet .. ..	$\frac{3}{4}$	33
		2. Cyma reversa .. ..	$1\frac{1}{2}$	$32\frac{1}{2}$
		3. Corona .. ..	3	$31\frac{1}{2}$
		4. Cyma recta .. ..	$1\frac{1}{2}$	$28\frac{1}{2}$
		5. Fillet .. ..	$\frac{1}{2}$	$26\frac{1}{2}$
		6. Cavetto .. ..	1	$25\frac{1}{2}$
		7. Frieze .. ..	5	25
		8. Bead .. ..	1	27
Die, 94 parts	.. {	9. Fillet .. ..	1	$27\frac{1}{2}$
		10. Congé .. ..	$1\frac{1}{2}$	25
		11. Die .. ..	$88\frac{1}{2}$	25
		12. Apophyge .. ..	2	27
		13. Fillet .. ..	1	27
		14. Bead .. ..	1	$27\frac{1}{2}$
		15. Inverted cyma reversa	3	$30\frac{1}{2}$
		16. Fillet .. ..	1	$31\frac{1}{2}$
		17. Torus .. ..	3	33
		18. Plinth .. ..	4	33

On the comparison of the pedestals employed in the early periods of Indian and European architecture, Rām Rāz and others are of opinion that 'the most finished specimens of them (Indian pedestals) may be justly said to surpass anything of the kind in the Grecian or Roman orders, both in the beauty of their proportions and the richness of their ornament.'—(Rām Rāz, p. 23.)

(6) See Raṅganātha inscription of Sundarapāṇḍya.—(Verse 19, *Ep. Ind.*, Vol. III, pp. 13, 16.)

The ends of the ring (of the Konkadara plates of Allava-Dodda) are secured in the crescent-shaped base of an oblong pedestal which bears a recumbent figure of the sacred bull Nandin, with the symbols of the sun and the moon in front of it.—(*Ep. Ind.*, Vol. v, p. 53.)

(7) 'One lower pedestal (upapiṭha), on which this image stood, set with jewels (and measuring) one muṣam and eleven viral in length, three-quarters (of a muṣam) and five viral in breadth, and seven viral in height.'—(Inscription of Rajaraja, no. 94, para. 6, *H.S.I.I.*, Vol. II, p. 144.)

(8) 'One pedestal (having or called) an auspicious mark (bhadra). 'The word, bhadra, occurs in two other inscriptions in the description of a pedestal (above, p. 223, para. 4; p. 225, para. 4).'—(*V.S.I.I.*, Vol. II, no. 79, para. 4, p. 398, note 2.)

(9) See *Essay on Arch. of Hind.*, Rām Rāz, Plate I, figs. 1-12.

(10) See pedestal of statue inside the great temple at Gaya, Cunningham, *Arch. Surv. Reports*, Vol. I, Plate v, p. 6, *ibid.*, Vol. IX, Plate III (plan and section of pedestal for statues).

**UPABHAVANA**—A sub-temple.

'Caused to be erected a sub-temple (upabhavana) adorned with the images of Hari and Ganeśa'.—(*Ep. Carnat.*, Vol. v, Part I, Araikere Taluq no. 79, Transl., p. 142, last two lines.)

**UPAMĀNA**—The measurement of the interspace.

(*M.*, LV, 3, 9, see under MĀNA.)

**UPALEPANA**—Plastering.

Tad-vasati-sambandhi-nava-karmmottara-bhāvi-khaṇḍa-sphuṭita-sam-mārjjanopalepana-paripālanādi I—(Konnur Inscrip. of Amoghavaraha I, line 37, *Ep. Ind.*, Vol. VI, pp. 31, 36.)

Deva-griham karāpya punas tasya upalepana I—(Buchkalā Inscrip. of Nāga Bhaṭṭa, lines 17-18, *Ep. Ind.*, Vol. IX, p. 200.)

**UPAVANA**—A pleasure-garden, a planted forest.

Upavanam atha chakre tena meghesvarasya sphurita-kusumareṇu-śreṇi-chandrātapa-śrī I

Avirata-makaranda-syanda-sandoha-varshair ddhṛita-rati-patillāyan-tradhārāgrihatvam II—(Two Bhuvanēśvar Inscriptions, no. A of Svapneśvara, v. 26, *Ep. Ind.*, Vol. VI, p. 202.)

**UPAVĀSANA**—A coverlet, an upper garment.

**UPAVEDI**—The upper or the smaller pedestal, a seat or dāis.

Suddha-toyena sampūrya vedikopari vinyaset I

Upavedyopari sthāpya choktavach chāśhta-maṅgalam I

(*M.*, LXX, 41, 45.)

**UPASATHĀGĀRA**—A building belonging to a Buddhist monastery used for the performance of the priestly ceremony of confession, in which every member of the order is to acknowledge the faults he has committed.—(Childer's *S. V.*, Kern, quoted by W. Geiger: *Mahavamsā*, p. 296.)

**UPASTHĀNA** (*cf.* *Āsthāna-maṇḍapa*)—A reception-room.

'The meritorious gift of a reception-room (*upasthāna*) by the two men —(Junnar Inscriptions, no. 2, *Arch. Surv.*, New Imp. Series, Vol. iv, p. 92.)

**UPASTHĀNA-BHŪMI**—A hall of audience.

*Yasyopasthāna-bhūmi . . .* 'whose hall of audience.'—(Kahaun Stone Pillar Inscript. of Skandagupta, line 1, *C. I. I.*, Vol. III, *F. G. I.*, no. 15, p. 67.)

**UPĀNA**—A rectangular moulding, a fillet; it corresponds, in the import of the term and the purpose to which it is applied, to the plinth or the lower square member of the base of a column or the projecting base of any moulding (*cf.* *Rām Rāz*, *Ess. Arch. Hind.*, p. 25).

Atha vakshyāmi śaṅkshepāt pāda-mānaṃ yathā-vidhi |  
Uttaropānah(-y)or madhya-gatam etat prakīrtitam ||  
Apparently 'upānaha' is used in the sense of 'upāna.'

(*Vāstu-vidyā*, ed. Ganapati Śāstri, IX, 1.)

The bottom of the foundation-pit :

Tat-pāda-mūle deśe vā tathopāna-pradeśake |  
Kuḍya-stambhe gṛiha-stambhe harmya-garbhāṃ vinikshipet |

(*M.*, XII, 130-131.)

The moulding (plinth) at the bottom of a pedestal, it is also called

*Janman* :

Utesedhe tu chatur-viṃśat pañchāśāsam upānam Iritam |  
Ekena kampam ityuktāṃ grīvochcharṇ dvā-daśāśāśakam |  
Kampam ekaṃ tu vedāśāśāṃ vājanāṃ kampam aśāśakam |  
Vedibhadram iti proktam athavā dvā-daśāśāśakam |  
Janma dvayāśāśakāṃ padāṃ kampam ardhena kīrayet |

(*M.*, XII, 36-40, see the lists of mouldings under UPAPĪṬHA.)

The similar moulding of the base is also called 'janman' :

Eka-viṃśāśāśakāṃ tuṅge kahudropānaṃ śivāśāśakam |  
Janmādi-vājanāntarā cha sapta-viṃśāśāśam uchchhrayet |  
Dvi-bhāgaṃ janma-tuṅgaṃ syāt tat-samāṃ chāmbujodayam |

(*M.*, XIV, 44, 65-66.)

It is also called *pādaka* and *vapra*, see the lists of mouldings under ADHISHTĀNA.

UBHAYA-CHAṆḌITA—A site plan of one hundred and sixty-nine square plots.

(*M.* VII, 15-16, cf. PADA-VINYĀSA.)

URAGA-BANDHA (*See* under ADHISHṬHĀNA)—A class of bases. It has four types differing from one another in the height and number of the mouldings. (*See* the details under ADHISHṬHĀNA.)

It is shaped like the face of a snake (*uraga*) and is furnished with two *pratis* at the top (*M.*, XIV, 44). The pitcher-shaped moulding of this class of bases is circular or round.—(*M.*, XIV, 45.)

USHṆISHA—The top of a building, a diadem, a crownet, the top knot on the Buddha's head.

(1) *Mānasāra* :

The top of a building :

Śālāvṛite śālākūṭe cha nḍe cha śikhare chordhva-kūṭake |

Lupā-yukta-bhramākāre tat-tad-ushṆisha-deśike |

. . . Stūpikāvāhanam bhavet | (*M.*, XVIII, 333-334.)

The top knot on the crown of a Buddhist image :

Bauddhasya lakṣaṇam vakshye samyak cha vidhinādhunā |

Dvi-bhujam cha dvi-netram cha choshṆishojjala-maulikam |

(*M.*, LVI, 1, 10.)

The crown of the statue of a devotee (*bhakta*) :

UshṆishāt pāda-paryantam bhāvottara-śatārnśakam |

UshṆisham tu chatur-mātram netrāntam tu yugāṅgulam |

(*M.*, LIX, 14-15.)

Referring to the situation of the plumb-lines :

UshṆisha-madhyame chaiva lalāṭam(sya) chaiva madhyame |

UshṆishāt tu yathā pārśve lalāṭasya tu pārśvake |

UshṆishāt pūrva-pārśve tu yathoktam netra-madhyame |

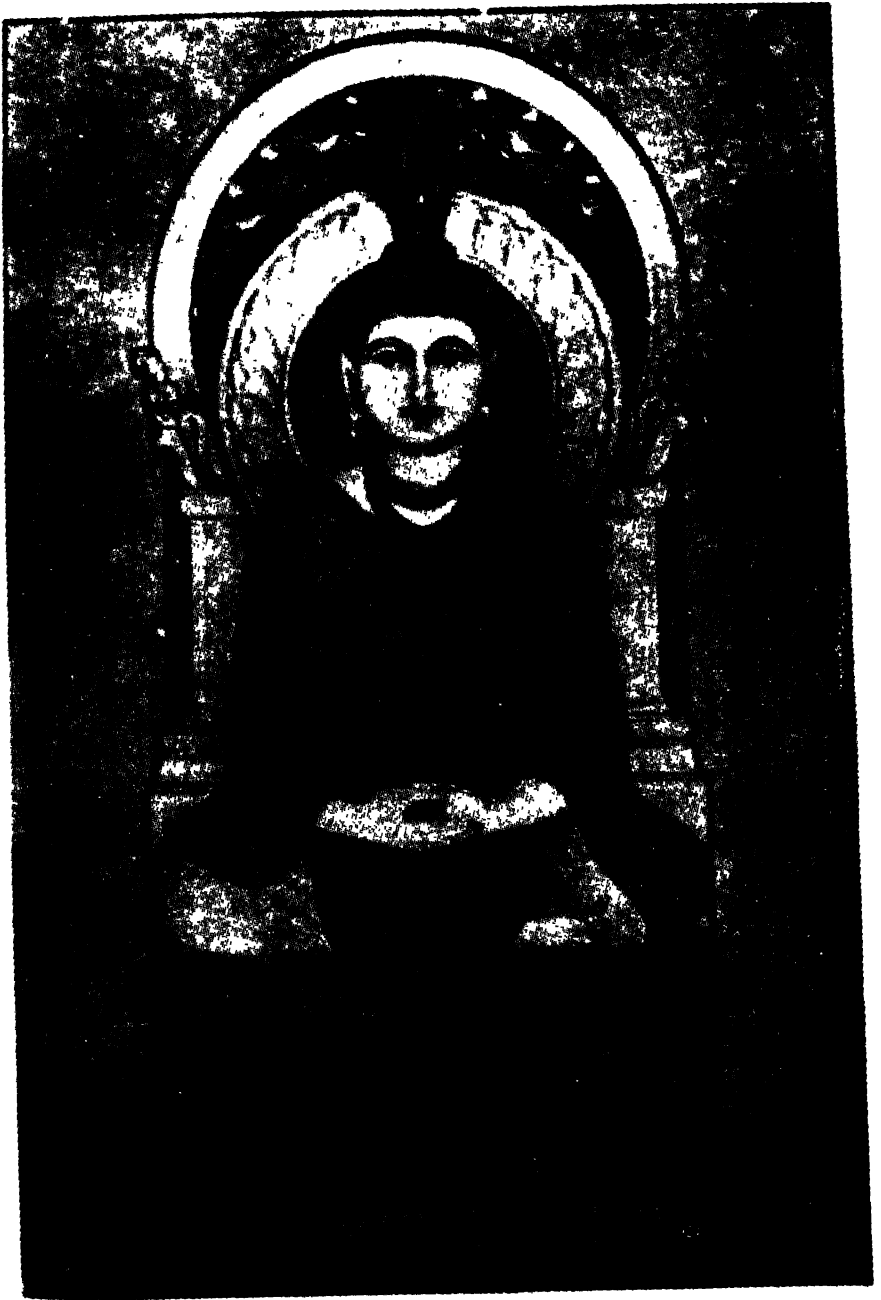
(*M.*, LXVII, 98, 103, 107.)

(2) The word 'ushṆisha' usually means a turban, but is used by the Buddhists as a technical term for the top knot on Buddha's head, by which all figures of him are distinguished : 'he is never represented in Indian sculpture with any sort of covering on his head.' Dr. Burgess.—(*Ind. Ant.*, Vol. IX, p. 195, note 3.)

USHṆISHĪ—A type of round buildings.

(1) *Agni-Purāna*, Chap. CIV, vv. 17-18 (*see* under PRĀSĀDA).

(2) *Garuḍa-Purāna*, Chap. XLVII, vv. 21, 23, 28-29 (*see* under PRĀSĀDA)



**Ushnisha**

*[ to face p. 90*



## U

UHĀPOHA—Philosophically ‘uha’ implies a conjecture, a guess, ‘a hypothetical reasoning which helps the right recognition,’ hence architecturally an additional moulding or member to fill up any unspecified gap; ‘apoha’ or ‘pratyūha’ means ‘a removal,’ hence leaving out a moulding, or an architectural member to complete a structure. Thus the former implies the addition and the latter the omission of a moulding.

(1) *Mānasāra* :

In connexion with the ground-plan :

Ajñānād aṅga-hīnaṁ cha kartā chaiva vinaśyati ।

Tasmāt tu śilpiḥ prājñair ūhāpohān na yojayet ।

(*M.*, vii, 268-269.)

Referring to two-storeyed buildings :

Sarveśhām devatā-harmye pūrvavad devatāḥ nyaset ।

Ukta-vach chhāstra-mārgeṇa ūhāpohena yojayet ।

(*M.*, xx, 105-106.)

In connexion with penalties for defects in important members :

Ūhāpohādi-kṛtibhyāṁ śāstrokte tu yad(th)ā tathā ।

Uhi(ūha)-hīnā chokta-hīnā tvadhikartṛi(tā) vinaśyati ।

Tasmāt tu śilpa-vidvadbhiḥ parigrahoktavat kuru ।

(*M.*, lxxix, 66-68.)

(2) *Kāmikāgama*, *XLI* :

Sabhāvad vihitā bāhye prāsādavad alaṅkṛitā ।

Ūha-pratyūha-samyuktā yā sabhā sā cha mālikā ॥ (3).

Antara-prastaropetaṁ ūhā-pratyūhā-samyutam ॥ (13).

*Ibid*, *XLI* :

Ūha-pratyūha-samyuktam yathā-yukti yathā-ruchi ॥ (37).

(3) *Suprabhedāgama*, *XXXI*, 71 :

A quadrangular moulding of an arch :

Vṛitter ūrdhve u(ū)hām kṛitvā chatur-āyatam eva tu ॥

(For the context, see vv. 68-70, under TORANA.)

(4) *Mahābhārata*, I, 3, 133 :

Nāgalokam . . . aneka-vidha-prāsāda-har mya-valabht-  
niryūha-śaṭa-saṅkulam ।



URDHVA-DHĀRAṆA—A kind of phallus and pedestal combined.

In connexion with the phallus :

Berasyaika-śilā proktaṃ liṅgānāṃ tach-chatuḥ-śilā !

Nandyāvarta(ā)-kṛtīḥ sthāpyā tathā chaikāśmanā bhavet !

Atho(dhaḥ) pāshāpa-kurmākhyāṃ chordhva-dhāraṇam iti smṛi-  
tam ! (M., LI, 176-178.)

URDHVA-ŚĀLĀ (see ŚĀLĀ)—The upper room or hall.

Referring to two-storeyed buildings :

Nānā-gopāna-saṃyuktaṃ kshudra-nāsyair vibhūsitam !

Ardha-śālā-viśeṣho'sti chordhva-śālā-samanvitam !

(M., xx, 66-67, etc.)

UVARAKA—A kind of room, an inner room, a store room, an apartment.

Rāmadattasya deya-dhamās cha bhikshu-gṛihaṃ uyarakaś cha-  
bharyāyāḥ sa velidattāyā deyadharmā uyarakaḥ !

A dwelling for the ascetics and an uyaraka (has) been dedicated as a charitable gift by Rāmadatta . . . and an uyaraka (has been given) as a charitable gift by his wife Velidata (Velidatta), whose husband is alive.

'Uyaraka apparently corresponds with *ūvaraka* of Nāsik no. 24. Transactions of Congr. 1874, p. 347, which Professor Bhāndārkar renders by *apartment*. Childers' *Pali Dict.* gives *ovaraka* with the meaning of *inner or store room* and this explanation fits here also very well.'—Prof. H. Jacobi.—(*Ind. Ant.*, Vol. vii, Kudā inscriptions, no. 8, p. 256.)

## ṚI

RIKSHA-NĀYAKA (see SĪMHA)—A kind of round buildings.

(*Agni-Purāṇa*, Chap. CIV, vv. 19-20, see under PRĀSĀDA.)

## E

EKA-TALA(-BHŪMI) (see under PRĀSĀDA)—A single-storey building, the ground floor.

Āhatyam (vibhajya) aṣṭadhā harmyāṃ gaṇya-mānam ihochyate !

Utsedhe chāśṭa-bhāge tu chāṃśena maśurakam !

Dvi-bhāgaṃ chāṅghrikottuṅgaṃ mañcham ekena kārayet !

Kandharaṃ tat-samaṃ kuryāt tad-dvayaṃ śikharodayam !

Tad-ardhaṃ stupikottuṅgaṃ vaktraṃ śaḍ-vidham iritam !

(M., XIX, 20-24.)

Athavā manu-bhāgaṁ tu harmya-tuṅga(m) vibhājite |  
Sa-tri-pādam adhishṭhānaṁ tad-dvayaṁ chāṅghri-bhājite(-kon-  
natam) |

Tad-ardhaṁ prastarotsedhaṁ yugārṁsaṁ grīva-tuṅgakam |

Tad-ardhaṁ śikharottuṅgaṁ tad-ūrdhve stupikārṁśakam |

Grīva-mañchordhvam aṁśena yatheshṭādhishṭhāna-samyutam |

Ūrdhve pādodaye bandhaṁ(=4)bhāgam ekāṁsa(m)-vedikam |  
Śeshaṁ purvavat kuryād aṣṭa-varga-vido viduḥ |—(*Ibid.*, 80-86.)

Evam proktaṁ harmyāke madhya-bhadram |

Śālā-koshṭhaṁ dig-vidike kūṭa-yuktam |

Hārā-śrāntā-nāsikā-pañjarāḍhyam |

Kuryāt sarvaṁ vedikā-bhadra-yuktam |

Harmya-tāra-samaṁ chatur-aśrakam tat-tri-pādam ardhama athāpi  
cha | —

Kuḍya-tāra-samādi (?) yathā-kramam |

Kanyasaṁ tri-vidhaṁ mukha-maṇḍapam |

Tan-mukha-maṇḍapaṁ mukhya-vimāne |

Madhya-vimānasya maṇḍapa-pārīve |

Ambaraṁ daṇḍam atha dvayam |

Harmya-vaśād upaveśana-yuktam |

Yat tat kshudra-vimāne tan-mukhe maṇḍapam syāt |—(*Ibid.*  
192-203.)

Anyamaṇḍapa-deśe yan-mānoramyam alaṅkṛitam |

Maṇḍape prastarasordhve karpa-harmyādi-maṇḍitam |

Yat tan nāmāntarāṅgarā chordhve nāsikā jāla-pañjarāṅga vāpi |

Tat-tan-maṇḍapa-madhye prāsāda-vaśād dvāra(m)-sarkkalpyam |

Pūrvavat kavāṭa-yuktaṁ maṇḍapasyāntaḥ sa-kīla-yuktam |

(*Ibid.*, 213-217.)

Eka-bhūmim kuryād adhikaṁ chopapīṭha(m) ruchirārtha(m)  
sam-yutam |

Sopapīṭha-bhavanair yutaṁ tu vā kārayet tu kathitaṁ purātanaṁ |

Evam sarva-harmyālaṅkāra-yuktyā nānā-pādair vedikā-tāra-maṅ-  
chaṁ (kuryāt) |—(*Ibid.*, 258-261.)

**EKATĀLA** (*see under TĀLA*)—A kind of sculptural measurement.

**EKA-PAKSHA** (*cf.* DVIPAKSHA)—One side, a road or wall having  
the footpath on one side only.

Antar-vīthi chaika-pakshaṁ bāhya-vīthi dvi-pakshakam |

(*M.*, IX, 336.)

Anyat śālaṁ tu sarveśaṁ chaika-pakshālaya-kramāt |

Anyat śālaṁ tu sārveśaṁ śālayārthaṁ dvi-pakshakam |

(*M.*, XXXVI, 86-87.)

*See also M.*, IX, 351-354, 465, under DVI-PAKSHA.

**EKA-LIŅGA**—The single phallus as opposed to phalli in group.

Sarveshām chaika-harmye tu ekaika-liṅge tu saṁmatam ।  
Bahudhā sarva-liṅgeshu tat-tri-karṇam na kārayet ।  
Dvi karṇam bahu liṅge tu tri-karṇam-chaika-liṅgake ।  
Evaṁ tu chaika liṅgam syād vistāram parikṛitam ।

(*M.*, LI, 71-73, 82.)

**EKA-SĀLĀ**—Mansion consisting of one row of buildings.

(*M.*, XXXV, 9, 35.)

**EKA-HĀRĀ** (*cf.* HĀRĀ)—With one chain-like ornament below the neck of the column, head or astragal.

In connexion with a single storeyed building :

Śālā-kūṭa-dvayor madhye chaika-hārā sapañjaram ।—(*M.*, XIX, 57.)

**EKĀDAŚA-TALA**—An eleven-storeyed building, the eleventh storey.

Tad-adhastāt talaṁ chaika-daśa dvā daśa-bhūmikam ।

(*Kāṁikāgama*, XXXV, 86.)

Śesha-bhāgam tu sarveshām yuktyā tatraiva yojayet ।  
Evaṁ vistāra-gaṇyam syāt tuṅga-gaṇyam ihochyate ।  
Janmādi-stūpi-paryantaṁ uktavat saṁgrahaṁ viduḥ ।  
Eka daśamśa-bhāgena daśa-talodayādhikam ।  
Tad eva sārḍha-bandh(v)amśam masūrakottungam ishyate ।  
Saptāṁsam pāda-dīrgham syāt tad-ardam prastarodayam ।  
Śesham prāg-uktavad gaṇyam ekā daśa-talodaye ।  
Talordhvordhva-tale sarve karṇa-harmyādi-maṇḍitam ।  
Eka-bhāga-dvi-bhāgam vā parito'lindam ishyate ।  
Nānādhishthāna-saṁyuktam nānā-pādair alaṅkṛitam ।  
Śālā-kūṭaiś cha uktavat samalaṅkṛitam ।  
Hārāntare kūṭa-śālā cha grīva-deśokta-devatān(h) ।  
Anu-śālāśṣṭa-dik-pālās tat-tad-vāhana-saṁyutam ।  
Yaksha-vidyādharaḍīnām garuḍādīni vinyaset ।  
Gaṇetyādi gaṇaiś chaiva sarva-harmyeshu nikshipet ।

(*M.*, XXXI, 35-49.)

**ETAKA-PADAKA-PĪṬHA**—A chair raised on a pedestal.

(*Mahāvogga*, V, 10, 2.)

**EVAMKĀNTA**—A column connected with one, two or three minor pillars, and having a lotus-shaped base.

Ekopapāda-saṁyukt m dvi-try-upapādena saṁyutam ।  
Evaṁ-kāntam iti proktaṁ mūle padmāsanūnvitam ।

(*M.*, XV, 242-243.)

## AI

**AIRĀVATA**—The great elephant, the riding animal (vāhana) of the god Iśa (? Indra).

Iśa mūrtim iti dhyātvā rakta-varṇam cha śiṣpatam (Śachipatim) |  
Dvi-bhujam dvi netram cha rathairāvata-vāhanam |

(*M.*, vii, 190-191.)

A class of the five-storeyed buildings.

(*M.*, xxiii, 3-12, see under PRĀSĀDA.)

## K

**KAKSHA**—The armpit of an image, a residential room.

Kakshayor antaram tāram vimśa-mātram praśasyate |

(*M.*, lix, 29.)

Eka-vimśāngulaṁ chordhve kakshayor antara-sthalc |

(*M.*, lxxv, 52, etc.)

**KAKSHA-BANDHA**—A class of bases.

See the four types, the component mouldings and other details under  
ADHISHṬHĀNA.—(*M.*, xiv, 320-358.)

**KAṬA**—A mat of split cane or bamboo.

(*Taitt. Sam.*, v, 3, 12, 2 : *Śat. Brā.*, xiii, 3, 1, 3.)

**KAṬAKA**—An architectural ornament (like a ring) of a base, a bracelet for an image, camp, capital.

Madhye paṭṭair viśeṣam tu pushpa-ratnāis cha śobhitam |

Kaṭakāvṛitam eva vā śuddha-vṛittam athāpi vā |—(*M.*, xiv, 75-76.)

Compare also the list of mouldings under ADHISHṬHĀNA.

Vṛittam vidhim tri-paṭṭam vā dhārāya kaṭakānvitam |—(*Ibid.*, 238.)

Etat tu chitra-kalpaṁ (=an ornament) tu nāṭakābhi(kai)r alaṅkri-  
tam |—(*M.*, I, 11.)

Keyūra-kaṭakair yuktaṁ prakoṣṭha-valayaṁ tathā |—(*M.*, liv, 13.)

See also *M.* LI, 57, under KAṬI-SŪTRA.

In connexion with the plumb lines :

Śaktinām pushpa-hastaṁ tu stanāntaṁ kaṭakāgrakam |

Tad-aṅguṣṭhāvasānāntaṁ cha dvyantaraṁ chatur aṅgulaṁ |

(*M.*, lxxvii, 135-136.)

‘One pair of bracclets (kaṭaka) for the arms of the goddess (consisting of) fifty-six karānju, two manjādi and (one) kunri of gold.’—(*Inscriptions of Rajaraja*, no. 2, line 37, *H.S.I.I.*, Vol. II, p. 19.)

' One pair of bracelets (kaṭaka) for the arms of the goddess, consisting of thirty-nine karānju and seven manjādi of gold.'—(Inscriptions of Rajendra-Chola, no. 8, line 19, *H. S. I. I.*, Vol. II, p. 89.)

Astyuttara-giri kaṭake (declivity of the Northern Mountain) Vijaya-puam-nāmā nripa-dhāni ।—(Grant of Jayaditya of Vijaya-pura, line 6, *Ind. Ant.*, Vol. XXI, p. 170.)

' In the world-renowned Raya-chalukya's camp (or capital, kaṭaka), the bodyguard Keṭa-nāyaka gained unlimited fame and the greatest reputation for energy and readiness.'—(*Ep. Carnat.*, Vol. V, Part I, Chanarayapatna Taluq, no. 210 ; *Tranal.*, p. 216, line 9 of no. 210.)

**KATAKĀKĀRA**—An ornament shaped like a bracelet or ring.

Referring to lupā or a pent-roof :

Evam cha lakṣaṇaṁ proktaṁ kaṭakākāram tu vojayet ।

(*M.*, xviii, 249.)

**KATĪ**—The hip-part of a building, the hip of an image, a flight of steps.

(1) Yo vistāro bhaved yasya dvi-guṇā-tat-samunnatiḥ ।

Uchchhrayād yas tritīyo'mśas tena tulyā katir bhavet ।

' The height of a building should be twice its width and its kaṭi (*lit.* hip) should be (equal to)  $\frac{1}{3}$  of its height.'—(*Bṛihat-Saṁhita*, lvi, 11.)

Dr. Kern translates 'kaṭi' by 'the flight of steps' (*J.R.A.S.*, N. S., Vol. VI, p. 318); but in this sense the word never occurs in dictionaries or literature; nor does this rendering suit the context here, first, because the description concerns a single-storeyed building, where the flight of steps, if there be any at the entrance, would not be usually one-third of the height of the whole building; secondly, the measures of the flight of steps mostly in buildings of more than one storey are never considered in any architectural treatises as being dependent on the height of the building or the storey.

(2) Chatuḥ-shaṣṭi-padaṁ kṛtvā madhye dvāraṁ prakalpayet ।

Vistārād dvi-guṇochhrāyaṁ tat-tri-bhāgaḥ kaṭir bhavet ॥

(*Matya-Purāṇa*, Chap. cclxx, v, 18.)

(3) *Bhavishya-Purāṇa* (Chap. cxx, v, 18) has the same verse as (1), except 'tasya' in place of 'yasya' in the first line, and 'atha' for 'aihsa' in the second line. *Bṛihat-Saṁhita* seems to have improved the lines.

(4) In the sense of the hip or buttocks :

Kaṭi(6) chorū-viśālaṁ syān madhya-kāñchina-lambavat ।

(M., LIV, 91.)

Kaṭi-tāraṁ bhāskarāṁśam syād aśṭāṁśaṁ chorū-viśṛitam ।

Mukhaṁ vakshaś cha kukśiś cha kaṭi-dīrgha dvādaśāṁśakam ।

(M., LVII, 32, 55.)

Viśāṁśam cha kaṭi-tāraṁ ūrdhve śroṇi-viśālakam ।—(M., LXV, 48.)

**KAṬI-SŪTRA**—The (plumb) line by the hip or buttocks, a girdle.

Kaṭi-sūtrāvasānaṁ syāt pura-sūtram iti śmṛitam ।

Kaṭi-sūtraṁ tu saṁyuktam kaṭi-prānte sa-pāṭṭikā ।—(M., L, 21, 27.)

Tasmāt kaṭi-sūtrāntaṁ sapta-viśāṅgulaṁ bhavet ।

Trayodaśāṁśakaṁ chaiva kaṭi-sūtram tū viśṛitam ।

(M., LXV, 150, 164.)

A girdle.

Kaṭakam kaṭi-sūtraṁ cha keyūraṁ ratna-pūritam ।—(M., LI, 57.)

**KANṬHA**—Also called 'gala,' 'griva,' 'kandhara,' meaning literally the neck or throat. This is a quadrangular moulding, sometimes square and sometimes rectangular. 'When employed in pedestals (see the lists of mouldings under UPAPĪṬHA), it is made very high and it resembles the dado (or the portion of a pedestal between its base and cornice, also applied to the lower portions of the walls). But everywhere else it serves as a neutral member from which the projection of the rest of the mouldings are generally measured.'

(Rām Rāz, *Ess. Arch. Hind.*, p. 25.)

The neck of a column (*Suprabhedāgama*, XXXI, 58, see under STAMBHA).

Tuṅge triṁśati-bhāgena . . . ।

Tad-ūrdhve kaṅṭham aśṭāṁśam . . . ।—(M., XIII, 90, 94.)

Utsedhe tu chatur-viṁśat . . . ।

Grivochchaṁ dvā-daśāṁśakam ।—(*Ibid.*, 36-37.)

Tad-evāṁśena . . .

Pañcāṁśa(m) kandharaṁ proktaṁ . . .—(*Ibid.*, 48, 50.)

Tad-evāṁśa (of 30 parts) . . .

Tad-ūrdhve galam aśṭāṁśam . . .—(*Ibid.*, 97, 101.)

For further examples, see the lists of mouldings under UPAPĪṬHA.

Gala-tuṅgaṁ yugāṅgulaṁ ।

Gala-tāraṁ sārddham aśṭāṁśam . . . ।—(M., LIX, 71, 81.)

For further examples, see the lists of limbs under TĀLA-MĀNA.

**KADĀṄG.** —A large trench, a ditch, a boundary mark.

‘Kadāṅgas or war-trenches are described in the Rev. G. Ritcher’s *Manual of Coorg* (pp. 190–191) : these are enormous trenches defended by a bank of the excavated soil, and stretch over hills, woods, and comparatively flat countries, for miles and miles, at some place branching off in various directions, or encircling hilltops. Mr. Ritcher quotes old records to show that they were constructed by ancient Rājās to fortify the principality. In South Kanara also these trenches abound.’

‘So, too, great and massive walls, 8 feet high, half as thick, and extending for long distances, are found buried in deep forest on the crest of the ghats between Kanara and Maisur, with large trees rooted in them.’ (See CRĀMA and compare the above with the surrounding defensive ditches of the village as given in the *Mānasāra*.)

(*Ind. Ant.*, Vol. iv, p. 162, c. 1., last para. line 2 f. ; c. 2, line 6.)

‘From this it appears to follow that the Coorg Kadāṅgas or large trenches, originally were intended for landmarks.’—(Three Kongu inscriptions, no. II, *Ind. Ant.*, Vol. vi, p. 103, c. 1, line 29, Transl. and footnote, last para.)

**KANDARA-GRIHA** (see DARI-GRIHA)—A cave-house.

Khyātaraṁ (? syātaraṁ) kanakādi-kaṇḍaragṛihodirṇa-pratāparaṁ divi  
khyātaraṁ naikavaṇig-viśāla-bibhavo bhūtābhīsobharaṁ śubham ।

(Description of the town of Āṭapura, Āṭpur inscrip. of Śaktikumāra, v, II, *Ind. Ant.*, Vol. xxxix, pp. 191, note 25, 187.)

**KANDHARA**—The neck, the dado.

See KANṬHA and compare the lists of mouldings under UPAPĪṬHA.

**KANYĀ**—A girl, a virgin, the name of a month, the lower part of an architectural object.

Lupāraṁ prāg-ukta-vistāraṁ tat-tad-vaṁśāṅghri-kāntakam ।  
Adho(aḥ)-pādasya lupādyaiś cha tatra dośho na vidyate ।  
Karaṇāt kanyāvasānaṁ syān nava-sūtraṁ prasārayet ।

(*M.*, xviii, 231–233.)

**KAPĀṬA** (see KAVĀṬA)—A door, the panel of a door.

Kapāṭa-toraṇa-vatim suvibhakāntarāpaṇam ।—(*Rāmāyaṇa*, I, 5, 10.)

Dṛiḍha-baddha- kapāṭāni mahāparighavanti cha ।—(*Ibid.*, vi, 3, 11.)

**KAPOTA**—A pigeon, a section of circular moulding made in the form of a pigeon’s head, from which it takes its name. It is a crowning

member of bases, pedestals, and entablatures. Compare the lists of mouldings, from the *Mānasāra*, given under UPARIṬHA (where Kapota occurs eight times), ADHISTHĀNA (fifteen times), and PRASTARA (five times) and also see Gwilt (*Encycl. of Arch.*, Art. 2532, 2555, pp. 806, 813-814). When employed in the entablature, it serves the purpose of a spout in the shape of a pigeon's beak to throw off water falling on the cornice. In this office it resembles, in some measure, the corona having a broad vertical face and with its soffit or under portion recessed so as to form a drip which prevents water running down the building. Its synonyms are : *vakra-hasta* (face supported by hanā, wherefrom it takes its shape), *luṇā* (pent-roof), *gopānaka* (beam), and *chandra* (the moon). (Also see *M.*, XVI, 18-20.)

(1) *Mānasāra* :

Referring to the pedestal :

Tad-dvayaṁ chāmbujam chordhve kapotochchaṁ guṇāśakam ।

(*M.*, XIII, 57.)

For further illustrations, see the lists of mouldings under UPARIṬHA.

Referring to the base :

Padmam aṁśam tad-ūrdhve tu kapotochchaṁ tri(y)amśakam ।

(*M.*, XIV, 357.)

For further illustrations, see the lists of mouldings under ADHISTHĀNA.

Referring to the entablature :

Tad-ūrdhve vājanam chaikam dhātu-bhāgam kapotakam ।

(*M.*, XVI, 27.)

For further illustrations, see the lists of mouldings under PRASTARA.

A synonym of the entablature :

Kapotam prastraṁ chaiva mañcham prachchhādanam tathā ।

. . . paryāya-vāchakāḥ ।—(*Ibid.*, 18, 20.)

Referring to the six-storeyed buildings :

Prastarādi-kapotāntam khsudra-nāsyā vibhūshitam ।

(*M.*, XXIV, 39.)

(2) ' A kapotam is a section of moulding made in the form of a pigeon's head. It is a crowning member of cornices, pedestals and entablatures. When employed in the latter, it often connects utility with beauty, inasmuch as the beak of the bird is so placed as to serve the purpose of a spout.'—(Rām Rāz, *Ess. Arch. of Hind.*, p. 24.)



**KAPOTA-PĀLIKĀ(-PĀLI)**—A pigeon-house, an aviary, 'properly dove-ridge, dove-list, may be rendered by crown-work, fillet, gable-edge, and even by cornice. A water-spout used at the roof to drain off water having the shape of pigeon's head or beak. In Tamil, *kapotakam* is explained as a moulding in masonry : see Winslow's *Tam. Dict.* i. v.' Then Dr. Kern quotes Rām Rāz's passage noticed under 'Kapota' and adds 'the same author (Rām Rāz) notices (p. 51) that the spout may be made to spring from the head of a lion, etc.'

With this Kern compares Utpala's definition :

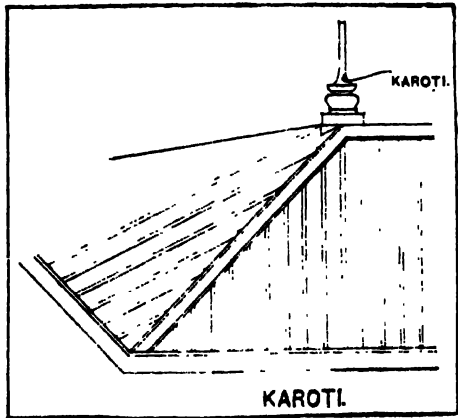
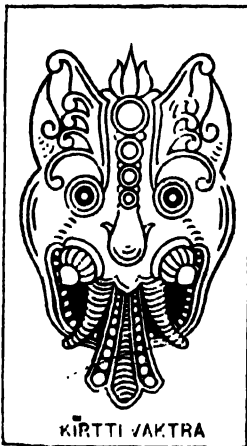
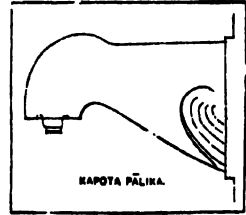
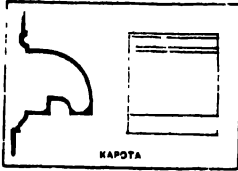
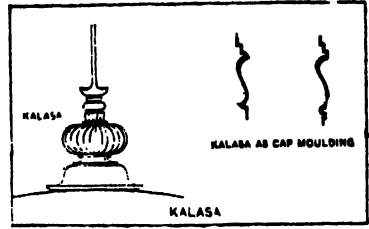
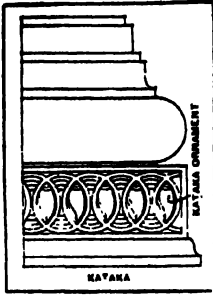
Kapota-pālikā grahaṇena bahir nirgatā mukhāni kāsthāny uchyante—by the acceptation of Kapota-pāli, the projecting lion-face timbers (mouldings) are understood ; (and also Viśvak, 6 767) :

Prāsādaḥ nirgataḥ karyau kapotau garbha-mānataḥ |  
 Ūrdhvaṁ bhittya-uchchhrayāt tasya mañjaraṁ tu prakalpayet |  
 Mañjaryās chārdha-bhāgena śuka-nāsaṁ prakalpayet |  
 Ūrdhvaṁ tathārdha-bhāgena vedi-bandho bhaved iha ||

Then Kern finds fault with Colebrooke's rendering of Kapota-pālikā and viṭaṅka (in his *Amara-Kosha*, quoted below) as 'dove-cot' and says 'Colebrooke's error, strange to say, has been perpetuated in all dictionaries ; the more reason now to draw attention to it.'—(*J.R.A.S.*, N. S., vi, p. 320, note 2.)

'A storey's altitude is of 108 digits (aṅgulas) according to Maya but Viśva-karman pronounces it to be of 3 cubits and a half, (i. e. 84 digits). As to this, however, able architects have declared that in reality there is no discrepancy of opinion, for, if you add the height of the crown-work (kapota-pāli), the smaller number will equal (the greater).' (*Bṛihat-Saṁhitā*, LVI, 29, 30.)

There is a compound word 'kapota-pālikā' or 'kapota-pāli' (dove-cot) in Sir William's *Dict.*, p. 202, c. 3. Similarly the words, 'kapota' and 'pālikā' or 'pāli' occur together in the *Bṛihat-Saṁhitā* and (its commentary) Utpala quoted above. But they do not occur as one word in Winslow's *Tamil Dict.*, in Viśvak, and in Rām Rāz. In the twenty-eight instances in the *Mānasāra*, too, pointed out above (under KAPOTA), only the word 'Kapota' occurs. There is a different moulding called both 'Pāli' and 'Pālikā' in the *Mānasāra*. As regards the correctness of Dr. Kern's rendering of the term by 'dove-ridge,' or of Colebrooke's and Sir M. William's by 'dove-cot' nothing can be stated definitely as the term





is used figuratively to indicate a moulding and both the interpretations are possible.

Kapota-pālini-yukta-mato gachchhati tulyatām ।

(*Bhavishya-Purāna*, Chap. cxxx, v. 37.)

Koṇa-pārāvataṁ kuryāt stūpy-āchchhādanakāni cha ॥

Koṇa-pārāvataṁ nyasya koṇa-loshṭāni vinyaset ॥

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, xvi, 27, 36.)

Bahiḥ kapota-karaṇaṁ vājanopari kalpayet ॥

Ardha-tri-pāda-daṇṭaṁ vā kapota-lambanaṁ bhavet ॥

(*Kāmikāgama*, LIV, 21, 22 : see also vv. 36, 37.)

Chatur-guṇam (of the main temple) mukhāyāmaṁ prakārāṇāṁ  
viśeshataḥ ।

Kapotāntaṁ samutsedhaṁ hasta-vistāra-bhittikam ॥

(*Suprabhedāgama*, xxxi, 119.)

Kapota-pālikāyām tu viṭaṅkaṁ purānapuṁsakam ॥

(*Amarakōsha*, II, 3, 15.)

**KAPOLA**—The cheek of an image, an upper part of a building.

(1) Prāsādau nirgatau kāryau kapolau garbha-mānataḥ ।

(*Matsya-Purāna*, Chap. cclxix, v. 11.)

(2) Chaturdhā śikharaṁ bhājya(m) ardha-bhāga-dvayasya tu ।

Śuka-nāsaṁ prakurvīta tṛtīye vedikā matā ॥

Kaṇṭham āmalasāraṁ tu chaturthe parikalpayet ।

Kapolayos tu saṁhāro dvi-guṇo'tra vidhiyate ॥

(*Ibid.*, Chap. cclxix, 18-19.)

(3) Mukha-tāraṁ kapolāntaṁ nava-mātram praśasyate ।

(*M.*, LXIII, 7.)

**KABANDHANA**—A knob at the end of the nail above the post of the bedstead.

Adhaḥ kilena pādānām madhye randhraṁ praveśayet ।

Tad-ūrdhve paṭṭikām nyasya kilāgre cha kabandhanam ।

Chaturbhiḥ śrīṅkhālā-yuktam āndolaṁ chaikatopari ।

Deva-bhū-sura-bhūpānām anyeshām śayanārthakam ।

(*M.*, XLIV, 68-71.)

**K(H)A-BHITTI**—An upper storey-wall, an upper wall, 'kha' implying 'sky' and 'bhitti' wall.

Garbhādhāna-kramaṅkaṁ kaḥ(kha)-bhittir mukhya-dhāmani ।

Kaḥ(kha)-bhittir dakṣiṇe bhāge saumyāvāsaḥ praśasyate ॥

Kaḥ-(kha)-bhitty-agrabhitter dvāra-dvayaṃ kuryād viśahataḥ ।  
 Vāstu-dvāra-yutaṃ chaiva k(h)a-bhittēś cha viśahataḥ ॥  
 Vāstūnāṃ pārīvayor madhye stambha-sajñāṃ nidhāpayat ।  
 K(h)a-bhitti-viśritārthaṃ tu tat-pārīvayor dvayor hi (tat) ॥

(*Kāṃikāgama*, xxxv, 45, 47, 48, 62 : LV, 31.)

**KAMALA**—A lotus, a class of the six-storeyed buildings.

(*M.*, xxiv, 17-18, *see* under PRĀSĀDA.)

**KAMALĀNGA**—A class of the three-storeyed buildings.

(*M.*, xxi, 33-38, *see* under PRĀSĀDA.)

**KAMPA**—A fillet, a small flat band which occurs chiefly between mouldings to connect or separate them. 'Of all the rectangular mouldings it has the least height. Its projection, though generally equal to its altitude, frequently varies according to the position of the principal members, which it is employed, to connect or to separate. It answers in every respect to the fillet.'

(Rām Rāz, *Ess. Arch. Hind.*, p. 24.)

Referring to the pedestal :

Utsedhe tu chatur-vimśat . . . ।

Ekena kampam ityuktam . . . ।

Kampam ardhāṃ tathā karṇam . . . ।—(*M.*, xiii, 36-37, 49.)

For further examples, *see* the lists of mouldings under UPARIṬHA.

Referring to the base :

Ekena-trimśad aṅgaṃ (= arṇāṃ) tu tuṅgaṃ kṛtvā . . . ।

Kampam ekena kartavyam . . . ।—(*M.*, xiv, 14-16.)

For further examples, *see* the lists of mouldings under ADHISHṬHĀNA.

**KAMPA-DVĀRA**—A side-door, a private entrance.

(1) Kampa-dvāraṃ tu vā kuryān madhya-pārīva-dvayor tathā ।

(*Kāṃikāgama*, xxxv, 49.)

(2) Mukhya-dvāraṃ tu tad-vāme kampa-dvāraṃ tad-anyahe ।

(*Ibid.*, LV, 32.)

**KAMPANA** (same as **KAMPA**)—A fillet.

*Cf.* the lists of mouldings under ADHISHṬHĀNA.

**KAMPA-BANDHA**—A class of bases. It has four types differing from one another in height and in the addition or omission of some mouldings.—(*See M.*, xiv, 361-372, under ADHISHṬHĀNA.)

**KAMPA-VṚITTA**—The round or circular fillet.

Kampa-vṛittaṃ cha lupā-mūle śobhārthaṃ tu balārthakām ।

(*M.*, xviii, 274.)

1. VALANA WITH PRATI-VALANA BELOW



KAMITA

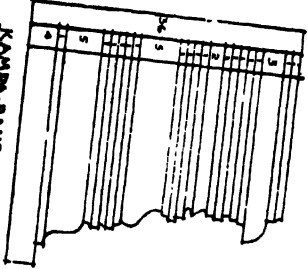
RATNA-PATTA



SUBSIDIARY MOULDINGS BASED ON VALANA TYPE



KAMPA-BANDHA BASE OF 36 PARTS.





**KARAṆḌA**—A head-gear, a basket or bee-hive-like ornament.

Karaṇḍa-mukutopetaṁ rakta-vastrottariyakam ।  
 Karaṇḍa-mukutopetaṁ dhyātvā . . . ।—(M., vii, 164, 205.)  
 Devānām bhūpatinām cha mauli-lakṣhaṇam uchryate ।  
 Jaṭā-mauli-kiriṭaṁ cha karaṇḍaṁ cha śirastrakam (-strāṇam) ।  
 Kanyasā(m) devatānām cha karaṇḍa-makuṭāṅvitam ।

(M., XLIX, 12-13, 19.)

Dvi-bhujām cha dvi-netrām cha karaṇḍa-makuṭāṅvitam ।

(M., LIV, 69, 76.)

**KARAVIRA**—A fragrant plant, or flower (oleander or *Nerium odorum*), an ornament of that shape, a pent-roof having the slope (or colour) of that flower.

In connexion with the pent roof :

Sroyṇām madhya-lupāḥ sarve(vā) lupā-saṁkhyā yatheshtakā ।  
 Karavira-bahu-varṇā saṁputābhūm vikalpayet ।

(M., XXVIII, 242-243.)

**KARI-KARṆA(ṆIKĀ)**—The ear of the elephant, (? the tip of an elephant's trunk, karṇikā), an ornament of that shape.

Upābja(m) karikarṇa-(another reading, karṇikā)-yuktaṁ kuryāt  
 tat kshudra-piṭhakam ।—(M., XXXII, 117.)

**KARIKA**—A moulding of a column.

Vira-karṇa(-kaṇṭha)syodayaṁ jñātvā nava-bhāga(e) vibhājite ।  
 Ekāṁśaṁ pādukaṁ kuryāt pañcha-bhāgaṁ tu saṁgraham ।  
 Tad-ūrdhve karikāṁśaṁ syād abjam aṁśena yojayet ।

(M., xv, 176-178.)

**KARUṆA-VIṆĀ**—A flute, a sculptural ornament.

Vadana-garuḍa-bhāvaṁ bāhukau paksha-yuktau ।  
 Mukuṭa-kamala-yuktaṁ pushpa-sachchhāya-varṇam ।  
 Parita(h) karuṇaviṇā kinnarasya rūpakam ।—(M., LVIII, 21-22.)

**KAROTI(I)**—A basin, the drum of the ear of an image, an architectural ornament.

An ornament of the pent-roof :

Evam uktaṁ lupā chordhve śikharair vāmbare'pi vā ।  
 Phalakā-kshepaṇaṁ vāpi tāmraṁ vāyasi kilayet ।  
 Hemajena karoṭim vā mṛit-karoṭim vidhānayet ।

(M., xviii, 269-271.)

Referring to a single-storeyed building :

Karoṭivad alaṅkṛitya lambane patra-saṁyutam ।—(M., XIX, 41.)



**KARKAṬA**—A crab, a moulding, a kind of joinery resembling the crab's leg.

Karkaṭakāṅghrivat kṛitvā pauṭra-nāsāṅghriṁ vesaṅyēt |  
Etat saṅkīrṇa-sandhiḥ syāt sarva-harmyeshu yogyakam |

(*M.*, xvii, 143-148.)

**KARKARĪ-KṚITA**—Paved with small pieces of stone. Consolidated with kankar (nodular limestone or gravels).

(1) Mahā-mārgam tu sarveshām vithinām karkarī-kṛitam |  
Vīther(thyāḥ) eīad dvayam proktaṁ tan-madhye karkarī-  
kṛitam |—(*M.*, ix, 197, 333.)

Referring to the pedestal :

Prativājanakam teshām kṛiteḥ karkarī-kṛitam |—(*M.*, xiii, 151.)

Referring to the gate-house (gopura) :

Etat tu śikharam proktaṁ karkarī-nāsikā-kṛitam |

(*M.*, xxxiii, 561.)

Referring to the maṇḍapa (pavilion) :

Tach-chatush-karṇa-deśe tu karkarī chāśṭa-bhadrakam |  
Yat karṇam cha dvayor bhadrām chaturtham karkarī-kṛitam |  
Karkarī-bhadra-samyuktam maṇḍapasya viśālakam |

(*M.*, xxxiv, 305, 308, 309.)

Maṇḍape chordhva-kūṭam syāt śālākāraḥ tu yojayet |  
Aśṭa-vaktra-samāyuktam karṇeshu karkarī-kṛitam |

(*Ibid.*, 530-531.)

Referring to the śālā (hall, mansion) :

Veda-vedānśakam madhye vivṛitam samvṛitāṅk(g)ṇam |  
Tad-bahīś chāvṛitānśena karkarī-samalaṅkṛitam |

(*M.*, xxxv, 300-301.)

(2) In connexion with the description of a Svastika (shaped)-house :

Prishṭhe tu dīrgha-koshṭham syāt pūrva-koshṭham tathā bhavet |  
Bāhya(-e) bāhya(-e) śālā-dvayam netram yuktam tu karkarī-yutam ||

(*Kāṅkāgama*, xlii, 7.)

**KARṆA**—The ear of an image, a moulding, any side-object, a corner-tower.

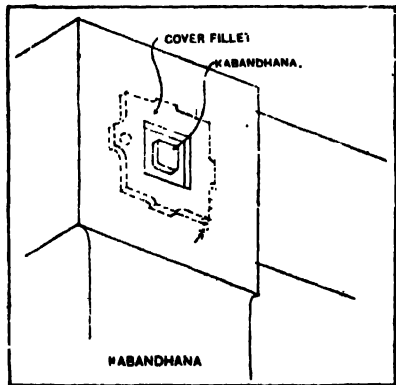
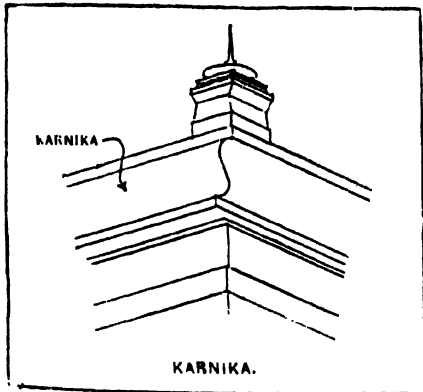
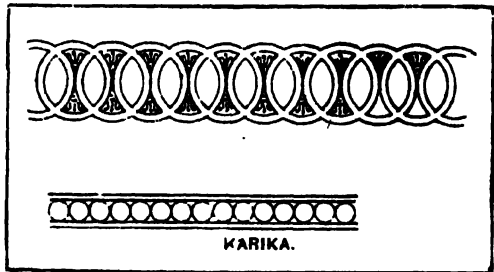
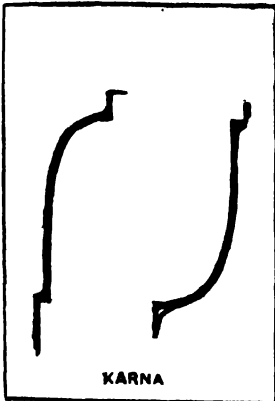
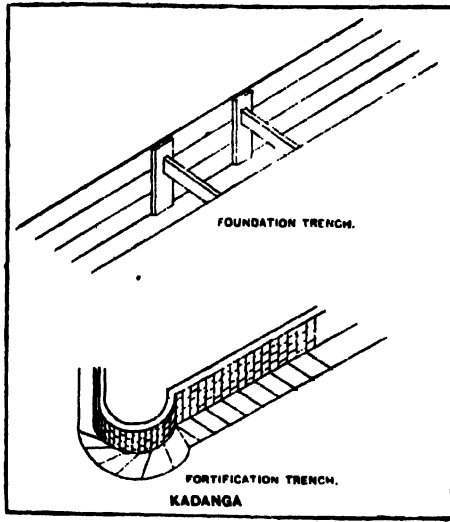
Kampam ardham tathā karṇam tad-ūrdhve'mśena paṭṭikā |

(*M.*, xiii, 49.)

For further examples, see the lists of mouldings under UPARĪṬHA.

A moulding of the base :

Karṇa-tuṅga(m) tr(i)yaṁśam syāt tad-ūrdhve kampa(m) śivāmsā-  
kam ||—(*M.*, xiv, 12.)





For further examples, *see* the lists of mouldings under **ADHIBHṬHĀNA**.

A moulding of the column :

Kumbhāyāmaṁ tathotkarṇam ūrdhve karṇa(m) samaṁ bhavet |

(*M.*, xv, 54.)

Referring to the vimāna (building in general, temple) :

Padmasyopari karṇam syāt tat-tridhā kumbha-vistṛitam |

(*M.*, xviii, 129.)

Karṇāt kanyāvasānaṁ syān nava-sūtraṁ prasārayet |—(*Ibid.*, 235.)

Referring to the door :

Ardhena kampa-samyukataṁ karṇa(m) bandh(v)amśam Iritam |

(*M.*, xxxix, 69.)

Referring to the tulā (balance) :

Suvṛitta-nāla-deśe tu patra-mūle tu karṇa-yuk |—(*M.*, I, 205.)

A moulding of a vedikā (altar, railing, platform) :

Vedikāyāṁ vihīnaṁ chet kartṛi-dṛiṣṭi(r) dinaṁ vrajet |

Tat-karṇe'dhika-hīnaṁ ched bhojanena vināśanam |

(*M.*, lxix, 26-27.)

Referring to a single-storeyed building :

Tad eva vedikāśnena nava-bhāga(-e) vibhājite |

Dvi-bhāgaṁ vājanaṁ mūle chordhve karṇam guṇāśakam |

(*M.*, xix, 64-65.)

**KARṆĀSHṬAKA**—A site-plan of 324 square plots.

(*M.* vii, 213-24, *see* PADA-VINYĀSA.)

**KARṆA-KŪṬA** (*see* KŪṬA-KOṢHṬHA)—The tower at the corner of the roof, the side-niches, corner pavilions, the attic.

(1) Karṇa-harṁyasya vistāraṁ śaḍ-bhāgaṁ(ge) tu vibhājite |

Ekāśaṁ karṇa-kūṭaṁ syān madhye śālā dvayāśakam |

(*M.*, xix, 54-55, *see* also 167.)

In connexion with the six-storeyed buildings :

Ekam vātha dvi-bhāgaṁ vā karṇa-kūṭa-viśālakam |

Tale tale karṇa-kūṭa-koshṭha-hārādi-bhūshitam |

Karṇa-kūṭa-viśāle tu tri-bhāgaikam madhya-bhadrakam |

(*M.*, xxiv, 29, 30, 33.)

Ekam vātha dvi-bhāgaṁ vā karṇa-kūṭa-viśālakam |—(*M.*, xxv, 17.)

In connexion with the gate-house (gopura) :

Evam lalāṭayoś chaiva dirgham vinyāsyam uchyate |

Karṇa-kūṭa-dvayaṁ chaiva tad-bhāga-dvayaṁ Iritam |

Madhya-koshṭhaṁ chaturthaṁ cha karṇa-kūṭaṁ chatuṣṭayam |

(*M.*, xxxii, 418-424.)

- (2) Agra-karṇa-samāyuktāṁ karṇa-kūṭa-dvayānvitam ||  
 Karṇa-kūṭa-vihīnāṁ vā chānyat sarvaṁ tu vāstushu ||  
 Chatuṣ-koṇe chatuṣ-kūṭaṁ tad-vistāreṇa nirmītam ||  
 Pañjara-dvīṭayāṁ kāryāṁ karṇa-kūṭa-samodayam |  
 Pradhānāvāsa-netrastha-netra-kūṭa-dvayāṁ nayet ||

(*Kāṁikāgama*, xxxv, 65, 66, 73, 75.)

Sarvaṁ aṅgaṁ sabhākāraṁ karṇa-kūṭa-vivarjītam ||  
 Chatasras tu sabhā kāryā koṇa-kūṭa-chatuṣṭayam ||

(*Ibid.*, XLV, 41, 44.)

Kūṭa-koshṭhaka-nīḍānāṁ pramāṇam iha kīrtitam |  
 Kūṭa-koshṭhādī-sarvāṅgaṁ māna-sūtrād bahir nayet ||  
 Antaḥ pramāṇa-sūtrāt tu veśanaṁ sarva-deśadam |  
 Chatur-asraṁ vasvasraṁ shoḍaśāsraṁ tu vartulana ||  
 Mastakam stūpīkopetaṁ karṇa-kūṭam idaṁ matam |  
 Madhye nāsā-samāyuktam ardha-kūṭi-samanvitam ||  
 Mukha-paṭṭīkayopetaṁ śakti-dvaya-sama vitam |  
 Aṅka-stūpīkopetaṁ koshṭhakaṁ madhyaśo bhavet ||  
 Haṁsa-tuṇḍa-nibhaṁ priṣṭhe śālākāraṁ mukhe mukhe |  
 Pañjaraṁ vihītaṁ kūṭa-koshṭhāyoraṁ antaraṁ dvijāḥ ||  
 Pārśva-vaktraṁ tad evāṣṭāṁ hasti-tuṇḍa-sa-maṇḍanam |  
 Eṣha jāti-kramāt proktaḥ karṇa-koshṭha-samanvitam ||  
 Madhye kūṭaṁ tayoṛ madhye kshudra-koshṭhādī-śobhitam |  
 Chhandam etat samuddiṣṭāṁ kūṭāṁ vā koshṭhakaṁ tu vā ||  
 Antara-prastaropetaṁ nimnaṁ vonnatam eva vā |  
 Vikalpam iti nirdiṣṭam ābhāsaṁ tad vīmīśritam ||

(*Ibid.*, LV, 123-130.)

- (3) Prastarād-ūrdhva-bhāge tu karṇa-kūṭa-samāyutam ||

(*Suprabhedāgama*, xxx, 30.)

· The attic is formed of different kinds of little pavilions. Those which are at the angles of the edifice are called karṇa-kūṭa. They have a roof of square or circular section and are surrounded by a single awn, *stūpi*.<sup>2</sup>

· Those which are placed in the middle are called *śālā*, they have an elongated roof and have three *stūpis*.—(*Cf. M.*, XIX, 54-55.)

· Between the karṇa-kūṭa and *śālā* are found some kinds of little windows called *pañjara*.—(*Dravidian Architecture*, by Jouveau-Dubreuil, ed. S. Krishna Swami Aiyangar, pp. 13, 5.)

**KARṆA-PATRA**—A leaf-like ornament for the ear, a corner leaf.

Tasyādho ratna-dāmaś cha lalāṭordhve'rḍha-chandravat |  
 Karṇa-patra-samāyuktāṁ śrotroṛdhve karṇa-pushpayuk |  
 Tasmāt tu lambaṇaṁ dāma sarva-ratnair alaṅkītam |

(*M.*, XLIX, 112-114.)

KARṆA-PŪRAKA—An ear ornament.

Kuryāt tri-valayopetaṁ na kuryāt tu śikhā-maṇim ।  
Sarva-ratnaṁ vinyasya vinā cha karṇa-pūrakam ।

(*M.*, XLIX, 138-139.)

KARṆA-BANDHA—An ornament for the ear, a part of the ear.

Karṇa-bandhaiḥ karṇa-rudrāksha-mālā ।—(*M.*, LXII, 67.)

The lower part of the ear :

Hanvantaṁ karṇa-bandhāntaṁ dvayāntaraṁ daśāṅgulam ।

(*M.*, LXV, 102.)

KARṆA-HARMYA—A tower, a side-tower, a minaret, a turret.

In connexion with single-storeyed buildings :

Karṇa-harmyasya vistāraṁ shad-bhāgaṁ tu vibhājite ।  
Ekāṁśaṁ karṇa-kūṭaṁ syān madhye śālā dvayāṁśakam ।  
Ekaṁ vā dvi-tri-daṇḍena nirgamaṁ bhadrām eva vā ।  
Śālā-kūṭa-dvayor madhye chaika-hārāsa-pañjaram ।  
Tat-tuṅga(m) sapta-bhāgaṁ syād ekāṁśaṁ vedikodayam ।  
Tad-ūrdhve'dhyardha-bhāgena gaṇaṁ tryaṁśena mastakam ।  
Tad-ardhaṁ stūpikottuṅgaṁ karṇa-harmyam iti smṛitam ।

(*M.*, XIX, 54-60.)

Maṇḍape pras'arasyordhve karna (another reading, khaṇḍa)-  
harmyādi-maṇḍitam ।—(*Ibid.*, 214.)

Stūpi-tuṅgaṁ dvayāṁśaṁ syād dvi-tale tad dvitīyakam ।  
Tad evordhvam adhiśṭhānaṁ vimānāṁśeka(aika)-vitastikam ।  
Tad-ūrdhve'ṅghṛi śarāṁśaṁ syāt karṇa-harmyādi-maṇḍitam ।

(*M.*, XX, 14-16.)

Prachchhādanopari stambhaṁ karṇa-harmyādi-maṇḍitam ।

(*M.*, XXXI, 10.)

Tad-ūrdhve maṇḍapānāṁ cha chū'ikā karṇa-harmyakam ।

(*M.*, XXXIV, 64.)

Harmyē chordhva-tale pādaṁ bāhya-kūṭādi(m) vinyaset ।

Karṇa-harmyākṛitiṁ vātha sāntara-prastaraṁ tu vā ।

(*M.*, XX, 57-58.)

*Cf.* 'They (tomb of the Rājās at Mahadēvapura in Coorg from 1209) are square building, much in the Muhammadan style, on well raised basements, with a handsome dome in the centre, and minaret-like turrets at the four corners (? karṇa-harmya) surmounted by basavas or bulls. On the top of the dome is a gilded ball, with a vane. All the windows have well-carved syenite frames with solid brass bar . . . Good wood-carving may sometimes be seen in the domestic architecture.'—(*Ep. Carnat.*, Vol. 1, Introduction, p. 27, last paragraph.)

**KARṆIKĀ**—Generally implies a crowning projection and resembles the cornice, i.e., the crowning or upper portion of the entablature, a creeper-like ornament.

Vistāre pañcha-bhāge tu vedārdham padma-viṣṭitam ।  
Padma-tāra-tri-bhāgaikam karṇikā-viṣṭitam bhavet ।

(*M.*, xxxii, 110-111.)

Λ moulding of the entablature :

Kapota-nāsikā-kshudra-nivordhve sthita-karṇikā ॥  
Vātāhata-cha'ach-chāru-latāvat karṇikā-kriyā ॥

(*Kārikāgama*, liv, 37, 40.)

**KARṆIKĀRA**—A pavilion with twenty pillars, a trec, a class of people.

(*Matsya-Purāṇa*, Chap. cclxx, v. 13;  
see under MAṆḌAPA.)

Mahendre vātha satye vā karṇikārāl.yam bhavet ।

(*M.*, ix, 238, xl, 109.)

**KALĀŚ(S)A** (*cf.* STŪPI)—A pitcher, a cupola, a finial, a dome, a pinnacle, a tower, a type of round buildings.

- (1) *Agni-Purāṇa* (Chap. civ, vv. 17-18, see under PRĀSĀDA).
- (2) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 21, 23, 28-29, see under PRĀSĀDA).
- (3) Stambhārdham kalāśād bāhye latā-vartanam ishyate ॥  
Mushṭi-bandhopari kshiptam vyālāntam kalāśāvadhī ॥

(*Kārikāgama*, lv, 103, 109.)

(4) Dome : Kāñḍhanāṇḍa-kalasa ।—(Khajuraho Insc. no. v, line 19, *Ep. Ind.*, Vol. i, p. 150.)

(5) Pinnacle : Vimānopari sauvarṇṇāḥ kalāśā . . . pratishṭhāpitāḥ ।  
Placed golden pinnacle on the shrine.—(Yena-Madala Insc. of Ganapamba, v. 17, *Ep. Ind.*, Vol. iii, pp. 99, 102.)

- (6) Dome or pinnacle :  
Devālayais sudhā-śubhrais suvarṇa-kalāśāmkitāḥ ।  
Patakā-chumbitāmbhodair yyad-dharmmo nīta unnatim ॥

(Two pillar Insc. at Amaravati, no. A, Insc. of Keta, II, v. 43, *Ep. Ind.*, Vol. vi, p. 152.)

- (7) Prāsādam navabhiś cha hema-kalāśair atyunnatam gopura-prākārotsava-mamṭapair upachitam śrī-Rāmabhadrāya cha ।

'An exceedingly high temple furnished with nine gilt domes, a gate-tower, a wall, and a festive hall, to the holy Rāmabhadra.'

(Kondavidu Insc. of Krishnaraya, v, 27,  
*Ep. Ind.*, Vol. vi, pp. 237, 331.)

(8) Suvarṇṇa-kalāśa-sthāpanā cha—‘ in setting golden pinnacles (on temples)’.—(Karkala Inscrip. of Bhairava II, line 18, *Ep. Ind.*, Vol. viii, pp. 132, 135.)

(9) Abhinava-nishpanna-preksha-madhya-māṃdape . . .

Suvarṇṇamaya-kalāśa-ropana-pratishṭhā kṛitā—‘ the ceremony of placing a golden cupola on the newly-made central hall, intended for dramatic performances, was carried out.’—(The Chahamanas of Marwar, no. XIX, Jālor stone Inscrip. of Samarasimhadeva, lines 5, 6, *Ep. Ind.*, Vol. xi, p. 55.)

(10) Uttumgatāspada-devāyatanāgra-hema-kalāśam . . . pūrṇṇa-kalāśam . . . ‘ The golden cupola on the summit of the god’s dwelling, a seat of exaltation . . . like a full pitcher.’—(Inscrip. at Ittagi, A of A. D. 1112, v. 64, *Ep. Ind.*, Vol. xiii, pp. 46, 56.)

(11) ‘ And Viśvakaṣṇma built his temple (Ananta-Kotīśvara) with complete devotion, adorned with all manner of pictures, its fronts brilliant with many golden kalāśa: decked with precious stones, its tower kissing the clouds.’—(*Ep. Carnat.*, Vol. viii, Part 1, Sorab Taluq, no. 276; Transl., p. 47, second para. last sentence.)

(12) ‘ We grant to you, in addition, two five-branched torches, five kalāśas above the palanquin and so forth.’—(*Ep. Carnat.*, Vol. viii, Part 1, Nagar Taluq, no. 68, p. 158; Transl., line 12.)

(13) Chakre jāmbū-nadyair gurutara-kalāśair bhāśvarair ekaviṃśaiḥ |  
Nepāla-kshoni-pālaḥ prathita-bhuja-bhūṣaṇam tanmaṭhasya ||

(Inscrip. from Nepal, no. 17, Inscrip. of Siddhi  
Nṛsimha of Lalita pattana, v. 17, *Ind. Ant.*,  
Vol. ix, pp. 185, 187, c. 1.)

(14) ‘ Above the seventh or highest row of cells, there is a roomy terrace occupied by four large bulls couchant at the corners, and from the centre rises a comparatively slender neck surmounted by an umbrella or semi-dome crowned by the usual kalāśa or finial.’—(Gangai-Konda-puram Śaiva temple, *Ind. Ant.*, Vol. xi, p. 118, c. 1.)

(15) ‘ Erected a new gopura with golden finials (suvarṇa-kalāśa) in the Chāmuṇḍeśvari hill.’—(*Ep. Carnat.*, Vol. iii, Mysore Taluq, no. 20; Transl., p. 3; Roman text, p. 6.)

(16) ‘ The pinnacle (kalāśa) of a ruined temple in the fort of Bel-lur, in Nāga-maṅgala Taluq, shows exactly what the finial ornament of this style of temple was, which Fergusson, from its appearance in photographs mistook for a lantern and though unable to account for so incongruous a feature introduced it into his picture of Halebid temple restored’ (*Hist. of Ind. and East. Arch.*, p. 400). ‘ The crowning ornament is really a kalāśa or sacrificial vase, such as is used at the



final consecration ceremonies round the rim of which is tied a cloth in narrow folds and knotted into a bunch at each of the four cardinal points. In later ornamentation the cloth was replaced by wreaths of leaves and flowers with a cluster or bouquet at the four points, the sprays and flowers depending from which went down as far as the foot of the vase, and thus produced the appearance which in the picture suggested a lantern.'—(*Ep. Carnat.*, Vol. iv, Introduction, p. 38.)

- (17) Saumya-keśava-nāthasya gopurāgre hiraṇmayī |  
 Sthāpitā kalaśī guṇḍa-daṇḍa-nāthena śāśvatī ||  
 Saudhāgram ujjvalad anyūn a-divākaraḥbho |  
 Bālātapa-pratima-kāntir aharniśam yaḥ ||

(*Ep. Carnat.*, Vol. v, Part 1, Belur Taluq, no. 3 ;  
 Roman text, p. 103, last two verses ; Transl.,  
 p. 45, para. 1, last two lines.)

(18) Murahara-bhavanada śālākheyam māḍisi vistaradiṁ kaśasama nilisida—' He made a spire to the temple of Murahara, and fixed a kalaśa upon it.'—(*Ep. Carnat.*, Vol. v, Part 1, Arsikere Taluq, no. 131 ; Roman text, p. 396 ; Transl., p. 172.)

(19) Aneka-ratna-khachita-ruchira-maṇi-kulaśa-kalita-kūṣa-koṭi-ghaṭitam-apy- ittu iḡa-chaityālayam—' having erected . . . a lofty chaityālaya, with kalaśas (perhaps by mistake Mr. Rice has put in gopuras) or towers surmounted by rounded pinnacles set with all manner of jewels.'—(*Ep. Carnat.*, Vol. vi, Mudgere Taluq, no. 22 ; Roman text, p. 148, line 12 ; Transl., p. 63, para. 2.)

(20) 'Kalaśa, a term applied generally to the summit of a tower ; also a pot or vessel with water and some grains in it.'—(Rea, *Chālukyān Architecture, Arch. Surv.*, New Imp. Series, Vol. xxi, p. 38.)

(21) 'Kalasa (Kalas)—pinnacle of temple steeple.'—(Smith, *Gloss., loc. cit.*, to *Cunningham Arch. Surv. Reports.*)

(22) See Maghul Arch. of Fatchpur-Sikri, Smith *Arch. Surv.*, New Imp. Series, Vol. xviii, Plate LXXII, fig. 1, 2, 3.

(23) *Essay on Arch. of Hind.*, Rām Rāz, Plates xx to xlii ;

(24) *Mysore Arch. Report*, 1914-15, Plate xiv, fig. 3, p. 28 ; fig. 1, p. 22 ; Plate v, fig. 2, p. 10 ; Top of tower of Bhoganandīśvara shrine at Nandi, *ibid.*, 1913-14, Plate vi, fig. 2, p. 16.

(25) *Cunningham, Arch. Surv. Reports*, Vol. vii, Plates xvii (showing the details of the mouldings of the tower of the temple at Khalari). xiv (showing the mouldings and section of another temple tower).

**KALAŚA-BANDHA** (see **KUMBHA-BANDHA**)—A class of bases.

(*M.*, xiv, 195-239 ; see under **ADHISHTHĀNA**.)

**KALĀ**—Art, sciences dealing with the traditional sixty-four branches which some authorities reckon as 528.

(1) Gīta, (2) vādyā, (3) nṛitya, (4) ālekhyā, (5) viśeshaka-chchhedyā, (6) taṇḍula-kusuma-vali-vikāra, (7) pushpūstarāṇa, (8) daśana-vasana-aṅga-rūga, (9) maṇi-bhūmikā-karma, (10) śayana-rachana, (11) udaka-vādyā, (12) udakāghāta, (13) chitra-yogā, (14) mālya-grathana-vikalpā, (15) śekhara-kā-piḍaṇa-yojanā, (16) nepathya-prayogā, (17) karṇa-patra-bhaṅgā, (18) gandha-yukti, (19) bhūshaṇa-yojana, (20) aindra-jālā, (21) kauchumāra-yogā. (22) hasta-lāghava, (23) vichitra-śāka-yūsha-pūpa-bhakshya-vikāra kriyā, (24) pānakarasa-rāgāsava-yojana, (25) sūchi-vāya-karma, (26) sūtra-kriḍā (27) viṇā-ḍamaruka-vādyā, (28) prahelikā, (29) pratimālā, (30) durva-chaka-yogā, (31) pustaka-vāchana, (32) nāṭakākhyāyikā-darśana, (33) kāvya-samasyā-pūraṇa, (34) paṭṭikā-vecra-vāṇa-vikalpā, (35) tarku-karman, (36) takshaṇa, (37) vāstu-vidyā, (38) suvarṇa-rūpya-parikshā, (39) dhātuvāda, (40) maṇi-rāgākara-jñāna, (41) vṛikshāyur-veda-yogā, (42) mesha-kukkuṭa-lāvaka-yuddha-vidhi, (43) śuka-sārikā-pralāpana, (44) utsādana-saṁvāhana-keśamardana-mārjana-kaśāla, (45) akshara-mushṭika-kathana, (46) mlechchhita-kutarka-vikalpā, (47) deśa-bhāshā-vijñāna, (48) pushpa-sakāṭikā, (49) nimitta-jñāna, (50) yantra-māṭṛikā, (51) dharaṇā-māṭṛikā, (52) sampāṭhya, (53) mānasi-kāvya-kriyā, (54) abhidhāna-kosha, (55) chhanda-jñāna, (56) kriyā-vikalpa, (57) chhalitaka-yoga, (58) vastra-gopana, (59) dyūta-viśeṣa, (60) ākarsha-kriḍā, (61) bāla-kriḍanaka, (62) vaitālika, (63) vaijayika, (64) vyāyāmika-vaināyika-vidyā-jñāna.—(*Kāmasūtra* of Vātsyāyana, ed. Bombay, pp. 32-35; see also pp. 43, 95.)

See *J.R.A.S.*, 1924, pp. 355-367.

Compare the lists from (1) *Kalpasūtra* (211), (2) *Daśakumāra-charita* (II, 21), (3) *Kādambarī*, p. 75, (4) *Kalāvilāsa* by Kshemendra, (5) *Samavāya-sūtra*, (6) Ramachandra's *Commentary on Champurāmāyaṇa* by Vidabharāya, (7) Nārāyana's *Commentary on Lalita-sahasranāma*, (8) *Śrīmad-Bhāgavata*, (9) *Kāmasūtra* of Vātsyāyana, and (10) Bhaskararāya's *Commentary on Lalita-sahasranāma* (N. S. P., 1917), p. 72.

Similar lists are also given by Śrīdhara in his *Commentary on Śrīmad-Bhāgavata* (Part x, Chap. XLV, v. 36), Jīva-gosvāmi in explaining Śrīdhara's commentary refers also to the *Viṣṇu-Purāṇa*, and *Hari-vaṁsa*; in the *Buddhist Lalitavistara* (Chap. x, ed. R. L. Mitra, p. 182; see also p. 186), and in the *Jain Uttarādhyāyana-sūtra* (text, Chap. XXI, 6, Transl. S. B. E., Vol. XLV, p. 108). See also *The Kalās*, by Venkaṭasubbā (pp. 25-32).

Chatuṣshashṭhikalāḥ, Śārngadhariye kathāṁse cha Śrīdhariya-Lakshmiṇīpīṭhikāyāṁ cha vilakshanyena gaṇitāstā nishkṛishya likhyante: Then follows a list of sixty-four arts including eightcen scripts, various languages,

poetry books, Nāṭakas (dramas), alāṅkār (poetics), vedas, upa-vedas, vedāṅgas, Śāstras (without specification), Tantras, Purāṇas, Smṛitis, agriculture, witchcraft, sorcery, gambling, etc.

For fuller details see the writer's article 'Fine Arts' (*Indian Historical Quarterly*) and 'Fine Arts in Our System of Education' (Convocation address, Gurukula, Brindavan, 1937, *The Hindustan Review*, June, 1936, pp. 784-796). *Vide* the Introduction to the writer's *Hindu Architecture in India and Abroad*.

**KALĀPAKA**—A tuft of braided hair ∴ sectarian mark on the forehead of an image.

Prakosṭe valayaṁ chaiva maṇi-bandha-kalāpakam ।

(*M.*, I, 16, etc.)

**KALKA**—A paste used as plaster or cement, also called 'yoga' (mixture).

(*Bṛihat-Saṁhitā*, LVII, '3, 6, 7, 8, *J.R.A.S.*, N. S., Vol. VI, pp. 321, 322.)

**KALPA-DRUMA**— } The ornamental tree, employed as a carv-  
**KALPA-VṚIKSHA**— } ing (see ŚRĪ-VṚIKSHA).

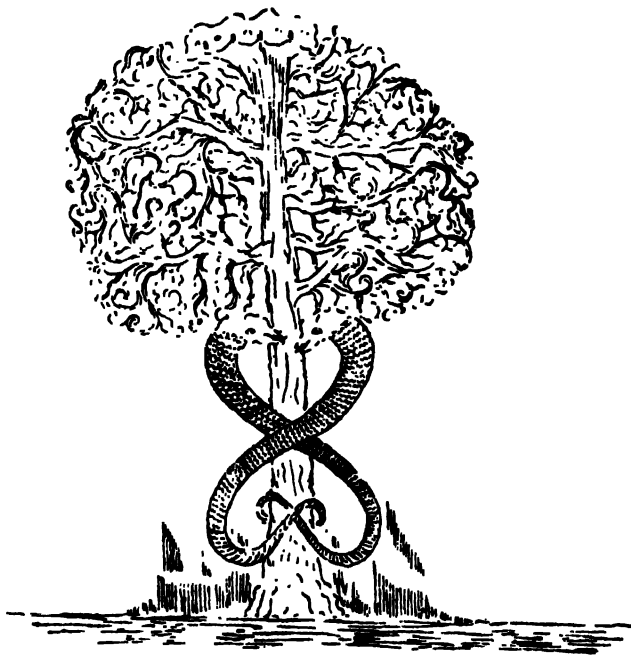
Compare Akshaya-vaṭa at Prayag (Allahabad), Siddha-vaṭa at Ujjain, and Bodhi-tree at Gaya.

(1) *Mānasāra* (Chap. XLVII, 1-77) :

The name of the chapter is Kalpa-vṛiksha, which literally means a tree yielding all wishes, or, in other words, an all-productive tree. This tree is used as an ornament of the throne of gods and kings (lines 1-2). Such a tree is made above the throne and the arch as well as at the middle of the length of the throne (lines 4-5). It is also constructed inside the Mukta-prapāṅga or an open courtyard, the maṇḍapa or a pavilion, and the royal palace (lines 68-69). Beyond the front of the ornamental tree, there should be represented a yard where the votaries of gods and kings are seated in the pose of praising and worshipping them (lines 70-75).

The minute description and measurement of all the various parts of the tree are given. The tree is coiled round with a serpent the outspread hood of which reaches the top (lines 11-12). The measurement of the hood and tail of the serpent is described at great length (lines 13-20). The number of branches as also the measurement of them varies according to the various thrones for the decoration of which the tree is constructed (lines 21-43).

THE ORNAMENTAL TREE  
FOR THRONES OF GODS AND KINGS  
NOT TO SCALE.



KALPADRUMA



The tree is beautifully decorated with creepers, leaves and flowers of various colours and forms (lines 114-155, 62-66). Bees are represented on the branches (line 56). Jewels and garlands of pearls are inserted in suitable places (line 57). The figures of monkeys, deities and semi-divine beings (Sidhas, Vidyādhara, etc.) are beautifully carved in the intervals between the branches (lines 58-61).

Many other particulars regarding the ornamental tree are expressly left to the choice and discretion of the artists :

Evam tu kalpa-vṛikshaḥ syāt ścshaṁ yuktyā prayojayet ।

Tasya madhye cha raṅge tu muktikena prapāṅvitam ।

Tan-madhye śāsanādinām toraṇam kalpa-vṛikshakam ।

(M., xxxiv, 167, 218-219.)

A carving on the car :

Kalpa-vṛiksha-yuta-chakravartibhir maṇḍitam kuru sarvavedi-  
bhiḥ ।

(M., xliii, 169-170.)

The materials of which the tree is constructed :

Śimhāsanaṁ makara-toraṇa-kalpa-vṛiksham ।

Mukta-prapāṅgam api dāru-śileḥṣṭakādyaiḥ ।

Ratnair aneka-bahu-loha-viśeshakaiś cha (kuryāt) ।

(M., xlvii, 30-33.)

Paśchāt śimhāsanaḍhyaś cha kalpa-vṛikshaṁ cha toraṇam ।

(M., xlix, 185.)

Padma-pīṭham mahā-pīṭham tri-mūrṭiṇām cha yojayet ।

Prapā cha toraṇam vāpi kalpa-vṛikshaṁ cha saṁyutam ।

(M., li, 86-87.)

Apare tu niryūham kuryān makara-toraṇam ।

Tad-ūrdhve kalpa-vṛikshaṁ syāt sa-ha(? ga)jjendra-śva(? sva)

raiḥ saha ।—(M., lv, 79-80.)

(2) ' (He) covered with fine gold the enclosure, the gate-towers, halls and buildings surrounding the shrine of pure gold . . . covered with splendid gold the altar on which offerings abound . . . covered with pure gold and adorned with numerous strings of large round pearls the sacred car temple . . . was pleased to build a long temple street of mansions covered with jewels and called it after his royal prosperous name, and made numberless splendid insignia, beginning with dishes

cut off fine gold, together with a kalpa (tree) of pure gold.'—(Inscrip. at Tirumalavadi, no. 79, lines 14-23, *H.Ś.I. I.*, Vol. III, p. 185.)

Doshonmosha-vṛisha-praghosha-divishat-santosha-posha-kshamaḥ  
sarṇyā-tātula-tīrtha-bhūta-parishat-satkāra-kalpa-drumaḥ ।

Nānā-maṅgala-divya-vastu-nivṛitas taurya-trikollāsito hṛidyah ko'pi  
sa vāsaraḥ samabhaval-loka-pramodojjvalaḥ ॥

(Inscrip. from Nepal, no. 23, Inscrip. of  
Queen Lalita-tripura-sundari, v. 4,  
*Ind. Ant.*, Vol. IX, p. 194.)

**KALYĀNA**—A class of the five-storcyed buildings (same as GṚHA-KĀNTA).

(*M.*, XXIII, 30-32 ; see under PRĀSĀDA.)

**KALYĀNA-MANḌAPA**—A wedding pavilion.

(See details under MANḌAPA.)

**KAVĀṬA**—The leaf or panel of a door, a door.

(1) *Vāstu-vidyā* (ed. Gaṇapati Śāstrī) XIV, 1 :

Kavāṭa-dvītayaṁ kuryān mātṛi-putry-abhidham budhaḥ ॥

(2) *Kauṭīliya-Artha-sāstra*, Chap. XXIV, p. 53 :

Tri-pañcha-bhāgikau dvau kavāṭa-yogau ।

(3) *Kāmikāgama*, LV :

Deva-dvija-narendrāṇāṁ kavāṭa-yugalaṁ matam ।

Anyayor ekam uddishṭaṁ maha-dvāre chatur-yugam ॥ (51)

Aneka-śṛiṅkhalopetaṁ bāhu-kuṇḍala-bhushitam ।

Kavāṭa-yugmaṁ kartavyaṁ kokilārgala-sarṇyutam ॥ ( 2)

Bhitti-madhyād bahis tasyā (ḥ) stambha-yoga-kavāṭaMyuk ।

Kavāṭa-yug 1.ṁ vā-ekam ghāṭanodghāṭaṁ samam ॥ (166)

See also verscs, 38, 49, 53.

Jālakaś cha kavāṭaś cha bāhye bāhye prakalpayet ॥ (*Ibid.*, XLI, 3).

(4) *Rāmāyaṇa*, VI, 31, 27, etc. :

Purīṁ mahā-yantra-kavāṭa-mukhyām ।

(5) *Mānasāra* :

Yon(g)yaṁ kavāṭa-yugmaṁ cha śṛcshṭhaṁ madhyaṁ cha harṇyakci

(*M.*, XIX, 152.)

Dakshīṇe cha kavāṭe tu dvāraṁ kuryāt tu mukhyake ।

Devānāṁ cha manushyāṇāṁ mahā-dvāraṁ kavāṭake ।

(*M.*, XXXIII, 9, 11.)

As compared with 'prākāra' :

Dakṣiṇasya kavātaṃ tu viśālādhikam āyataḥ |  
Eka-dvi-tryaṅgulaṃ vāpi kavātaṃ syāt dvi-hastakam |  
Kuryāt kavāṭa-dīrgheshu kshepapaṃ vistṛito'dhikam |  
Prākāre cha mahā-dvāraṃ kshudra-dvāraṃ kavāṭake |

(*M.*, xxxix, 101, 102, 108, 115; *see also* 124-137.)

(6) 'He, the emperor of the south, caused to be made of stone for Vijaya-nārāyana temple, latticed window, secure door-frame (dṛidha-kavātaṃ) door-lintel, kitchen, ramparts, pavilion, and a pond named the Vasūdeva tirtha.'—(*Ep. Carnat.*, Vol. v, Part 1, Belur Taluq, no. 72, Transl., p. 61; Roman text, p. 142, line 7.)

KĀŚA— }  
KĀŚPU— } A mat, a cushion, a golden seat.

(*R.-V.* x, 100, 10 : *Taitt. Aran.*, vi, 9, 1 : *A.-V.* vi, 138, 5.)

KĀKĀSHṬA—A synonym of paryaṅka or bedstead, a couch of eight-fold crow design.

(*M.*, iii, 11-12; *see* under PARYAṅKA.)

KĀCHA—A house with a southern and northern hall.

(*Bṛihat-Saṃhitā*, liii, 40.)

KĀNTA—A type of pavilions.

(*M.*, xxxiv, 513-516; *see* under MAṆḌAPA.)

KĀNTĀRA—A large forest, a difficult road, a class of six-storeyed buildings.

(*M.*, xxiv, 13-14; *see* under PRĀSĀDA.)

KĀMA-KOSHṬA—A comfortable compartment, usually a bedroom, a temple of one of the thirty-two attendant deities.

Jayante bhāskaraṃ sthāpya(m) īśe pāśupataṃ tathā |  
Athavā kāma-koshṭhaṃ syād ālayaṃ kalpayet sudhīḥ |  
Dvātrīṃśan mūrtir evaṃ vā kuryāt tu parivāraḥ |

(*M.*, xxxii, 58-60.)

KĀMAKSHI-DHARMA-MANḌAPA—A type of pavilions.

(*Madras Museum Plates of Śrīgiri-bhū-pāla*, vv. 21-22  
*Ep. Ind.*, Vol. viii, pp. 311, 316; *see* under MAṆḌAPA.)

KĀMYA—A class of buildings, a chamber in the shrine used as bedroom of deities.

Pañcha-prākāra-harmyāṇām adhunā vakshyate kramāt |  
Kāmyādi-bheda-harmyāṇām tan-mānena vinyaset |—(*M.*, xxxi, 2-3.)  
Nītya-naimittikākhyādi-kāmyair api cha sarvabhiḥ |—(*M.*, xlvi, 27.)



**KĀRĀPAKA**--Persons appointed to look after the construction of a temple.

Kārāpakas tu sūnuḥ pitāmahākhyasya satya-devākhyāḥ ।

Goshṭhyā prasādaparayā nirupito janmanā sa vaṇik ॥

'The Kārāpaka selected by the goshṭhi (assembly) to see this work through was Satyadeva, the son of Pitāmaha, who was a merchant by birth.' Dr. Bhandarkar also refers to Prof. Kielhorn (*Ind. Ant.*, Vol. XIX, p. 62, no. 53), 'persons appointed to look after the construction of the temple.'

(Vasantagadh Inscrip. of Varmalata, v. 9, *Ep. Ind.*, Vol. IX, pp. 192, 189, notes 4 and 3.)

*Cf.* GOMANASA KARAVAKASA ।

'The gift of Gomāna the Karavaka' (=kārāpaka).

(Four early Inscrip. no. B,  
*Ep. Ind.*, Vol. XII, p. 301.)

**KĀRMUKA**—A kind of village. It is situated on the banks of a river or sea (nadi-tīre'bdhi-tīre vā kārmukam cha vinyaset). Its plan is like a bow (tad-dyayor vithi-bāhye tu kārmukākāravat prithak). See further details under GRĀMA.

(*M.*, IX, 3, 459, 463, 452-472.)

**KĀRYA-SĀTRA**—Working lines, the plumb-lines drawn for the purpose of the sculptural measurement.

(*M.*, LXVII, 93 ; see under PRALAMBA.)

**KĀLA-KUṬA**—A kind of poison, the cobra represented on the neck of the image of Śiva.

Grivasya vāma-pārśve tu kāla-kūṭa-samanvitam ।—(*M.*, LI, 80.)

**KĀLA-MUKHA**—A kind of phallus.

(*M.*, LII, 2, LXVIII, 2 ; see under LIṄGA.)

**KĀLIṄGA-(KĀNTA)**—A class of the twelve-storeyed buildings once prevailing in the country along the Coromandal coast.

Madhya-kāntam iti proktaṁ tasya kuṭa-dvi-bhāgike ।

Anu-śālā shaḍ-aśāṁ syāt tasyāṅgaṁ pūrvavad bhavet ।

Evam kāliṅga-kāntam syān nānakārāṅga-samyuktam ।

(*M.*, XXXI, 14-10.)

KIRIṬA—A diadem, a crown, a tiara.

Devānām bhū-patīnām cha mauli-lakṣaṇam uchyate ।  
Jaṭā-mauli-kirīṭaṁ cha karaṇḍaṁ cha śirastrakam ।

(*M.*, XLIX, 12-13.)

Kirīṭa-makuṭaṁ chaiva nārāyaṇāṁśa-yogyakam ।—(*Ibid.*, 18.)

KIMBARA(-RI)—A crocodile, a shark, used both as an architectural and sculptural object.

Chitra-toraṇam . . . grāha-kimbara-saṅyuktam ।

(*M.*, XLVI, 52-53.)

Śyāma-varṇaṁ mukhaṁ sarvaṁ kimbarī-makarānanam ।

(*M.*, xviii, 311.)

In connexion with the śālās or buildings :

Sarve(a)-śālā-nāsikā-toraṇādyaiḥ ।

Patraś chitraiḥ kimbarī-vaktra-yuktam ।—(*M.*, xxxv, 401-402.)

In connexion with the single-storeyed buildings :

Nāsikāgrāntaṁ sarvaṁ kimbarī-samalaṅkṛitam ।—(*M.*, xix, 36.)

KISHKU—A measure, a cubit of 24 or 42 aṅgulas.

Kishku(ḥ) smṛito dvi-ratnīś tu dvi-chatvāriṁśad aṅgulaḥ ।

(*Brahmaṇḍa-Purāṇa*, Part I, 2nd Anuśaṅga-pāda,  
Chap. vii, v. 99.)

But according to the *Suprabhedāgama* (xxx, 25 ; see under AṅGULA), it is a cubit of 24 aṅgulas, which in the above Purāṇa (v. 99) is called 'aratni.'

KIRTANA (also KIRTTANA)—A temple, a shrine.

(1) S(ś)ambhor yo dvā-das(ś)āpi vyarachayad achirāt kirttanāni  
—' who erected (soon) twelve temples of Sambhu.' 'Mr. Telang at the suggestion of Pandit Bhagvan Lal'

(New Silāra copper plate grant, line 7, *Ind. Ant.*,  
Vol. ix, pp. 34, 36, and note 13.)

(2) Kartāpi yasya khalu vismayam āpa filpi tan-nāma-kirttanam  
akāryyata rājñā ।

'This is the abode of Svayaṁbhū Śiva, and no artificially made (dwelling) ; Śrī (if she could be) seen (would be) such as this. Verily even the architect who built it felt astonishment, saying " (the utmost) perseverance would fail to accomplish such a work again ; aho ! how has it been achieved by me ? " (and), by reason of it the king was caused to praise his name.' Dr. Fleet.

(Skt. and Old Canarese Inscip. no. cxcvii, line  
14 f. ; *Ind. Ant.*, Vol. xii, pp. 159, 163, c. 1.)

(3) Dr. Hultsch referring to the passage quoted above says :

'The word, Kirtana, has been understood in its usual and etymological sense by Dr Fleet and the first translator (*B.A.S.J.*, Vol. viii, p. 292 f., Mr. Prinsep); that sense is not at all appropriate here and the word must be taken to signify a temple.' He then refers to the Śilāra grant mentioned above and quotes the following :

(a) Kīrtanāni cha kārayet |

'Cause temples to be constructed.'—(*Agni-Purāṇa*, Bib. Ind., Vol. 1, p. III.)

(b) Kurvan kīrtanāni lekḥayan śāsanāni . . . prithivīm vichāchāra—'he travelled the earth, . . . constructing temples, causing grants to be written, etc. (Bāna's *Kādambari*).'

(c) Pūrta-kīrtanodharaṇena tu . . . by the restoration of dilapidated works of public utility (such as tanks, wells, etc.) and temple.'

(*Ind. Ant.*, Vol. xii, pp. 228-229.)

(4) 'In addition to the authorities quoted by Bhandarkar in support of this meaning of Kīrtana (in no. 2 above), I have since found that it is used in the same sense in the five inscriptions of Devalabdhī, the grandson of the Chandella king Yaśovarman and the son of Kṛishṇapa and Asarvā, in the temple of Brahmā at Dudahi (*Arch. Surv. of Ind.*, Vol. x, Plate xxxii).—Dr. Fleet.

(*Ind. Ant.*, Vol. xii, p. 289, c.2.)

(5) Achīkarat kīrttanam—'built temples.'—(*Gwalior Inscip.* v. 15 *Ind. Ant.*, Vol. xv, pp. 203, 202, note 8.)

(6) Kīrttanam idam sarvvaṃ kārītam (a. line 9 f.).

Kīrttanam idam sarvvaṃ api (b. line 8 f.).

Sarvva-kīrttanam idam (c. line 5).

Śāktam kīrttanam idam (d. line 3).

Kīrttanam idam (e).

In all these places, 'Kīrtana' means a temple.—(Chandella Inscip. no. A, Dudahi stone Inscip. of Devalabdhī, a grandson of Yaśovarman, *Ind. Ant.*, Vol. xviii, p. 237.)

(7) Cf. Sa dakṣhīṇārkkasya . . . chakāra kīrttiṃ bahu-kīrttināthaḥ—'he famous for many (good) deeds made the temple of Dakṣhīṇārka'.

(Gaya Inscip. of Vikrama-samvat 1429, lines 4-5, 8 ;

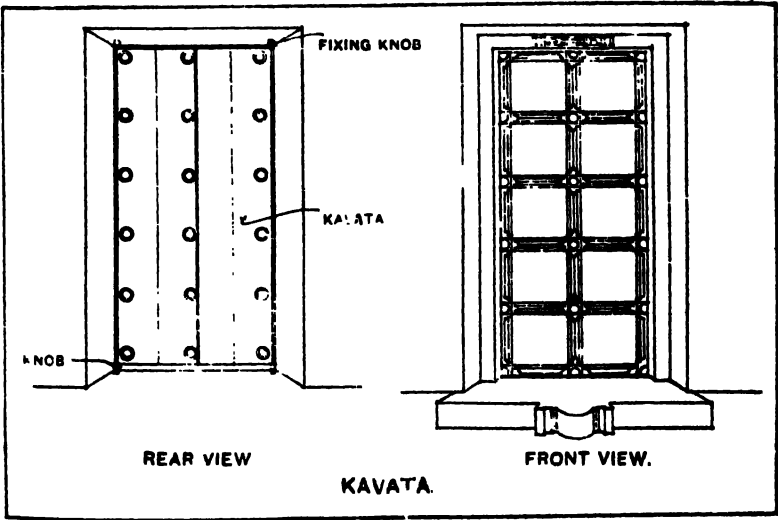
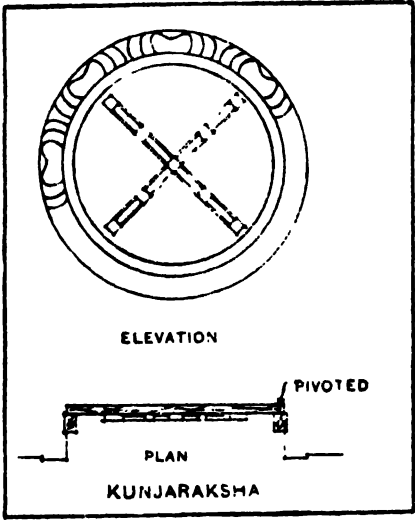
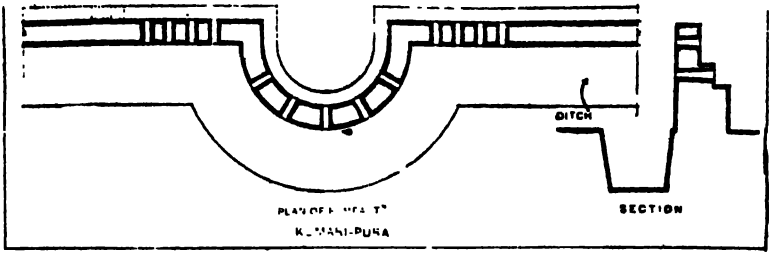
*Ind. Ant.*, Vol. xx, pp. 314-315.)

**KIRTI-VAKTRA**—The monumental face, used as an architectural member.

In connexion with the 'mukha-bhadra' or front tabernacle, porch or hall :

Tad-ūrdhve kīrti-vaktraṃ tu nirgamākṛiti(r) bhavet |

(*M.*, xviii, 293.)





**KĪRTI-STAMBHA**—A memorial or monumental pillar.

(Ahmadabad Arch., Burgess, *Arch. Surv.*, New. Imp. Series, Vol. XXXIII, p. 94; see under STAMBHA.)

**KĪLA**—A stake, pin, nail, wedge, post.

Etat tu pratimaṃ bhavet |

Kīla-tāra-samādy-ardhaṃ dvi-guṇaṃ vā galakā bhavet |

(*M.*, XII, 122-123.)

In connexion with joinery :

Mūlāgre kilakaṃ yuktam ardha-prāṇam iti smṛitam |

(*M.*, XVII, 99.)

In connexion with a mirror or the looking-glass :

Darpaṇasya tri-bhāgaikaṃ mūle kilāyataṃ tathā |

(*M.*, I, 120; see also *M.*, XXXIX, 121-123.)

**KĪLA-BHĀJANA**—The pin-hold.

In connexion with the door :

Kīla-bhājanam ity-uktam kilānāṃ tu pravakshyate |

(*M.*, XXXIX, 119; see also 120-131.)

**KĪLA-ŚŪLAKA**—The pin-point.

In connexion with the door :

Kuryāt tat kavāṭānāṃ yuktyā tat kīla-śūlakam |—(*M.*, XXXIX, 128.)

**KUKSHI**—The belly, a cavity, the middle part, the interior, the hub of the wheel.

(*M.*, XLVIII, 12.)

In connexion with the foundations :

Grāmādināṃ nagarādināṃ pura-pattana-kharvaṭe |

Koṣṭha-kolādi-sarveṣhāṃ garbha-sthānam ihochyate |

Sthira-vāstu-kukshi-deśe tu chara-vāstu tathāpi cha |

Grāma-dvārasya yoge vā garbha-śvabhraṃ prakalpayet |

(*M.*, XII, 168-171.)

In connexion with the pent roof (lupā) :

Tat-sūtrād adho deśe kukṣiṃ jñātvā purordhvake |—(*M.*, XVIII, 236.)

In connexion with the front porch or tabernacle (mukha-bhadra) :

Pañchāṃśa-dvi (-ya)ṃśa-tāraṃ syād ardhaṃ vā kukshi-viṣṭitam |

Kukshy-antaraṃ sadma-samyuktaṃ vātāyanam athāpi vā |

(*Ibid.*, 286-287.)

In connexion with the single-storied buildings :

Nāsi-tāraṃ tri-bhāgaikaṃ kukṣi-śī-tāraṃ iti-smṛitam |

(*M.*, XIX, 37.)

In connexion with the chariot (ratha) :

Vistāraṁ cha tridhā kṛitvā madhye kukshy(im)-arṁśakena tu |  
Pañcha-daśaṁ cha vipulaṁ nālaṁ kuksh(as;yā) veśanam |

(M., XLIII, 12, 14.)

In connexion with the arch :

Ratnakārāṅgaṇair yuktam kukshir āvṛita-lambitam |  
Torāṇasyopari deśe tu bhujāṅga-pāda dvayor api |

(M., XLVI, 59.)

Mukham vakshaś cha kukshiś cha kaṭi-dīrgha dvā-daśarṁśakam |

(M. LVII, 55.)

Kukshi-tārāṣṭa-matraṁ syāt . . . |—(M., LX, 14.)

**KUKSHI-BANDHA**—A class of bases, it has four types differing from one another in height and the addition or omission of some mouldings.

(M., XIV, 319-359; see under ADHIBHĪHĀNA.)

**KUCHA-BANDHANA**—An ornament for the (female) breast.

Kucha-bandhana-sāmyuktam bāhu-mālā-vibhūṣiṇi

(M., LIV, 12.)

**KUṆJARA**—A type of building which is shaped like the elephant's back, 16 cubits long and broad at the bottom and has a roof with three dormer-windows.

(1) *Bṛihat-Saṁhitā* (LVI, 25, *J. R. A. S.*, N. S., Vol. VI, p. 319).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 36, 41, 49, 53; see under PRĀSĀDA).

(3) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 32; see under PRĀSĀDA).

**KUṆJARĀKSHA** (*cf.* VĀTĀYANA)—A window resembling the elephant's eye in design.

Nāga-bandham tathā vallī gavāksham kuṅjarākshakam |

. . . eśhām vātāyanam rūpam |—(M., XXXIII, 581, 582, 585.)

Gavākshākāram yuktyā cha paṭṭikordhve samantataḥ |

Kuṅjarāksham alaksham vā patra-puṣhpādy-alāṅkṛitam |

(M., XLIV, 22, 23.)

**KUṬI** (*see* GANDHA-KUṬI)—A hall, a cottage, cornice, entablature.

Kosamba-kuṭi—'The hall at Kausāmbi.'—Dr. Hultzsch.—(*Bharaut Insc. no. 39; Ind. Ant.*, Vol. XXI, p. 236).

KUṬIKA—A village under one headman.

Eko grāmaniko yatra sa-bhritya-parichārahakā ।  
Kuṭīkaṁ tad vijānyād eka bhogah sa eva tu ॥

(*Kāṁikāgama*, xx, 4.)

KUṬUMBA-BHŪMI—The ground for houses, a site where a house is built.

Kuṭumbha-bhūmi-mānaṁ tu vāṭa-ksbhetra-vivarjītam ।

(*Ibid.*, xxi, 3.)

KUṬṬIMA—A floor, a base, a wall, a pavement, an entablature, a cottage, a small house, the ground prepared for the site of a building, a paved ground.

It is also used as a synonym of Prastara or entablature.—(*M.*, xvi, 2-4 ; see under PRASTARA.)

(1) Same as adhiṣṭhāna or the base of a column :

Adhiṣṭhāna-vidhīm vakshye śāstri saṁkshipyate' dhunā ।  
Trayodaśāṅgulam ārabhya śaṭ-śad-aṅgula-vardhanāt ।  
Chatur-hastāvasānaṁ syāt kuṭṭima-dvādaśonnataṁ । (*M.*, xiv, 1-3.)  
Janmādi-vājanāntaṁ syāt kuṭṭimodayam fritam ।— (*Ibid.*, 9.)  
Vimāna-śāleshu cha maṇḍapesu ।  
Nidhāna-sadmēshv-api gopureshv-api ।  
Eteshv-adho-deśa-talopapīṭhe ।  
Tasyopariṣṭhāt kṛta-kuṭṭimāni ।— (*Ibid.*, 397-400.)

Referring to the entablature :

Śaṭ-vidhaṁ kuṭṭimottuṅgaṁ prastarodayam iritam ।—(*M.*, xvi, 4.)

In connexion with the four-storeyed buildings :

Tad-ūrdhve pāda(m)-bandhvaṁśaṁ gopānochcharaṁ tad-ardhakam ।  
Tad-ūrdhve kuṭṭimaṁ chāṁsaṁ sārḍha-pakshāṅghri-tuṅgakam ।  
(*M.*, xxii, 36-37.)

In connexion with the gopura or gate-house :

Dvi-bhāgaṁ chopapīṭhochcharaṁ tasmād ekāṁśa(m) kuṭṭimam ।  
(*M.*, xxxiii, 249.)

(2) As a synonym of the wall (bhitti) :

. . . dvāri kuṇḍaṁ cha kuṭṭiman ॥  
Bhitter akhēcyam akhyātam . . . ॥—(*Kāṁikāgama*, lv, 199-200.)

As a member (*lit.* limb) of the base :

Maśurakam adhiṣṭhānaṁ vastvādihāraṁ dharātalam ।  
Talaṁ kuṭṭimādy-aṅgam adhiṣṭhānasya kīrtitam ॥—(*Ibid.*, 202.)



- (3) Prāsāda-śata-sambādhanṁ maṇi-pravara-kuṭṭimam |  
Kārayāmāsa vidhivad dhema-ratna-vibhūshitam ||

(*Mahābhārata*, xiv, 25, 22.)

. . . prāsādaiḥ sukṛitochhrayaiḥ ||

Suvarṇa-jāla-saṁvṛitair maṇi-kuṭṭima-bhūṣaṇaiḥ ||

(*Ibid.*, i, 185, 19-20.)

- (4) Kuṭṭimo'stri nibaddhā-bhūś chandra-śālā śirogṛiham |

Commentary : Pāshāṇādi-nibaddhā-bhūḥ sa kuṭṭima ity-ckam |

(*Amarakōsha*, ii, 5-8.)

- (5) Gṛiham kāñchana-kuṭṭimam |—(*Rāmāyana*, vi, 37, 27, etc.)

- (6) Tan . . . pathi . . . mamlatur na maṇi-kuṭṭimochitau |

(*Raghuvamśa*, ed. Stenzler, ii, 9.)

- (7) Paḍāṅgushthālulita-kusume kuṭṭime |

(*Mālavikāgnimitra*, ed. Tullberg, ii, 27.)

- (8) Vcdikeyaṁ tu sāmānyā kuṭṭimānām prakīrtitā |

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, ix, 19.)

- (9) Maṇi-kuṭṭima—'jewel-paved floor.'—(Kadaba plates of Prabhutavarsha, line 29; *Ep. Ind.*, Vol. iv, pp. 341, 342.)

- (10) Vāpī-kūpa-taḍāga-kuṭṭima-maṭha-prāsāda-satrālayān |

Sauvarṇa-dhvaja-toraṇāpaṇa-purc-grāma-prapā-maṇḍapān ||

. . . . vyadhāpayad ayaṁ Chaulukya-chūḍā-maṇiḥ |

Here 'kuṭṭima' is evidently a detached building.

(Śrīdhara's *Devapattana Prasasti*, v. 10;

*Ep. Ind.*, Vol. ii, p. 440.)

- (11) Maṇi-kuṭṭima—'jewel-paved floor.' 'And it must have been an uncommonly magnificent building, for nearly the sixth part of whole inscription (of 103 lines) is devoted to its description, and its erection is the only deed of the king, which the author has thought worth mentioning. The temple spoken of here must, therefore, necessarily be that splendid Śiva temple which, according to the Baroda-grant was built by Kṛishṇa on the hill of Etāpura, the modern Elurā.'—(Kadaba plates of Prabhutavarsha, line 34, *Ep. Ind.*, Vol. iv, p. 337 and note 2; *Ind. Ant.*, Vol. 'xii, p. 159 and p. 228 f.)

- (12) Śrīkṛishṇa-kshiti-pāla-datta-maṇibhir vidvat-kavinām gṛihā nānā-ratna-vichitra-kuṭṭima-bhuvo ratnākaratvaṁ gatāḥ—'Through the precious stones presented by the glorious king Kṛishṇa, the houses of the learned and the poets have pavements (? floor) sparkling with jewels of different kinds, and have (thus) become jewel-mines.'—(Two inscrip. of Krishnaraya no. A, Mangalagiri pillar, Inscript. v. 7, *Ep. Ind.*, Vol. vi, pp. 118, 128.)

(13) Maṇi-kuṭṭīma-vīthīshu muktā-saikata-śetubhiḥ |

Dānāmbūni nirumdhānā yatra kṛṣṇanti bālikāḥ ||

‘There the girls play on roads paved with precious stones, stopping by embankments of pearl and the water poured out at donations.’

(Vijayanagara Insc. of Harihara, II, v. 27, *H. S. I.*, Vol. I, no. 152, pp. 158, 160.)

(14) Lokaika-chūḍāmaṇinā maṇi-kuṭṭīma-saṅkrānta-prati-bimba-  
vyājana svayam avatīrya . . . |

‘The sun . . . under pretence of seeing his reflection in the jewelled floor.’

(*Ep. Carnat.*, Vol. XII, Gubbi Taluq, no. 61 ; Roman text, p. 49, line 32 ; Transl., p. 29, line 20.)

KUDYA—A wall, plastering.

Bhittiḥ strī kuḍyam |

‘Bhittiḥ kuḍye prabhede cha’ iti Haimah |

‘Kuḍyam bhittau vilpane’ iti Medinī |—(*Amarakūsha*, 2, 2, 4.)

(1) Prāsāda-harmya-valabhī-liṅga-pratimāsu kuḍya-kūpeshu |

‘In the temple, mansion, roof, phallus, image (idol), wall, and tank (the cement should be used).

(*Bṛihat-Saṁhitā*, LVII, 4, *J.R.A.S.*, N.S., Vol. VI, p. 322.)

(2) Śilayā cha mṛidāpy-athavā taruṇā rachayed atha kuḍyam ativa-  
dṛiḍham |

Tad-ihottara-vistarataḥ sadṛīṣaṁ bahalaṁ kathitaṁ talipādi-yutam |  
Svotsedha-darāṁśaika-hīna-mastakam eva tat |

Kuḍyam kuryād bahir-bhāgaṁ svāntar-bhāgaṁ bhavet samam ||

(*Vāstu-vidyā*, ed. Gaṇapati-Śāstri, xv, 1-2.)

(3) Para-kuḍyam udakenopaghñato—‘cause to collect water and thereby injure the wall of a neighbouring house.’

(*Kauṣīlyā-Artha-śāstra*, Chap. LXV, p. 167.)

(4) Pañchālindaṁ śaṭ-kuḍyam bahir āndhārikāvṛitam ||

Liṅge śilānte cha krodhe bhitti(h) pañchāśa-varjitāḥ |

Kiṁchin nyūnam alindaṁ vā śeṣaṁ kuḍyeshu yojayet ||

(*Kāṁikāgama*, I, 83, 87.)

Jālakam phalakam śailam aiṣṭam kuḍyam cheshyate |

Jālakair bahubhir yuktaṁ jālakam kuḍyam ishyate ||

Nishpādam vā sa-pādam vā kuḍyam śailam atheshṭakam |

Athavā mṛiṇmayam vāpi kuḍyam iṣṭam dvijottamāḥ ||

Kuḍye stambha-latā karyā vastvādihārasya chopari ।  
Vedikordhvādihāre kūṭa-koshṭādīnām tridhā tridhā smṛitah ॥

(*Kāmikāgama*, LV, 94, 97, 98.)

Jālakā cha kavāṭas cha bāhye bāhye prakalpayet ।  
Sarvataḥ kuḍya-samyuktam mukhya-dhāmātra kīrtitam ॥  
Anta-vivṛita-pādām cha bāhye kuḍyam prakīrtitam ॥  
Bahir abhyantare mukhya-geham vidhiyate ॥—(*Ibid.*, XLI, 8, 9, 14.)

(5) In connexion with the number of walls (sāla) in the buildings of the kings of various ranks :

Ekādikam tri-sālānam paṭṭadharādibhis tribhiḥ ।  
Prāhārakāstragrāhābhyān kuḍyam etad (? ekaḥ) dvayāntakam ॥

(*M.*, XL, 42-43.)

Geha-tridhaika-parito bahi(h) kuḍya-tāram ।—(*M.* LIII, 59).  
Kuḍyā(ama)ty-adhika-hīnam ched vistāre chodaye'pi vā ।  
Dvi-jāti-sarva-varṇānām sarva-nāsakaram bhavet ।

(*M.* LXXIX, 57, 58.)

**KUḌYA-STAMBHA**—The column of the wall, thus the pilaster or a square pillar projecting from the wall.

Śilā-stambham śilā-kuḍyam narāvāse na kārayet ॥

(*Kāmikāgama*, XXXV, 161.)

In connexion with the foundations :

Kuḍya-stambhe gṛiha-stambhe harṁya-garbhām vinikshipet ।

(*M.* XII, 132.)

Referring to the pillar .

Tri-chatush-pāñcha-śaṇ-mātram kuḍya-stambha-viśālakam ।  
Tad-dvi-guṇitam vāpi tri-guṇam vā chatur-guṇam  
Etat(s) kampa(-bha)-viśālam syād athavā tuṅga-mānataḥ ।

(*M.* XV, 14-16.)

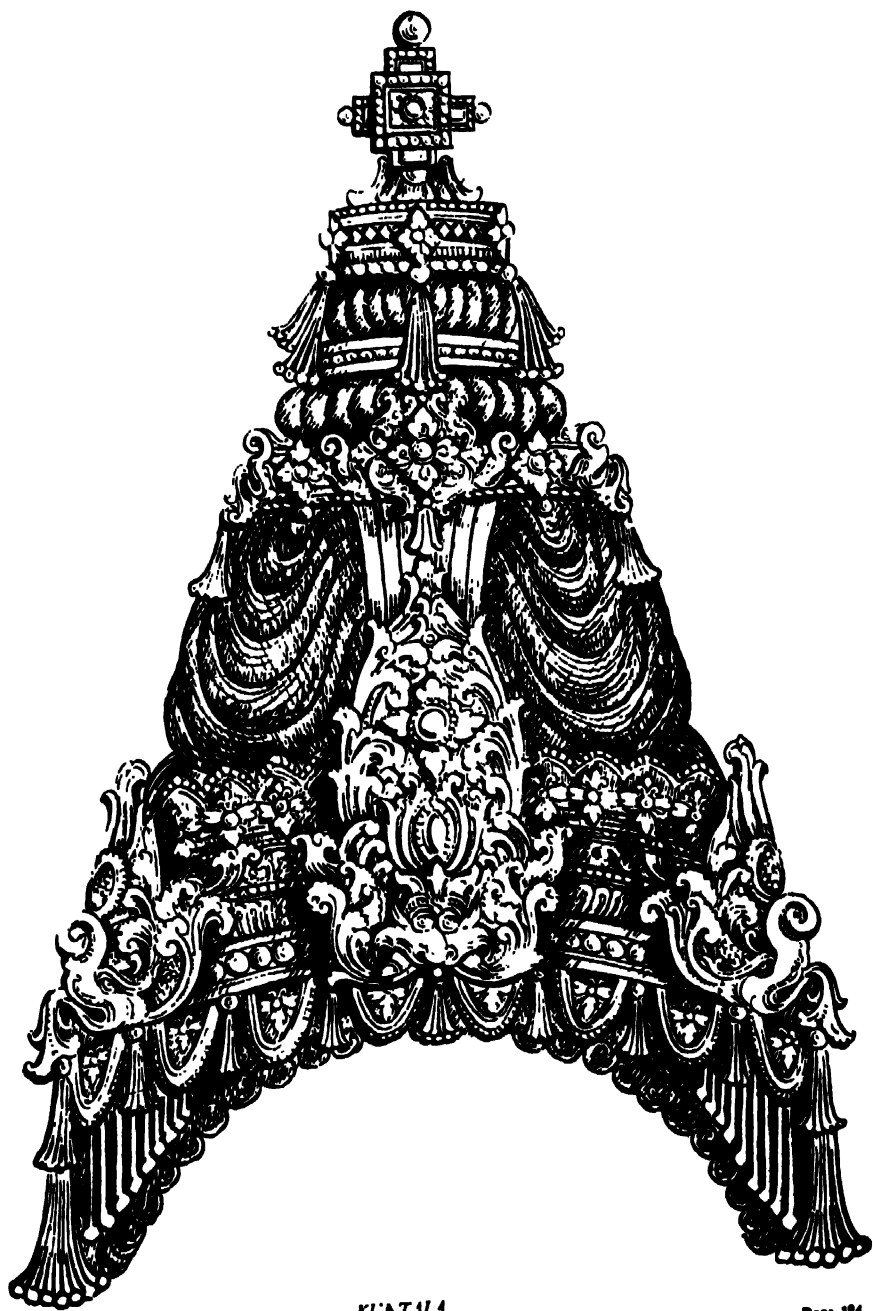
See Chalukyan Architecture, *Arch. Surv.* New Imp. series, vol. XXI, plates XVI, XLVI, fig. 3 ; plate LXXVIII, figs. 1, 2 ; Buddhist Cave Temples, *ibid.*, vol. IV, plate XVIII, no. 3 ; plate XXII, no. 2 ; plate XXIX, no. 2.

**KUṆḌA**—A pool or well in or about a temple.

Sarvataḥ kuṇḍa-samyuktam gṛiha-dvāra-samanvitam ।

(*Kāmikāgama*, XXXV, 64.)

'At Kapaḍvanj . . . is a large square kuṇḍa or reservoir in the market place. This occupies an area about a hundred feet square with a platform below the first descent, from which a series of short stairs, parallel to the sides, lead down from one narrow landing to another,



KUNTALA



and reaching a broader one about 33 feet from the first. Between each pair of descending steps in each of five tiers is a niche—some hundred and thirty-six in all—originally occupied by images . . . In the centre is a deep well about nine and a half feet square.'

(Ahmadabad Arch., Burgess, *Arch. Surv. New. Imp.* series, vol. XXXIII, p. 94, plates LXXX, LXXXI.)

**KUṆḌIKĀ**—A water pot on the hand of an image.

Kuṇḍikā chāksha-mālā cha vāme vāme kare kramāt 1—(M. LI. 31.)

Kuṇḍikā vāma-haste cha dhārayet tu sarasvatī 1—(M. LIV. 22.)

**KUNTALA**—A head gear, a lock of hair.

Devānām bhūpatinām cha mauli-lakṣhaṇam uchyate 1

Jaṭā-mauli-kirīṭam cha karaṇḍam cha śirastrakam 1

Kuntalam keśa-bandham cha dhammillālaka-chūḍakam 1

Mukuṭam cheti khyātam . . . 1—(M. XLIX 12-15).

Dukūla-vasanopetaṁ mukuṭam kunu tālam tvā 1—(M., LIV, 78.)

Kechit tu kuntala-nibham tuṅgam makuṭam kuntalam tu vā 1

(*Ibid.*, 119.)

**KUBJAKA** (*see* NAGARA)—Hump backed, crooked, a town of the similar plan (*cf.* KĀNYA-KUBJA), according to the *Kāmikāgama*, it is a suburb or a place on the confines of any city or large village.

Grāmādinām samipam yat sthānam kubjam iti smṛitam 11

(*Kāmikāgama*, XX, 15.)

Sarveshām nagarādinām bhedaṁ lakṣhaṇam uchyate 1

Kubjakam pattanam chaiva . . . 1

. . . durgam aṣṭa-vidham bhavet 1—(M., X, 37, 40, 42.)

**KUMARĪ-PURA**—A gymnasium or school for higher studies, a stadium, arena or sports ground.

Sotsedha-randhra-prākāram sarvataḥ khāṭakāvṛitam 1

Ruchaka(h)-pratika-dvāram kumārī-puram eva cha 11

Dvi-hastaḥ srotasā śreshtḥam kumārī-puram añchatām 1

Hasta-śato-daśā-śreshtḥo navahasto'shṣṭa eva cha 11

(*Brahmāṇḍa-Purāṇa*, Part I, 2nd Anusamga-pāda Chap. VII, vv. 103, 104.)

Prākāra-madhye kritvā vāpīm pushkariṇīm dvāram chatuś-śālām adhyardhāntarānikam kumārī-puram muṇḍa-harmyam dvi-talam muṇḍaka-dvāram bhūmi-dravya-vaśena vā tribhāgādadhikāyāmāḥ bhāṇḍa-vāhini(h)-kulyāḥ kārayet 1—(*Kautilīya-Artha-śāstra*, XXIV, 54, *see* Translation under Chūli-harmya.)

**KUMUDA**—The water-lily. 'A semi-circle projecting from a vertical diameter. It is chiefly employed in cornices and bases. It corresponds with the astragal (a small circular moulding ornamented with a bead or reel), or with torus' (a large convex moulding used principally in the bases of columns). (Rām-Rāz, *Arch. Hind.*, p. 23.) In bases it may be triangular or hexagonal.

(*M.*, xiv, 83.)

In connexion with the foundations :

Janmāntam vāthavā prāntam kumudāntam vā galāntakam |  
Paṭṭikāntam kshipech chāpi vinyaset prathameshtakam |

(*M.*, xii, 202-203.)

A moulding of the base (*M.*, xiv, 12, etc.; see the lists of mouldings under **ADHISHṬHĀNA**).

A moulding of the throne :

Tach-chhesham dvi-bhāge tu kumudam vṛittākṛitis tathā |

(*M.*, xlv, 136.)

A headgear

Etcshām mahishbibhyām(-shyol) cha dhammilla(iñ) kumudā-  
kṛitam |—(*M.*, xlix, 28.)

**KUMUDA-BANDHA**—A class of bases, it has four types differing from one another in height and in the addition or omission of some mouldings.

(*M.*, xiv, 65-108, see under **ADHISHṬHĀNA**.)

**KUMBHA** (see **KALĀŚĀ**)—A pitcher, the capital, a moulding, the cupola, a plinth. (*M.*, xiv, 33, etc., see the lists of mouldings under **ADHISHṬHĀNA**). A kind of building (see under **GHAṬA**).

A part of a column (*Suprabhedāgama*, xxxi, 58, see under **STAMBUHA**).

A pinnacle :

Prāsadam apy-amala-kañchana-kumbha- aṅpāta-sarṅbhāvānīyam-  
akarod anukarma śilpaiḥ |—(Chebrolu Insc. of Jaya, postscript,  
lines 9-11, *Ep. Ind.*, Vol. v, pp. 150, 151.)

Ghanam prāsadam nava-hema-kumbha-kalitam ramyam mähā-  
maṅṭapam—'a solid temple adorned with nine golden pinnacles  
and a beautiful large hall.'—(Mangalagiri Pillar Insc., v. 51, *Ep. Ind.*,  
Vol. vi, pp. 125, 115.)

Protturnge'py-aparājiteśa-bhavane sauvarṇṇa-kumbha-dhvajāropi rūpyaja-mekhalā-vitarāṇas tasyaiva devasva yaḥ . . . ।

'He placed a golden cupola (kumbha) and a flagstaff (dhvaja) on the temple of (the god) Aparājiteśa, to whom at the same time he gave a silver girldc.'—Pro. Kielhorn.

(The Chahamanas of Naddula, no. C, Sundha Hill  
Inscrip. of Chāchigadeva, v. 51, *Ep. Ind.*,  
Vol. ix, pp. 78, 74.)

Prāsādam ūrdhva-s(ś)ikhara-sthira-hema-kumbham— '(Into) the temple (which by the stately display of) firm golden capital, upon lofty spires.'—(Bhubaneswar Inscrp., v. 15, *Ep. Ind.*, Vol. xiii, pp. 152, 154.)

**KUMBHAKA**—The base of a column.

Ayam kumbhaka-dānam . . . 'This pillar-base (where the inscription is written) is the gift of . . . '

The same inscription is repeated on many other bases of pillars.

(Catalogue of the Arch. Museum at Mathura,  
sections 21, 22, 25, 30, 32, pp. 176, 177, 178.)

**KUMBHA-PAÑJARA** (*cf.* PAÑJARA)—A niche in the wall. It consists of a vase, a pilaster and a little pavilion (pañjara) at the top.

**KUMBHA-PĀDA** (*cf.* STAMBHA)—Literally the pillar at the foot of a pitcher, an upper pillar of the two-storeyed buildings (*M.*, xx, 63), of the bedstead (*M.*, xliv, 59).

**KUMBHA-BANDHA**—A class of bases, it has five types differing from one another in height and in the addition or omission of some mouldings.

(*M.*, xiv, 195-239; *see* under ADHISHṬHĀNA.)

**KUMBHĀLANĀRA**—Ornaments of the column, mouldings of the pedestal, base, and entablature.

(*M.*, xv, 201-232; *see* under UPAPĪTHA,  
ADHISHṬHĀNA and PRASTARA.)

**KUMBHA-STAMBHA** (*see* STAMBHA and compare KUMBHA-PĀDA)—A small pillar, generally employed at the upper part of a structure.

(*M.*, xv, 72-200; *see* under STAMBHA.)

**KULA** (*see* ACHARYA-KULA)—A residence, a residential private school, a dwelling house of a small individual family (*R.-V.*, x, 179, 2; *A.-V.*, I, 14, 3; *Sat. Brāhmaṇa*, I, 1, 2, 4; II, 1, 4, 4; 4, I, 14; XI, 5, 3, 11; 8, 1, 3, *Bṛihat-Upaniṣad*, I, 5, 32; *Chhānd. Upa.*, III, 15, 6), a sanctuary, a temple.



KULĀ-DHĀRANA—A type of pavilion.

(*M.*, xxxiv, 262 ; see under MAṆḌARA.)

KUĀMBHA-DVĀRA—A front door, the threshold.

(*M.*, xxxiv, 365.)

KULIKĀṄGHRI(KA) (see STAMBHA)—An ornament of the entablature, the main pillar, calyx, see NĀṬAKA.

Vallikā patra-valli cha chitrāṅgaṁ kulikāṅghrikam ।

Etat paryāya-vākyāni . . . ।—(*M.*, xvi, 54-55.)

KULI(I)RA—A crab, a part of the joinery shaped like a crab.

(*M.*, xvii, 153.)

KUHARA—A window, the interior windows.

Tatra śhaḍ-āsrir merur dvādaśa-bhaumo vichitra-kuharaś cha ।

Commentary : Kuharā abhyantara-gavākshaḥ ।

(*Bṛihat-Saṁhitā*, lvi, 20, *J.R.A.S.*,  
N. S., Vol. vi, p. 318.)

Merur dvādaśa-bhaumo vividha-kuharaś cha ।

(*Bhaviṣya-Purāṇa*, Chap. cxxx, v, 27.)

KŪṬA—The peak or summit, head, top of a building.

(1) The top of a building : karṇa-kūṭa, śālā-kūṭa.—(*M.*, xix, 55, 57 ; xv, 134 ; lx, 45 ; lxx, 20.)

(2) Ekaika-bhāgaṁ syāt tu kūṭa-śālādikam nayet ।

Adho bhāga-dvayenātha kūṭam ekena vā bhavet ।

Kūṭa-śālā (v. 92), mūla-kūṭa, vāṇa-kūṭa (95).

(*Kāṁikāgama*, I, 88, 90, 92, 95.)

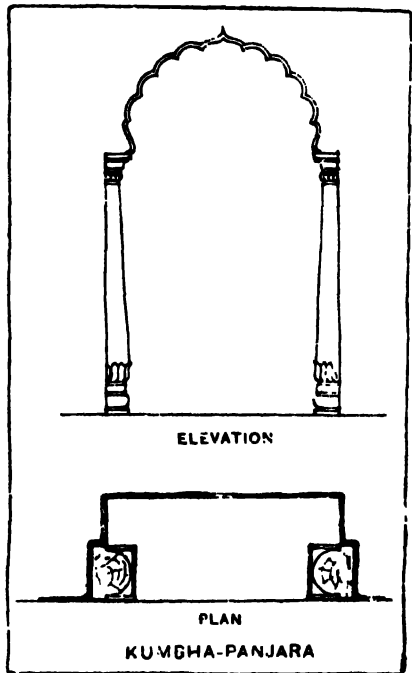
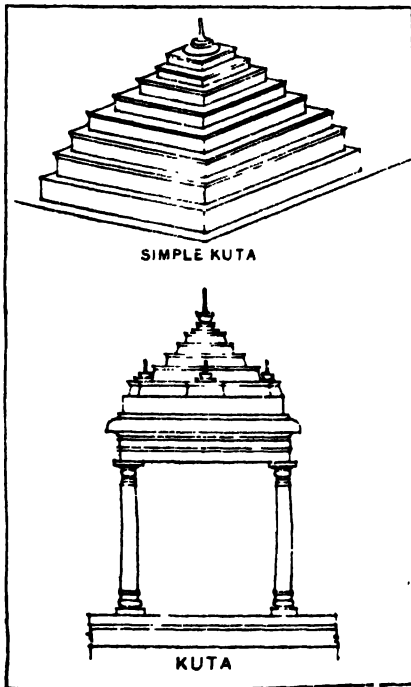
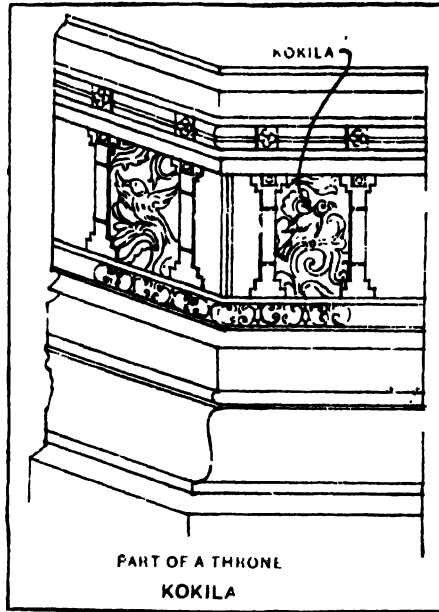
(3) Pinnacle : Māṭa-kūṭa-prākāra-khaṇḍa-sphuṭita-jirṇoddhāraḥ am—‘for the repairs of whatever might become broken or torn or worn out belonging to the enclosure, with beautiful pinnacles’.—(Insc. at Ablur, no. E, lines 59, 76, *Ep. Ind.*, Vol. v, pp. 249, 257, 258.)

Śivāgamokta-vāge parvata-pramāṇāda degulamam tri-kūṭa vāge—‘in accordance with Śiva traditions, founded a temple with three pinnacles, as vast as a mountain’.—(*Ibid.*, no. E, line 74, *Ep. Ind.*, Vol. v, pp. 250, 258.)

(4) Tārā-gaṇeshūnnata-kūṭa-koṭi-taṭārppitāsūjvala-dīpikāsu ।

‘Like clusters of stars the bright lamps be placed on its pinnacles.’

(*Ep. Carnat.*, Vol. xii, Gubbi Taluq, no. 61 ;  
Roman text, p. 49, lines 28 ;  
Transl., p. 29, line 17.)





(5) Śambhoś chāru-śubhair akāri bhavanam pāshāṇa-kūṭair idam ।  
 'He built this temple of Śambhu with beautiful and brilliant most  
 excellent stones.'—Dr. Bühler. This translation of kūṭa does not seem  
 to suit the context.

(Two Skt. Inscript. in the British Museum, no. 1,  
 line 12, *Ind. Ant.*, Vol. xni, p. 251.)

(6) Aneka-ratna-khachita ruchira-maṇi-kalaśa-kaṭita-kūṭa-koṭi-ghaṭi-  
 tam apy-uttuṅga-chaityālayam — (having erected) a lofty chait-  
 yālaya, with 'kalaśas' or towers surmounded by rounded pinnacles  
 set with all manner of jewels.' (For 'kalaśa,' Mr. Rice has put in  
 'gopura,' perhaps a slip.)

(*Ep. Carnat.* Vol. vi, Müdgera Taluq, no. 22 ; Roman text,  
 p. 148, line 12 ; Transl., p. 63, para. 2.)

(7) Śri-vira-somanātha-devara tri-kūṭa-devālaya—'the three pin-  
 naced temple of the god Vira-Somanātha'.—(*Ep. Carnat.*, Vol. vii,  
 Channagiri Taluq, no. 32 ; Roman text, p. 322, line 18 ; Transl., p. 183.)

KŪCHAKRA (*see* KRIPA)—Water-wheels for wells (*R.-V.*, x, 102,  
 11, *cf.* *Zimone*, All. Lib., 157).

KŪṬA-KOSHṬHA—A compartment on the top of a building,  
 an attic room.

(*Kāmikāgama*, LV, 123-130 ; *see* under KARṆA-KŪṬA.)

KŪṬA-ŚĀLĀ—A small room on the top of a building.

Kūṭa-śālā sabhām kṛtvā bhoga-bhogyam viśeshataḥ ॥

Kūṭa-śālā-yutam vāpi kūṭa-śālāntam eva cha ।

Prākāreṇa samāyuktam gopureṇa vidhiyate ॥

(*Suprabhedāgama*, xxxi, 113, 120.)

KŪṬĀGĀRA (*see* KŪṬA-ŚĀLĀ)—A small room at the top of a  
 building. Window-chambers (*W. Griger* : *Mahāvamśa*, p. 297).

*Rāmāyaṇa* (1, 5, 15, etc.) :

Kūṭāgaraiḥ cha sarṇpūrṇām indrasyevamarāvatiṃ ॥

Commentary : Kūṭākhayair āgaraiḥ striṇām kṛidā-grihair iti yāv  
 kūṭāḥ śālāgarām griham anye ।

KŪPA—A well with its mechanism of water-wheels, etc. (*R.-V.*, x,  
 102, 11 ; vii, 36, 3 ; ix, 97, 4), masonry sides (*Parśu*, *R.-V.*, 1, 105, 8 ;  
 x, 33, 2) and metal fittings or ribbed resembling sickles (*see*  
 KUCHAKRA).

(1) Dewal Praśasti of Lalla the Chhinda (v. 20, *Ep. Ind.* Vol. 1,  
 pp. 79, 83).

(2) Śrīdhara's Devapattana Praśasti (v. 10, *Ep. Ind.*, Vol., II, p. 440).

(3) A well with flights of steps :

Śīta-svādu-viśuddha-bhūri-salilam sopāna-mālojjvalam |  
 . . . kūpaṁ chainam akārayad |

(Gangdhar stone Inscip. of Visvavarman, lines 38,  
 39, *C. I. I.*, Vol. III, F. G. I., no. 17, p. 76.)

(4) Ānanda-putreṇa Saṅgamitreṇa kue (kūpa) kaṭite mata-  
 pitae puyae save-satana hida-suhac—'This well was excavated  
 by Saṅgamitra, the son of Ananda, in honour of his father (and  
 mother (and) for the well-being and happiness of all beings.

(Paja Inscip. of the year III, New Kharoshthi Inscip.  
 from the Lah re Museum, no. II, line 2,  
*Ind. Ant.*, xxxvii, p. 65.)

(5) Khane kūpe Dashaverana—he dug well of Dashaveras.

(Inscip. of Ava, lines 4-5, *Ind. Ant.*, Vol. XLII, p. 133.)

KRISHNA-MANḌALA—The iris of the eye of an image.

(*M.*, LXV, 66, LXVI, 65, LXX, 69.)

KEYŪRA The armlet worn on the upper arm of an image.

(*M.*, L, 14, LIV, 13, etc.)

KERALA-(KĀNTA)—A class of the twelve-storeyed building., once  
 prevailing in the ancient country of Kerala.

Tad eva bhūta-bhāgena kshudra-śālā-viśālakam |

Hārā cha tat-tri-bhāgena cha yuktyā samalūkṛitam |

Śesham prāg-ukta-vat kuryād eva(m) kerala-kāntakam |

(*M.*, xxx, 28 30 ; see under VARĀṬA, *ibid.* 17-27.)

KEŚA-KŪṬAKA—The tip of the hair, the top knot of an image.

(*M.*, L, 301 ; see USHNIṢHA.)

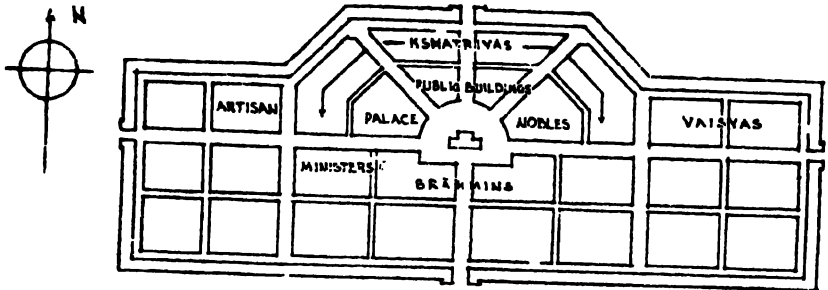
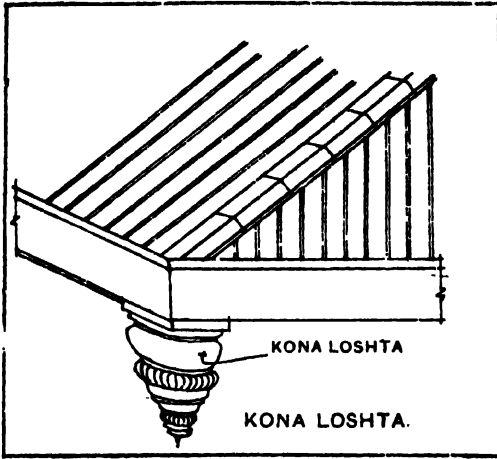
KEŚA-BANDHA—A head-gear for the images of goddesses and  
 queens.

(*M.*, XLIX, 14, 88 ; LIV, 88 ; see details under BHŪSHANA.)

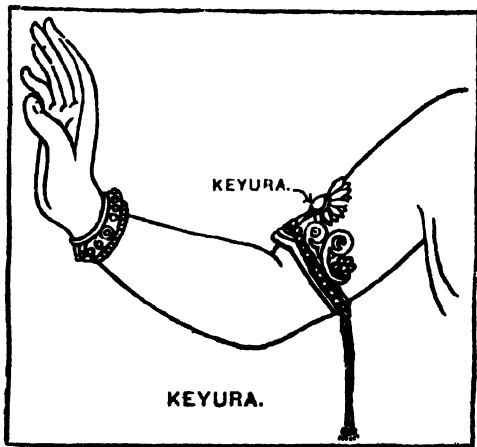
KEŚARA—A lion's or horse's mane, the filament of a lotus, a mould-  
 ing, a type of building.

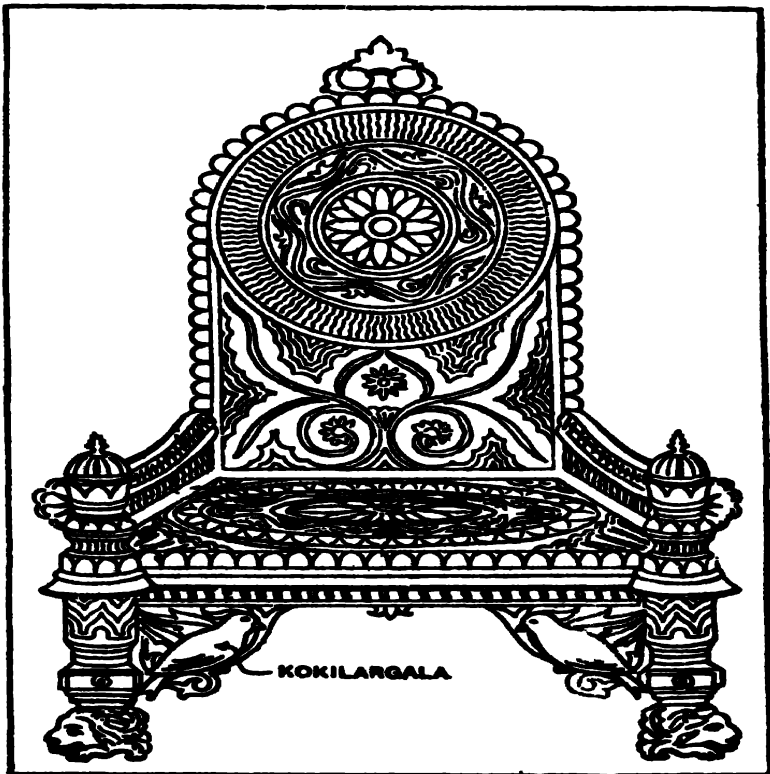
A class of the single-storeyed buildings (*M.*, XIX, 173-175 ; see  
 under PRĀSĀDA).

A class of the three-storeyed buildings (*M.*, XXI, 31-39 ; see under  
 PRĀSĀDA).



GENERAL OUTLINE OF KUBA TOWN





**KAILĀŚ(S)A**—A type of building which is 28 cubits wide, has eight storeys, and turrets.

(1) *Bṛihat-Saṁhitā* (LVI, 21; *J.R.A.S.*, N. S. VI, p. 319; see under PRĀSĀDA).

(2) A class of the three-storeyed buildings.

(*M.*, XXI, 52; see under PRĀSĀDA.)

(3) *Matsya-Purāṇa* (Chap. CCLXIX vv., 32, 47, 53; see under PRĀSĀDA.)

(4) *Bhaviṣya-Purāṇa* (Chap. CXXX, v, 28; see under PRĀSĀDA).

(5) A building with four śālās (compartments, halls) and four kūṭas (towers or domes) :

Chatuḥ-śālā-chatuṣṭ-kūṭa-yuktaḥ kailāśa eva hi ||

(*Suprabhedāgama*, XXXI, 42.)

A class of buildings, circular in plan and names as follows :

(1) Balaya, (2) Dundubhi, (3) Padma, (4) Mahā-padma, (5) Varddhani, (6) Ushṇīsha, (7) Śaṅkha, (8) Kalasa and (9) Svavriksha.

(6) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 24-29; see under PRĀSĀDA).

(7) *Agni-Purāṇa* (Chap. CIV, vv. II, 17, 18; see under PRĀSĀDA).

**KOKILA**—A moulding of the throne.

(*M.*, XLV, 125, see under ŚIMHĀSANA.)

**KOKILĀRGALA**—A latch, bolt or bar attached to the throne.

Aṅka-śṛiṅkha'opetaṁ bahu-kuṅḍala-bhūṣitam |

Kavāta-yugmaṁ kartavyaṁ kokilārgala-saṁyutam |

(*Kāṁikāgama*, LV, 52.)

**KOCHCHHA**—A cane-bottomed chair.

(*Mahāvagga*, v, 10, 2.)

**KOṬA**—A fort, a hut, a shed.

Atyuchair bhitti-bhāgair divi divasa-pati-syandanaiṁ vā vigrīḥṇan yenākāri koṭaḥ | 'By whom the fort (in this place) was built, which perhaps may arrest the chariot of the sun in the sky by its high walls.'

(An Abu Insc. of the reign of Bhimadeva, II, v. 9, *Ind. Ant.*, Vol. XI, pp. 221, 222.)

**KOṆA**—A class of buildings.

(*Kāṁikāgama*, XLV, 55-58; see under MĀLIKĀ.)



**KOṆA-PĀRĀVATA** (*see* KAPOTA-PĀLIKĀ)—A dove-cot or dove-ridge.

(*Vāstu-vidyā*, xvi, 27, 36 ; *see* under KAPOTA-PĀLIKĀ.)

**KOṆA-LOSHṬA**—A moulding, the pendulent-like ornament at the corner of a pent-roof.

(*See* details under LOSHṬA.)

**KOLAKA** (*see* AṄGULA)—A measurement of two aṅgulas, a fort, a village, a building material.

A kind of village (*M.*, ix, 486 ; *see* under GRĀMA).

A kind of fort (*M.*, x, 41 ; *see* under DURGA and NAGARA).

Some fruit or material employed in the foundation-pit.

(*M.*, xii, 98.)

**KOLHI-VEŚMIKĀ**—A hall-mansion.

Śrī-kṛṣṇagiri-mahārāja-mahā-vihāre upaśama-kolhiveśmikāḥ śachivarikāḥ sametā akshainītiḥ drūmmā-śataikena kārapitaḥ—‘ have had hall-mansions (suitable) for meditation built at this great monastery of the famous mount of Kṛṣṇa and have given as a perpetual endowment one hundred drammās.’

Śrīmat-kṛṣṇa-giri-mahā-vihāre bhadra-śrī-viṣṇu-bhikṣhūṇām tatra-sthārya-(saṅghasya) dramnāṇām śatamekaṁ (datvā) paśamana-saḍṣām chivarikādi-lābha-samanvitān kolhiveśmikān kṣhityām nyavivīśat—‘ gave one hundred drammās to the monks of the worshipful community dwelling at the great monastery of the famous mount of Kṛṣṇa, and caused to be built in the ground a hall-mansion suitable for meditation.’—*Dr. Hultsch.*

The translations quoted above are it should be noticed, too free. The term kolhi’ also does not sound like a Sanskrit word ; but there are words like ‘ kalhaya ’ ; there is a phonetic resemblance between ‘ kolhi ’ and ‘ kulya ’ which means something belonging to the family and hence ‘ main ’ or ‘ chief.’

(Three Inscrip. from Kaṇheri, no. 15, line 4 f. ; no. 43A, line 2 f., *Ind. Ant.*, Vol. xiii, pp. 134, 135, 136.)

**KOŚA**—A coffer with a pillow (*A.-V.* xiv, 1, 6) ‘ rent along with a bride to her husband’s house ’ which may be used as a couch or bed (*cf.* Germanic marriage coffers).

**KOŚA-MANḌAPA**—A store-room, a treasury.

(*M.*, xxxii, 68 ; *see* under MANḌAPA.)

**KOSHṬHA**—A store-room, a granary, a chamber, a wall ; the mezzanine room.

(*M.*, xxxv, 210, etc.)

Eka-nāsikayā yuktaṁ paijaraṁ samudāhṛitam ।

Kūṭeshu nāsikā-yuktaṁ koṣṭam etat prakirtitam ॥

(*Suprabhedāgama*, xxxi, 80.)

**KOSHṬHAKA**—A part of the pillar, a granary, a surrounding wall.

Ko hṭhakāstv-iha chatvāraś chatush-koṣeshu chaiva hi ।

(*Suprabhedāgama*, xxi, 50.)

Koṣṭhakaṁ tad-dvi-pārsve tu janma-pādākṛiti(s) tathā ।

(*M.*, xv, 85.)

Āstāṁ tāvat pratolī tad-upavirachitaṁ koṣṭhaka-dvaṁ-dvam ṣetat prauṅchchair ālāna-yugmaṁ vijaya-(vara)-kareḥ(-kariṅaḥ) śatru-lakshmyās cha sadma— near the gate-way were constructed two granaries.'

(Hānsi Stone Inscript. of Prithvirāja, V. S. 1224, v. 6, *Ind. Ant.*, Vol. xli, pp. 19, 17.)

**KOSHṬHAKARA**—A type of Nepalese chaityas, erected on a low flat mound one-tenth of its diameter in height.

(See Woodcut 156, Fergusson, *History of Indian and Eastern Architecture*, Vol. 1, p. 280.)

**KOSHṬHA-ŚĀLA**—A kind of closed hall.

(*M.*, xxvi, 37 ; see under ŚĀLĀ.)

**KOSHṬHA-STAMBHA**—A kind of pillar, a pilaster.

(*M.*, xv, 84-87 ; see under STAMBHA.)

**KOSHṬHĀGĀRA**—A store-house, a class of Buddhist chaityas in Nepal where there is a four-faced liṅga of Śiva with a corresponding emblem.

Śrāvastiyānāṁ mahā-mūtrāṅgāṁ sāsanaṁ mānavasiti-kaṭāt ।

Śrīmati vaiṣa-grāme evaite dve koṣṭhāgāre (dve koṭagalani),  
trigarbhe . . . । (Translated into Sanskrit by Dr. Büh'cr.)

'The order of the great officials of Śrāvasti (issued) from their camp at Mānavasitikaṭa.'

'These two store-houses with three partitions (which are situated even in famous Vaiśāgrāma), require the storage of loads (bhāraka) of black Pancium.'

(Sohgaura copper plate Inscript. 1-2, *Ind. Ant.*, Vol. xxv, pp. 265, 262 ; see *B. A. Society Proceedings* of 1894, p. 84 f.)

Nārāyaṇa-devara koṭṭāravan ākalpam age yaksheṣana bhāṇḍāram enalu mādisidan udāraṁ ballāla-deva dharāṇi-nāthaṁ |

'Erected a kottāra (koṣṭhāgāra) giving it the name of Yaksheṣa-bhāṇḍāra (=store-house).'

(*Ep. Carnat.*, Vol. v, Part I, Belur Taluq, no. 20 ; Text, p. 119, line 3 f. ; Transl., p. 52 ; see Fergusson, *Ind. and East. Arch.*, II, 279. Woodcut, 156.)

**KAUTUKODAYA** (*cf.* UTSAVA and *see* UTSEDIA)—A kind of height, *lit.* (?) the height of an image made as a plaything (experiment) rather than for worship.

Utsave(-savasya) chārdha-mānena kautukodvam iritam |

(*M.*, LXI, 22 ; *see* context under UTSAVA.)

Nābhyaṅtaṁ meḍhra-simāntaṁ nava -mūnam chotsavodayam |

Tad-ardhaṁ kautukotsedhaṁ kanyasādi trayāṇi trayam |

(*M.*, LXIV, 27-28 ; *see* context under UTSAVA.)

**KAUŚALYA**—A pavilion with fifty-six pillars.

(*Matsya-Purāṇa*, Chap. CCLXX, v, 6 ; *see* under MAṆḌAPA.)

**KAUŚIKA**—A type of pavilion.

(*M.*, XXXIV, 249 ; *see* under MAṆḌAPA.)

**KRIḌĀ-KETANA**—A pleasure-house.

Tirthottuṅga-sarasvatī-kṛita-parishvaṅgasya sārāsvatam |

Kā-ketanam etad atra vidadhe vāraṁnidhe rodhasi ||

(The poet Nānāka erected here) this Sārāsvatā pleasure-house on the banks of the sea that has been embraced by the high tīrtha (sacred banks) of the Sarasvatī.'

(Sanskrit Grants and Insc. Prasasti no. IV, 33, *Ind. Ant.*, Vol. XI, pp. 103, 106.)

**KSHAṆIKA-BERA**—An idol for temporary use, as is carved generally with mud by the worshipper himself.

(*M.* LXVIII, 26, etc.)

**KSHAṆIKĀLAYA**—A temple where temporary idols are worshipped.

(*M.*, LXI, 127.)

**KSHUDRA-GOPĀNA** (*see* GOPĀNA)—The small beam, a moulding of the entablature, the plinth, the base, and the capital, etc.

(*Kāmikāgama*, LIV, 2 ; *see* under PRĀSTARA.)

**KSHUDRA-NĀSĀ(-I)**—The small nose, a moulding resembling the nose, a vestibule (prati, pratimukha) side pillar, lower pillars.

It terminates by the beam in entablatures; all the kshudra-nāsās correspond to lower pillars; and that corresponding to the karṇapāda (side pillar) is half of the forepart of the column (or entablature).—  
(*M.*, xvi, 92-95; xlvi, 24, etc.)

Tilaka-kshudra-nāsi-yukta-toranaiś cha samanvitam (vimānam) |  
(*Kāmikāgama*, I, 93.)

See *Amarakośha* (II, ii, 15) under **GOPĀNA**.

**KSIIUDRA-ŚĀLĀ**—A small hall, room or house.

Kshudra-śālā-pradeśe tu sarvālaṅkāra-samyutam |  
(*M.*, xxvi, 71, etc.; see **ŚĀLĀ**.)

**KSHUDRĀBJA**—A small lotus, a moulding of the pedestal, a small cyma.

(*M.*, xiii, 61, etc.; see the lists of mouldings  
under **UPARIṬṬHA**.)

**KSHEPAṆA**—*Lit.* projection. A drip-moulding; the door-frame, a moulding above the plinth in pedestal, generally placed between a dado and cyma, a fillet and cyma, or a petal and fillet. Etymologically it would indicate a moulding like a spout to throw off water, and in this office it would resemble the corona (kapota), i.e. the square projection having a broad vertical face and the soffit or underportion recessed so as to form a drip which prevents water from running down the building. In bases it would resemble a cornice (*cf.* *M.*, xiv, 370) which is used as the term for any crowning projection. In this sense it is also found in the western architecture (*cf.* Fletcher, *Hist. of Arch.*, figs. 191, 192, 197, 198). In Indian architecture it also implies a door-frame (*M.*, xxxix, 105-110).

A moulding of the pedestal (*M.*, xiii, 45, etc.; see the lists of mouldings under **UPARIṬṬHA**).

A moulding of the base (*M.*, xiv, 120, etc.; see the lists of mouldings under **ADHISṬṬHĀNA**).

In connexion with the door :

Madhye tu kshepaṇam vāme śuddha-dvārāvasānakam |

(*M.*, xxxix, 105.)

In connexion with the bedstead :

Ekam vātha dvayam vāpi kshepaṇam bahudhānvitam |

(*M.*, xliiv, 20.)

A moulding of the pīṭha or pedestal of the phallus :

Utsedhe shoḍasāmśe tu prathāmochcharṇ dvi-bhāgikam ।

Padmochcharṇ tu tri-bhāgaṇ syāt tat-urdhve kshepaṇāmśakam ।

(*M.*, LIII, 30, 31.)

**KSHEMA**—A class of buildings.

(*Kāṁikāgama*, xxxv, 32-34 ; see under MĀLIKĀ.

**KSHONĪ**—A kind of pent-roof, stated to be employed in residential buildings.

(*M.*, xviii, 177-178.)

## KH

**KHAṬṬAKA(-ṬṬĀ)**—A bedstead, a seat, a pedestal or throne.

Mūrttinām iha priṣṭhataḥ kari-vadhū-priṣṭha-pratishṭhā-jushām  
tau-mūrttir vāme āśma-khaṭṭaka-gatāḥ kāmṭā-sametā daśa ।

‘ Behind the statues placed on the backs of female elephants, . . . (he) caused to be made here ten images of those persons mentioned above) together with their wives on khaṭṭaka of spotless stones.’

‘ The word, khaṭṭaka, judging from the context, seems to have the meaning of pedestal or throne.’ Dr. Luders.

(Mount Abu Insc. no. 1, v. 64, *Ep. Ind.*,  
Vol. viii, pp. 212, 218, 200.)

**KHAṬVĀ**—A long couch, a bedstead.

**KHAḌGA**—A type of octangular building.

(*Garuḍa-Purāṇa*, Chap. XLVn, vv. 21, 23,  
31-32 ; see under PRĀSĀDĀ.)

**KHAṆḌA-HARMYA**—A sectional tower, a tower with open verandahs or balconies.

Adho-bhāga-dvayenātha kūṭam ekena vā bhavet ।

Talam ekaṇ bhaved grāsam (?) khaṇḍa-harmyaṇ tri-bhūmike ॥

Āndhārāndhāri-hāroka-khaṇḍa-harmya-viśeshitam (vimānam) ॥

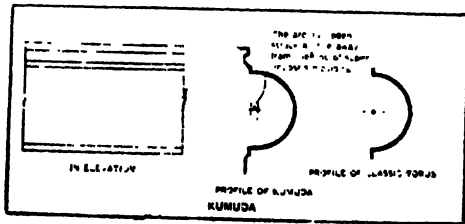
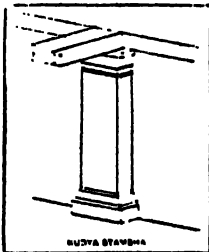
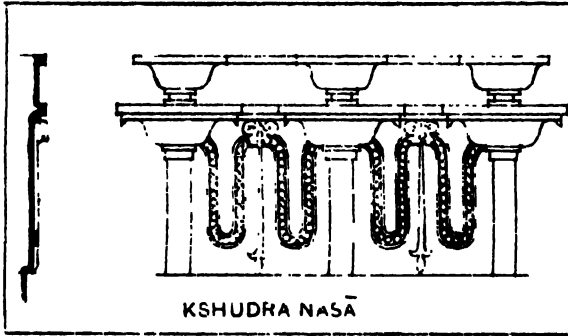
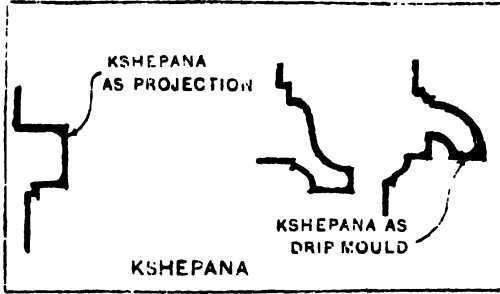
(*Kāṁikāgama*, I, 80, 91.)

**KHAṆḌOTTARA**—A kind of entablature (prastara).

Pāda-vistāra-vistaram samodaya-samanvitam ।

Khaṇḍottaram iti jūeyaṇ pādenotesedham saṁhyutam ॥

(*Ibid.*, LIV, 5.)





**KHARVAṬA**—A village, a fort, a fortified city.

(1) A village (*M.*, ix, 456), a fortified town (*M.*, x., 36).

In connexion with the foundations :

Gramādīnām nagarādīnām pura-pattana-kharvaṭe ।

Koṣṭha-kolādi-sarvśhām garbha-sthānam ihochyate ।

(*M.*, xii, 168-169.)

A kind of pavilion used as the dining hall of the king :

Nṛipāṇām bhojanārtham syāt kharvaṭākhyam tu maṇḍapam ।

(*M.*, xxxiv, 455 ; see also 456-472, 567.)

(2) A fortress to defend a group of two hundred villages :

Dvi-śata-grāmyā khārvaṭikam ।

(*Kauṣṭhīya-Artha-śāstra*, Chap. xii, p. 46.)

(3) Kshullaka-prākāra-veshṭitam kharvaṭam ।

(*Rāyapaseṇi-sūtra-vyākhyāne*, *ibid.*, p. 206.)

(4) Karvaṭāni kunnagarāṇi ।

(*Praśna-vyākaraṇa-sūtra-vyākhyāne*, *ibid.*, p. 306.)

(5) Dhanuḥ-śataṁ pariṇāho grāma-kshetrāntaraṁ bhavet ।

Dve śate kharvaṭasya syān nagarasya chatuḥ-śatam ।

(*Yājñavalka*, ii, 167.)

(6) Vaṇijām api bhogyam tu tad-vad c. a (like nagara) samīritam ।

Yat sthānaṁ brāhmaṇānām tu kharvaṭam puravāsīnām ।

Nagaryāvartanaṁ yat kharvaṭam tad udāhṛtam ।

(*Kāmikāgama*, xx, 7, 9.)

(7) Iya-khavadamhi—' (By means of his vase Vagra Maróga's son Kamagulya, who has fixed his residence) in this place Khavaṭa . . . Mr. Pargiter.

So far the editor is right. But in his long note on this expression he has rather too elaborately dwelt on a number of conjectures without however having been able to arrive at any conclusion whatever. This Prākṛit expression can easily be rendered into Sanskrit by *atra kharvaṭe* (in this city or town).

(The Inscript. on the Wardak vase, line 1, *Ep. Ind.*, Vol. xi, pp. 210, 211, 212, last para.)

(8) ' An ornament to the Kuntala-deśa was the Vanavase twelve thousand Kingdom, the chief capital (pradhāna-rājadhāni) was Chandragupt with another name of Gomanta-parvata, in the twelve *kharvaṭa* country (attached to which), in Nāgarakhaṇḍa of Yaḍa-nāda Kāntapuri, otherwise named Vira-Mārapapuri, belonging to Kamaṭṭampuri, situated on the bank of the Varadā-river, the king, in order that his government might



continue as long as sun and moon, as an offering to Kṛiṣṇa (with all the usual rights), gave, free of all imposts.'—(*Ep. Carnat.*, Vol. VIII, Part 1, Sorab Taluq, no. 375, Transl., pp. 66, last para.)

(9) Grāma-nagara-kheḍa-karvvaḍa-maḍamba-droṇamukha-pattanaṅgalinidam aneka-māṭa-kūṭa-prāsāda-devāyatanaṅgalidam oppuva-agrahāra-paṭṭaṅgalimdam atisāyav-appa . . . ।

'At Teridāl a merchant town situated in the centre and the first in importance among the twelve (towns) in the glorious Kundi three thousand, adorned with villages, towns, hamlets, villages sorrounded by hills, groups of villages, sea-girt towns, and chief cities, with elegant mansions, palaces and temples, and with shining agrahāra-towns in the country of Kuntala.'

(Old Kanarese Inscript. at Terdal, line 58,  
*Ind. Ant.*, Vol. XIV, pp. 19, 25.)

(10) 'With myriads of people, practices of virtue, agreeable occupations, stream of the (nine) sentiments, pleasure-gardens, separated lovers, splendid tanks, full lotus-beds, gilded boats for spring festivals, ghaṭikā-sthānas (religious centres), the supports of dharmma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus faces of beautiful women fair as the moon (grāma-nagara-kheḍa-kharvvaṇa-maḍamba-droṇamukha-pura-pattana-rājadhānī), on whatever side one looked, in these nine forms did the Kuntala-deśa shine.'—(*Ep. Carnat.*, Vol. VIII, Shikārpur Taluq, no. 197 ; Transl., p. 124, para. 1, last seven lines ; Roman text, p. 214, line 27, f.)

**KHALŪRAKA(-RIKĀ)**—Waffenübungen bestimmter Platz (*Pet. Dict.*), a parade, a place for military exercise (*M. Williams, Dict.*), a parlour, a reception-hall or a drawing-room round a house ; an enclosure-building round a house, village, city or fort.

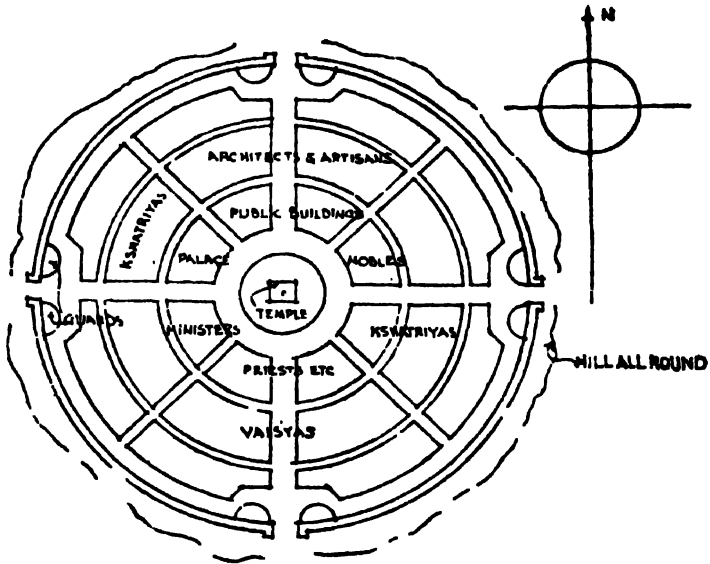
(*Kārikāgama*, LV, 20 ; see below.)

(1) Etad droṇaṁ cha bhūpānām āyudhābhyāsa-maṇḍapam ।  
Sarvaṁ daśāṁśakaṁ dīrghaṁ netra-tri-bhāga-maṇḍapam ।  
Tat-pure'lindam ekāṁśaṁ navāṁśena yutāṅkaṇam ।  
Tat-pārśve purataś chaiva te yugmāṁśe khalūrikāḥ ।  
Droṇākhyā-maṇḍapaṁ chaivam csha yuddhārtha-yogyakam ।

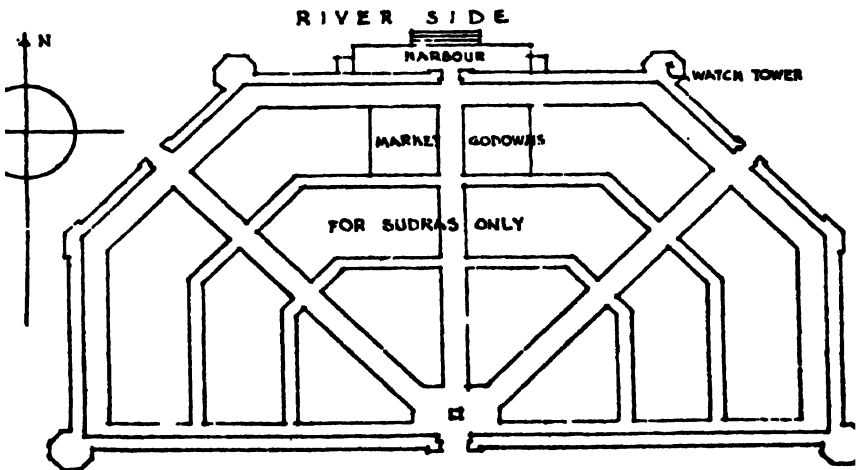
(*M.*, xxxiv, 434-439.)

Ashtāshṭāṁśa-vistāram āyāmaṁ tatra kalpayet ।  
Tan-madhye dvi-dvi-bhāgena kalpayet vivṛitāṅkaṇam ।  
Tad-bahiś chāvṛittāṁśena kuryāch chaikā khalūrikā ॥

(*Ibid.*, 440-442.)



GENERAL OUTLINE OF KHARVATA TOWN



GENERAL OUT-LINE OF KHETA TOWN  
 THERE SHOULD BE NO RESIDENCE OF KINGS OR UPPER  
 CASTE PEOPLE IN THIS VILLAGE



See also lines 433-453, and then compare :

Nṛipānām bhojanārtham syāt kharvaṭākhyam tu maṇḍapam |

(*M.*, xxxiv, 455.)

Then 'khalūrika' is stated (lines 446, 450) to be built round a dining-hall and hence not for any military purpose ; it appears like a parlour.

Compare also :

Tan-madhye pañcha-bhāgena sapta-bhāgāṅkaṇam tathā |

Tad-bāhye paritāmśena kuryād antar alindakam |

Kalūrikāpi tad-bāhye tri-tri-bhāgena maṇḍapam |

(*Ibid.*, 284-286.)

Evam vasanta-yogyam syāt devānām kshatriyādīnām |

(*Ibid.*, 296.)

Tad-vibhāga-dvi-bhāgena vistāram maṇḍapam bhavet |

Dvi-tri-bhāgāṅkaṇam pūrve eka bhāgam khalūrakam |

(*Ibid.*, 351-352.)

- (2) Evambhūtasya vāsasya samantāt syāt khalūrikā |  
 Vāsa-vyāsam chatur-bhāgam kṛtvā chaikādi-bhāgataḥ ||  
 Vṛiddhyam vāsasya bāhye tu shoḍaśavadhi-bhāgakān |  
 Vyapohya paritaḥ kuryāt prathamāvaraṇāditaḥ ||  
 Kalūrikām(s) tu chaikādi-sapta-bhāgāvasānakāḥ |  
 Mukhe cha pārśvayoḥ pṛishṭhe pattayaḥ syur yatheshṭataḥ ||  
 Oja-yugma-pramāṇena nyūnā vāpy-adhikā tu vā |  
 Sabhadrā vā vibhadrā vā khalūri syād yatheshṭataḥ ||  
 Etāsām antarālam tu samam vā vishamam tu vā |  
 Kalūri-dhāma-madhyam tu tad-vad eva vidhiyate ||

(*Kārikāgama*, xxxv, 103-107 ; see also 108-116.)

Etām khalūrikām kuryāt prāsādādishu buddimān ||

Devānām manujānām cha viśeshād rāja-dhāmani ||

Gopuram cha khalūri cha mūla-vāstu nirikshitam ||

(*Ibid.*, 107a, 118, 128.)

Samāvṛitā khalūrikā tāny-evoktāni paṇḍitāḥ |

Nagara-grāma-durgāṇām śeshāny-uktāni veśmanām ||

(*Ibid.*, LV, 20.)

**KHETAKA**—A village (*M.*, IX, 456), a fortified town (*M.*, X, 36, 39).

- (1) Tatas tan-nirmayāmāsuḥ khetāni cha purāṇi cha |  
 Grāmāś chaiva yathābhāgam tathaiva nagarāṇi cha ||  
 Khetānām cha purāṇām cha grāmāṇām chaiva sarvaśaḥ |  
 Tri-vidhānām cha durgāṇām parvatodaka-dhanvinām ||

Nagarād ardha-vishkambaḥ khetam param tad-ürddvataḥ |  
Nagarād yojanam khetam khetād grāmo'rdha-yojanam ||

(*Brahmaṇḍa-Purāṇa*, Part 1, 2nd Anushaṅga-pāda,  
Chap. vii, vv. 93, 94, 105, 111.)

(2) Pāmsu-prakāra-nibaddha-khetam |

(*Rāyapaseṇi-sūtra-vyākhyāne*, p. 206.)

(3) Khetāni dhūli-prākāropetāni |

(*Prasna-vyākaraṇa-sūtra-vyākhyāne*, p. 306.)  
(See *Kauṣīliya-Artha-sāstra*, Chap. xxii, p. 46, footnote.)

(4) Vane jana-pade chaiva kevale śūdra-sevitaḥ |

Kaṇṭakaḥ khetako grāmaḥ kramāt tri-vidham Iritaḥ |

(*Kāmikāgama*, xx, 10.)

(5) Nagarāṇi khetān jana-padāms tathā |

(*Mahābhārata*, iii, 13, 220, etc.)

(6) Pura-grāmākāra-kheṭa-vāṭa-śibira-vraja-ghosha . . .

(*Bhāgavata-Purāṇa*, 5, 30.)

(7) One of the 750 villages 'which are designated by (their chief town) Śrī-Harsapura.'—Rāshtrakuta Grant of Kṛishṇa II, *Ep. Ind.*, Vol. 1, pp. 55, 57, line 33, p. 53, footnote 3.)

(8) 'The modern khedā (khaira).'—(*Ind. Ant.*, Vol. x, p. 378; Vol. xiv, p. 198.)

(9) Lāṭa-deśāntarvartti khetaka-maṇḍalāntarggataḥ Kevañcha-nāmā grāmaḥ |—(Cambay Plates of Govinda IV, line 52, *Ep. Ind.*, Vol. vii, pp. 40, 45.)

(10) Śrī-khetākāhāre-uppalahetā-pathake mahilābali-nāma-grāmaḥ |

'The village, named Mohibābali, in the Uppalahetāpathaka in the famous Khetaka (? city) āhāra.'—(*Ind. Ant.*, Vol. vii, p. 72, Plate II, lines 5-6.)

(11) Khetākāhāram vishaye baṇḍarijidri-pathakāntarggata-aśilā-pallika grāmaḥ |

'Khetaka is of course the modern Khedā or Kaira itself (lat. 22° 44' N.; long. 72° 45' E.).'

(Alina Copper Plate Inscript. of Siladitya vii, lines 66-67, *C. I. I.*, Vol. iii, F. G. I., no. 39, pp. 179, 189, 173, and notes 2, 3.)

(12) Grāma-nagara-khedā-karvvaḍa - maḍam̄ba - droṇamukha - patta nanigalimdam aneka-māṭa-kūṭa-prāsāda-devāyatanam galidam oppuva-agrahāra-paṭtanamgalimdam atisāyavappa |

'At Teridala, a merchant-town situated in the centre and the first in importance among the twelve (towns) in the glorious, Kundī.

Three thousand, adorned with villages, towns, hamlets, villages, surrounded by hills, groups of villages, sea-grit towns, and chief cities, with elegant mansions, palaces, and with shining temples, and agrahāra-towns in the country of Kuntala.'

(Old Kanarese Inscrip. at Terdal, line 58, *Ind. Ant.*, Vol. xiv, pp. 19, 25.)

(13) ' With myriads of people, practices of virtue, agreeable occupations, streams of the nine sentiments, pleasure-gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring festivals, ghaṭikā-sthānas (religious centres), the supports of dharmma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus faces of beautiful women fair as the moon (grāmanagara - kheḍa - kharvvaṇa - maḍamba - droṇamukha-pura-pattana-rāja dhānīm) on whatever side one looked, in these nine forms did the Kuntala-deśa shine.' (It should be noticed that the passage within brackets is almost identical with the corresponding passage in quotation no. 12 above.)

(*Ep. Carnat.*, Vol. II, Shikarpur Taluq, no. 197, Transl., p. 134; para. 1, last seven lines; Roman text, p. 214, line 27 f.)

GAGANA—A kind of pent-roof.

(*M.*, xviii, 174-180; see under LUPĀ.)

GAJA (*cf.* HASTI-PRISHṬHA)—A moulding, a type of building (see under KUṆJARA), a kind of oval buildings.

(1) *Agni-Purāṇa* (Chap. civ, vv. 19-20; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 29-30; see under PRĀSĀDA).

(3) See the plan and sections of a Gaja-prishṭhākṛiti building.—(*Ind. Ant.*, Vol. XII, between pages 104-5.)

GANYA-MĀNA—The comparative height of the component members of an architectural structure. In the sculptural measurement, the similar height is generally called ' tāla-māna. '

Implying the comparative height of the component members of the buildings of one to twelve storeys :

Janmādi-stūpi-paryantaṁ ganya-mānam ihochyate |  
Harmye chāshṭa-tale tuṅge sāsṭa-bhāgādḥikam tathā |

Sārdha-dvyaṁśam adhishṭhānaṁ tad-dvayaṁ pāda-tuṅgakam ।  
Tad-ardhaṁ prastarotsedhaṁ sesham aṣṭa-taloktavat ।  
Evaṁ nava-talotsedhaṁ sarvāṅkāra-samhyutam ।

(M., xxvii, 35-39.)

Evaṁ vistāra-gaṇyaṁ syāt tuṅga-gaṇyam ihochyate ।  
Janmādi-stūpi-paryantam uktavat saṁgrahaṁ viduḥ ।

(M., xxix, 36-37 ; see also 38-49 under  
EKĀ-DAŚA-TALA.)

See the details of the other storeys under EKA-TALA, DVI-TALA, TRI-TALA, CHATUS-TALA, PAÑCHA-TALA, SHAṬ-TALA, SAPTA-TALA. AṢṬA-TALA, DAŚA-TALA, EKĀ-DAŚA-TALA and DVĀ-DAŚA-TALA.

The similar comparative measurement referring to the sixteen storeys of the gopuras (gate-houses) :

Tuṅge cha trayo-vidhā bhāgam evaṁ vibhājite ।  
Ekā-daśopapīṭhaṁ cha chatur-bhāga(m) masūrakam ।  
Vasu-bhāgāṅghri-tuṅgaṁ syāt shad-bhāgaṁ tu vibhājite ।  
Tri-bhāgaṁ chopapīṭhaṁ tu śiva-bhāga(m) masūrakam ।  
Dvi-bhāgaṁ pāda-tuṅgaṁ syāt tad-ūrdhve prastarād(h)ikam ।  
Śikhāṁśam chordhva-māne tu talānām adhunochoyate ।  
Adhishṭhāna-samaṁ mañcha(m) tat-samaṁ gala-tuṅgakam ।  
Galochcha-dvi-guṇaṁ proktaṁ śikharasyodayaṁ nyaset ।  
Śikharordhva(m) śikhottuṅgaṁ stūpi(pi)-traya-sam(m)eva cha ।  
Evaṁ eka-talaṁ proktaṁ dvi-talādi-tala(m) eva cha ।  
Kshudra-madhyāṁ cha mukhyānām gopurc tu viśeshataḥ ।  
Prastarādi ( ? upānādi)-śikhāntaṁ syāt gaṇya-mānaṁ pravakshyate ।

(M., xxxiii, 133-144.)

Pūrvavat prastarādy-antaṁ chordhve stupikāntakam ।  
Gaṇya-mānaṁ cha sarvashāṁ bhāga-māna(m)-vaśochyate ।

(Ibid., 215-216.)

Bhāga-māna-vaśād gaṇya-mānaṁ yāt prochyate budhailḥ ।

(Ibid., 247.)

The similar comparative measurement referring to the componet parts of throne :

Sarvashāṁ mānaṁ ity-uktaṁ gaṇya-mānaṁ ihochyate ।  
Āsanasyodayārdhaṁ vā tri-bhāgaikonam eva vā ।  
Upapīṭhodayaṁ hy-eva(m) chokta-tuṅge'dhikaṁ tu vā ।  
Śesham masūrakam vāpi samādhishṭhāna-tuṅgakam ।  
Utsedha-ravi-bhāge tu janma-tuṅgaṁ śivāṁśakam ।  
Tad-ūrdhve chārdha-kampaṁ syāt pāda-bhāgena yojayet ।

(M., xlv, 85, 96-100.)

GANITA—A site plan of 369 square plots.

(M. VII, 25-26 ; see PADA-VINYĀSA.)

The similar measurement referring to the component mouldings of the Pīṭha (yoni or the pedestal of the phallus) :

Pīṭha-tuṅgam iti proktaṃ gaṇya-mānam ihochyate ।  
 Utsedhe shodaśāṃśe tu prathamochcharṇ dvi-bhāgikam ।  
 Padmochcharṇ tu tri-bhāgam syāt tad-ūrdhve kshepaṇāṃśakam ।  
 Kandharaṇ cha tri-bhāgam syāt tad-ūrdhve kampam aṃśakam ।  
 Ūrdhva-padmaṇ tr(i)yaṃśam syād vājanam cha tri-bhāgikam ।  
 Ekāṃśam gṛīta-vāri syād bhadra-pīṭham iti smṛitam ।

(M., LIII, 29-34.)

The similar measurement referring to the component mouldings of the upa-pīṭha or pedestal of the column :

Etat tu nirgamaṇ proktaṃ gaṇya-mānam ihochyate ।  
 Utsedhe tu chatur-viṃśat pañchāṃśopānam iritam ।  
 Ekena kampam ity-uktaṃ grīvochcharṇ dvā-daśāṃśakam ।  
 Kampam ekaṇ tu vedāṃśam vājanam kampam aṃśakam ।  
 Vesi-bhadram iti proktaṃ athavā dvā-daśāṃśakam ।

(M., XIII, 35-39.)

GAṆḌA-BHERAṆḌA-(STAMBHA) —A kind of pillar.

(See under STAMBHA.)

GADĀ—A type of octangular buildings.

(1) *Agni-Purāṇa* (Chap. CIV, vv. 20-21 ; see under PRĀSĀDA.)

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 31-32 ; see under PRĀSĀDA.)

GANDHA-KUṬI(-I)—The Buddhist temple, any chamber used by Buddha. Originally Buddha's abode in the Jetavana monastery at Śrāvastī, later, all chapels and temples wherein the Buddha images were installed.

(1) Puṇyoddeśa-vaśaḥ chakāra ruchiraṇ śāuddhodaneḥ śraddhayā śrīmad-gandha-kuṭīm imam iva kuṭīṇ mokshasya saukhyasya cha ।

'—has constructed this gandha-kuṭī of Buddha, graceful and like a hall of emancipation and bliss for the spiritual benefit of'—

'Gandha-kuṭī' is lit rally a 'chamber of perfume,' an epithet applied to Buddha temples. The large temple at Buddha Gayā is called, in the inscriptions, 'Mahā-gandha-kuṭī-prāsāda' (*Ind. Ant.*, Vol. IX, pp. 142-143) and the room in which Buddha lived in Jetavana at Śrāvastī was also known



by this name (Cunningham's *Bharhut Stūpa*, Plate xxxviii, and page 133, no. 22).

(An Inscript. at Gaya, v. 9, *Ind. Ant.*, Vol. x, pp. 342, 343, note 8.)

(2) Kṛitavantau cha ॥ vinām aṣṭa-mahā-sthāna-śaila-gandha-kuṭīm—'they constructed this new gandha-kuṭī (made) of stone; (coming from) eight holy places.'

Gandhakuṭī—'perfumed chamber, any private chamber devoted to Buddha's use.' Childers (s. v.).

The gandha-kuṭī at Jetavana near Śrāvastī is represented on a Bharhut bas-relief.

See also Cunningham's *Bharhut Stūpa* (Plate LVII).

See Sarnath inscription of Mahipālala (line 2, *Ind. Ant.*, Vol. xiv, p. 140, note 7).

(3) 'Gandha-kuṭī'—'the hall of perfumes,' i.e., 'the Buddhist temple.' (Bharhut Inscript. no. 40, *Ind. Ant.*, Vol. xxi, p. 230, note 34 refers to *Arch. Surv. of W. India*, Vol. v, p. 77 and to *Ind. Ant.*, Vol. xiv, p. 140, already quoted above.)

(4) 'On the other side of his (Buddha's) body, towards the west, he caused to be built a beautiful gandha-kuṭī, pleasing to the eye.'—(Ajanta Inscript. no. 4, line 27, *Arch. Surv.*, New Imp. Series, Vol. iv, pp. 130, 132.)

**GANDHA-MĀDANA**—A class of pavilions.

(*M.*, xxxiv, 154; see under MAṆḌAPA.)

**GANDHARVA**—A class of demi-gods inhabiting Indra's heaven, and serving as celestial musicians. See the description of their images.

(*M.*, lviii, 8, 16-19.)

**GABHĀRĀ (GARBHĀGĀRA)**—An underground shrine, the sanctuary of a temple, the room where the deity is placed, a private room, the female apartments, a lying-in chamber.

'Through the door at the east end of the hall, we descent by some nine steps into the gabhārā or shrine, which is also square, measuring 13 feet 9 inches each way.'—(The temple of Amarnāth, *Ind. Ant.*, Vol. iii, p. 318, c. 1, last para.)

**GARUḌA**—The king of birds, the sun-eagle; 'winged beings, resembling the griffin, mythical creatures (suparṇa), foes of nāgas' (Gründel: *Buddhist Kunst in India*, p. 47); a type of building

which is shaped like the sun-eagle (garuḍa), has wings and tail, and seven storeys, twenty cupolas (aṇḍa) and 24 cubits wide.

Nandī tadākṛitir jñeyaḥ pakshādi-rahitaḥ pūnaḥ ||

Garuḍākṛitīś cha garuḍaḥ |

Commentary quotes clearer description from Kāśyapa :

Garuḍo garuḍākāraḥ paksha-puchchha-vibhūshitaḥ |

Cf. Karāṇām śhaṭ-chatushkāmś cha vistīrṇau sapta-bhūmikau |

Daśabhir dviguṇair aṇḍair bhūshitau kṛayet tu tau ||

(1) *Brihat-Saṃhitā* (LVI, 24. *J.R.A.S.*, N. S., Vol. VI, p. 319).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 41-43, 51 ; see under PRĀSĀDA).

(3) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 31 ; see under PRĀSĀDA).

A type of oval building :

(4) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 29-30 ; see under PRĀSĀDA).

In connexion with the temples of the attendant deities :

(5) Yan-mūla-harmye vṛishabhādi-vishṇur-ādi

Maṇḍapādi-garuḍādi cha gopurādīn |

Tan-mūla-harmya-paritaḥ sthita paśyate'smin (?)

Kuryāt tu sarva-parivāram idaṃ praśastam |—(*M.*, XXXII, 168-171.)

The description of the image of Garuḍa—(*M.*, LXI, 1-148).

Compare also *M.*, XIX, 224.

**GARUḌA-SK(-T)AMBHA** (see under STAMBHA)—Pillars generally bearing the statues of the garuḍa-bird and belonging to the Vaishṇavas.

'Had the temple built, and setting up this śāsana erected a garuḍa-stamba in front.'—(*Ep. Carnat.*, Vol. XII, Pavugada Taluq, no. 78 ; Transl. p. 190.)

**GARUTMAN** (see GARUḌA)—A type of oval buildings.

(*Agni-Purāṇa*, Chap, CIV, vv. 19-20 ;  
see under PRĀSĀDA.)

**GARBHA**—The womb, the foundation, the adytum, the chamber in a temple where the deity is placed, halls of various shapes and sizes used for various purposes. Compare NALIKĀ-GARBHA (rectangular halls), ŚIBIKĀ-GARBHA (square halls), and HARMYA-GARBHA (top rooms, etc.).

(1) Vistārārđham bhaved garbho bhittī-anyaḥ samantataḥ |

Garbha-pādena vistīrṇaṃ dvāraṃ dvi-guṇaṃ uchchhritam ||

'The adytum measures half the extent (of the whole) and has its separate walls all around. Its door is one-fourth of the adytum in breadth and twice as high.'

(*Bṛhat-Saṁhitā*, LXI, 12, *J.R.A.S.*, N. S., Vol. VI, p. 318.)

(2) Rājā prāsāda-garbhāṁ gatvā ।

(*Hitopadeśa*, ed. Botlingk, p. 157, etc.)

(3) The foundations of the village (*M.*, IX, 7).

The adytum :

Garbhe nanda-vibhāge tu ekaikaṁ liṅga-tuṅgakam ।

Garbha-tāra-samaṁ śreṣṭhaṁ tri-vidhaṁ liṅga-tuṅgakam ।

(*M.*, LI, 16, 21.)

(4) Śrāvastīyānām mahā-mātrānām śāsanām mānavasiti-kaṭāt ।

Śrīmati varṁśagrāma evaite dve koṣṭhāgāre tri-garbhe . . . ।

'The order of the great officials of Śrāvastī (issued from their camp at Mānavasitikaṭa; these two store-houses with three partitions (which are situated) even in famous Varṁśagrāma require the storage of black loads of panicum.'

(Sohgaura Copper Plate, lines 1-2, *Ind. Ant.*, Vol. XXV, p. 265.)

GARBHA-GE(-RI)HA—The central hall, the adytum, the sanctuary in the middle of which is placed the statue of the deity; this is sometimes called mūla-sthāna (*see* GARBHĀGĀRA).

(1) Harṁya-tāre tu bhūtāṁśaṁ tr(i)yaṁśaṁ garbha-gehakam ।

(*M.*, XIX, 114; *see also* 119.)

Garbha-geha, madhya-koṣṭha, and nāli-geha are used in the same sense (central hall, *cf.* *M.*, XXXIII, 301, 305, 309, 313 and 318).

Dvi-talc tāra-saptāṁśaṁ vedāṁśaṁ garbha-gehakam ।

(*M.*, XXXIII, 164; *see also* 161.)

Garbha-gehc tu mānaṁ syāt liṅga-tuṅgaṁ prakalpayet ।

(*M.*, LII, 22; *see also* LIII, 4.)

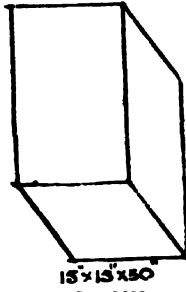
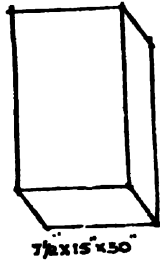
(2) And the balance he will apply to building the garbha-griha and enclosure of the goddess's temple.—(*Ep. Carnat.*, Vol. VIII, Part I, Sagar Taluq, no. 135; Roman text, p. 225; Transl., p. 119, last para., last line.)

(3) 'His wife (with various praises) Kallard-Siyamma had the shrine (garbha-grihada) of the god Sidda-Mallikārjuna renewed.'—(*Ep. Carnat.*, Vol. X, Gubbi Taluq, no. 29; Roman text, p. 41; Transl., p. 23, line 8.)

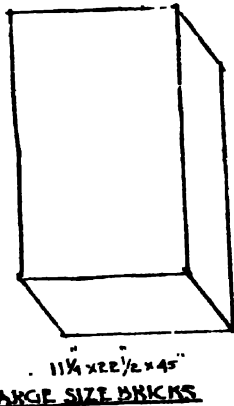
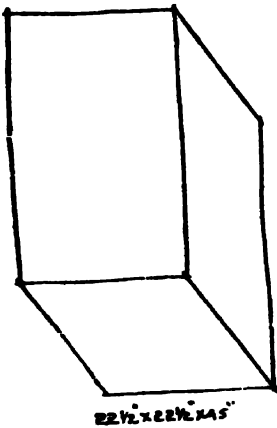
(4) Garbha-griha-sthita-maṅṭapa-śikhara—'the ruined tower over the shrine (of the god Arkanātha).'—(*Ep. Carnat.*, Vol. III, Maḷavalli Taluq, no. 64; Roman text, p. 127, line 3; Transl., p. 63.)



SMALL SIZE BRICKS



INTERMEDIATE SIZE BRICKS



LARGE SIZE BRICKS



(5) 'Garbha-griha—sanctum of a temple.'

(6) Vincent Smith's Gloss. (*loc. cit.*) to Cunningham's *Arch. Surv. Reports*.

**GARBHA-NYĀSA**—Laying the foundation, the foundations.

*Mānasāra* (Chap. XII, 1-128, named Garbha-nyāsa) :

The foundation is classed under three heads—for buildings (lines 4-169) for villages, etc. (lines 172-186) and for tanks, etc. (lines 188-216).

The last-named foundation, which is meant for a tank, well or pool is said to be as high as the joint palm of man (narāñjali, line 188).

The foundation of buildings is first divided into two classes, as it belongs to temples (lines 4-149) and to human dwellings (lines 155-169). Of temples, those of Vishṇu (lines 4-137) and Brahman (lines 139-149) are illustrated and the others are said to be like these (*cf.* line 132).

Of the human dwellings, there are four classes according to the four castes—Brāhman, Kshatriya, Vaiśya and Śūdra.

The depth of the foundation-pit is stated to be equal to the basement :

Garbhāvāṭasya nimnam syād adhishṭhāna(m)-samonnatam |

Ishtakair api pāshāṇaiḥ chatur-aśram samam bhavet |

(*M.*, XII, 6-7.)

The details of laying the foundations are given (*M.*, XVII, 6-9) :

The best ground selected for foundations is excavated to the depth of a man's height with uplifted arms. The bottom of the pit thus excavated should be rocky or water, and the pit is filled with sands and water which are closely pressed and hardened by means of wooden hammers shaped like the elephant's foot. Upon such foundations, the strength whereof varies according to the weight of the construction above, various structures are constructed.

From this it would appear that the best soils for receiving foundations are rock, gravel, or closely-pressed sandy earth.

**GARBHA-BHĀJANA**—The foundation-pit, the excavation.

(*Ibid.*, 103.)

**GARBHA-MANJUSHĀ(-IKĀ)**—The basket-shaped roof upon the foundation-pit, the vault.

(*Ibid.*, 47.)

**GARBHA-VINYĀSA** (*see* GARBHA-NYĀSA)—The arrangement of the foundation, the foundations.

(*M.*, XII, 2.)

Garbha-nyāsa-vidhiṃ vakshye grāmādināṃ cha sadmanām ।  
Sa-garbhāṃ sarva-sāmpattiyair vigarbhāṃ nāśanaṃ bhavet ॥

(*Kāṃikāgama*, XXXI, 2-104.)

**GARBHA-SŪTRA**—The line in the interior or middle, the inner or central line of a foundation.

Garbha-sūtrasya karṇaiś cha dvi-dvi-śaṅkuṃ nikhānayet ।

(*M.*, VI, 105.)

**GARBHĀVATA**—The foundation-pit, the excavation.

(*M.*, XII, 5 ; *see* under GARBHA-NYĀSA.)

**GALA** (*see* KAṆṬHA)—The neck, a moulding called dado, the frieze of the entablature.

*See* the lists of mouldings under ADHISHṬHĀNA., UPARIṬHA and PRAS-TARA.

*See* *Kāṃikāgama* (LIV, 47) under PRASTARA.

**GALA-KŪṬA** (*see* KŪṬA)—A side-tower, a dome at the neck-part of a building.

**GALĀṄGA**—Literally neck portion, the middle member, the frieze of the entablature which lies between the architrave and the cornice.

(*See* *Kāṃikāgama*, LIV, 47, under PRASTARA.)

**GAVĀKSHA** (*see* VĀTĀYANA)—Windows resembling the cow's eye, a latticed window.

Sārdha-gavākshakopeto nirgavāksho'thavā bhavet ।

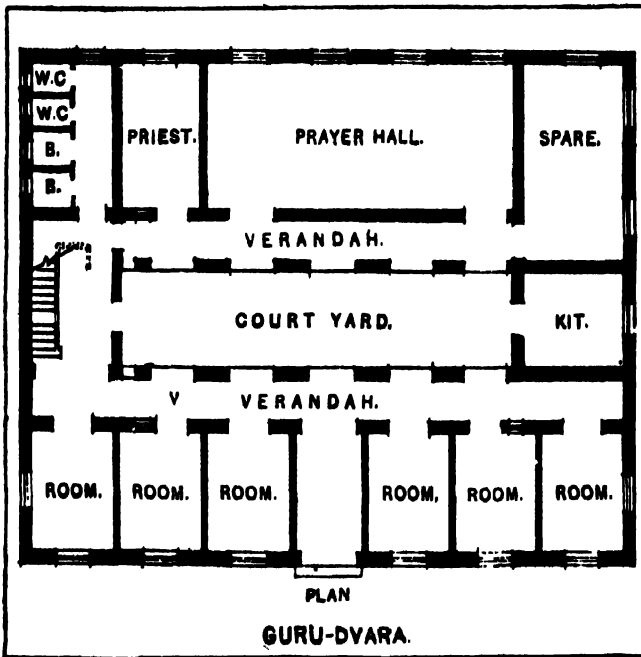
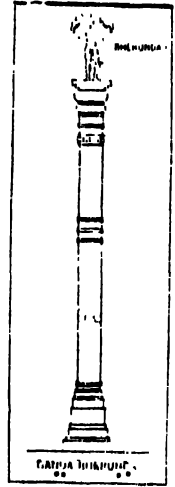
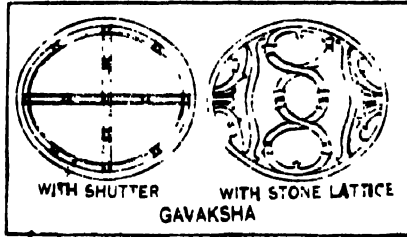
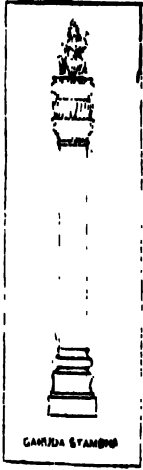
(*Garuḍa-Purāṇa*, Chap. XLVII, v. 36.)

*Cf.* *M.*, XVIII, 290 ; XX, 81 ; XXXIII, 582, etc.

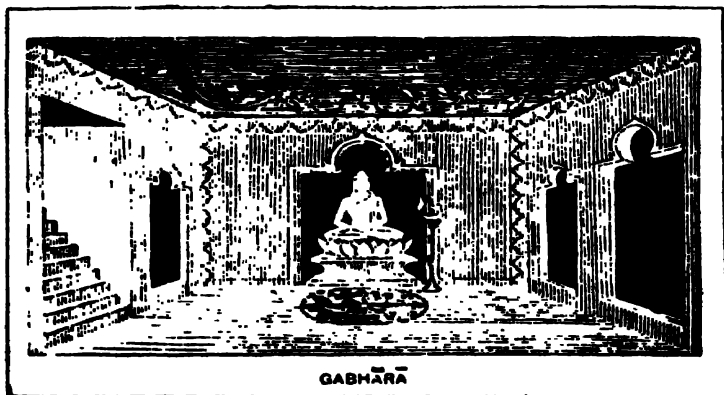
'The chief adornment of the temple at Gaṅgai-koṇḍa-puram is the repetition everywhere on the cells and cornices of the fanlike window ornament resembling a spread peacock's tail.'—(*Ind. Ant.*, Vol. IX, p. 118, c. 1, para. 3, last sentence.)

*See* Pallava Architecture (*Arch. Surv.*, New. Imp. Series, Vol. XXXIV, Plate CXXII).

*See* the pierced window in Bhoganandiśvara shrine (*Mysore Arch. Report*, 1913-14, Plate v, fig. 2, p. 14).







GAMBHARA

**GAVĀKSHĀKĀRA**—Resembling the cow's eye, a moulding or structure shaped like a cow's eye.

In connexion with the bedsteads :

Vṛittākṛittishṭa-pādānām yuktyā varṇena lepayet |  
Gavākshākāra-yuktyā cha paṭṭikordhve samantataḥ |  
Kufjarāksham alaksham vā patra-pushpādy-alankṛitam |

(*M.*, XLIV, 21-23.)

**GĀTRA**—Literally the body, the columns of a pavilion.

(*Suprabhedāgama*, XXXI, 102-103 ; see under MAṆḌAPA.)

**GĀNAVA**—A kind of phallus.

(*Kārikāgama*, I, 35, 37 ; see under LĪṆGA.)

**GIRI-DURGA** (see DURGA)—A fort, a hill-fort.

*Cf.* ' In the reign of Chikka-Deva-Rāya-vodeya-raiya the servant of the lord of this village, Biḷugeli Kempar-ājayya's son Dasarajayya began to build the stone fort of Nijagal, which has received another name of Sura-giri-durgga.'

' In 1698 to 1700 the bastions of the fort and the town-gate on the east were completed. In 1701 to 1702 the town-gate on the south was made. In Pārthiva (1705) the elephant-gate on the east, this hall and the chāvaḍi with the tiger-face gate, and the Vighneśvara temple at the town-gate on the south ' (were built).—(*Ep. Carnat.*, Vol. IX, Nelamangala Taluq, no. 65 ; Roman text, p. 54 ; Transl., p. 45.)

**GURU-DVĀRA**—A Sikh monastery, the Sikh temple where the Grantha Saheb is worshipped. Literally, same as the Jain Tirthāṅkara or path-maker.

See Vincent Smith's Gloss. (*loc. cit.*) to Cunningham's *Arch. Surv. Reports*.

**GUVĀ-VṚIKSHA**—A type of round buildings.

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 21, 23, 28-29 ;  
see under PRĀSĀDA.)

**GUHA-RĀJA**—A type of building which is 16 cubits wide and has a roof with three dormer-windows.

(1) *Bṛihat-Saṁhitā* (LVI, 25, *J.R.A.S.*, N. S., Vol. VI, p. 319 ; see under PRĀSĀDA.)

(2) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 32 ; see under PRĀSĀDA.)

GRĪHA—The house, a building, a room, a hall, a family home.  
(R.-V., x, 91-92.)

Gṛihaṃ gehodavasitaṃ veśma sadma nīketanam ॥  
Nīśānta-vastyā-sadanam bhavanāgāra-mandiram ।  
Gṛihāḥ purnsi cha bhūmny-eva nikāyya-nīlayālayāḥ ॥

(Amarakōsha, II, ii, 4, 5.)

Cf. Sudīpika-gṛiham—'a house of beautiful lamps'.—(Three Insc. from Travancore, no. B, line 3, *Ep. Ind.*, Vol. IV, p. 203.)

See *M.*, IX, 7, 8; XXXVI, 2; XXXVII, 1; XL, 78, etc.

GRĪHA-KĀNTA—A class of the five-storeyed buildings.

(*M.*, XXIII, 30-32; see under PRĀSĀDA.)

GRĪHA-GARBHA (see GARBHA-NYĀSA)—The foundation of a house.

Gṛiha-garbhāṃ iti proktaṃ grāma-garbhāṃ ihochyate ।  
Gṛiha-garbhāṃ antar-mukhaṃ syād grāma-garbhāṃ bahir-  
mukhaṃ ।

(*M.*, XII, 167, 216.)

GRĪHA-CHULLĪ—A building with an eastern and western hall, 'a house with two rooms contiguous to each other, but one facing west and the other east.'

(*Bṛihat-Saṃhitā*, LIII, 40.)

GRĪHA-PINḌĪ (see PĪṆḌIKĀ)—The basement of a building.

. . . gṛiha-piṇḍir athochyate ॥  
Madhye chāsāvṛitaṃ vāsāvāsa-piṇḍikāndhāriketi cha ।  
Samjñeyam gṛiha-piṇḍeḥ sayāt . . . ॥

(*Kāmikāgama*, LV, 200-201.)

GRĪHA-PRAVEŚA—The opening of or the first entry into the house, the house-warming ceremony.

*Mānasāra* (Chap. XXXVIII, 1-89, named Gṛiha-praveśa).

The ceremonies in connexion with the opening of and first entry into a house are described in detail (lines 1-90). The consideration of auspicious day and moment, and the worship and sacrifice in this connexion are also described in detail (lines 5-74). The masters of the ceremonies are stated to be the sthapati (architect) and the sthāpaka (lines 14, 15, 16, 17, 58, 73, 74, 83, 85). They lead the procession in circumambulating the village and the compound before the ceremonial entry into a new house (lines 73-90). The guardian-angel of the house (Gṛiha-Lakṣmī) is prayed

to after completing the worship and sacrifice to confer happiness, comfort, plenty of wealth, children, health and long life to the master and other members of the family (lines 67-72).

The chapter closes with the description of an elaborate scheme of feeding the Brāhmins and the artists, and of liberal gifts to them for the sake of prosperity and success of the family (lines 84-90). (*See also M., IX, 8.*)

**GRIHA-MAṄGALA**—An auspicious ceremony in connexion with a newly-built house.

Sarva-maṅgala-ghoshaiś cha svasti-vāchana-pūrvakam ।  
Paśchāt(d) gṛiha-maṅgalaṁ kuryāt nānā-vastraiś cha śobhitam ।

(*M., XXXVII, 55-56.*)

**GRIHA(-MĀNA-STHĀNA)-VINYĀSA**—The dimensions and situation of houses, the location of various rooms in dwelling houses and temples and palaces.

(1) *Mānasāra* (Chap. xxxvi, 1-96. named *Griha-māna-sthāna vinyāsa*) :

The dimensions of houses in general (lines 6-13) : the breadth of a house is said to be of five kinds, from two or three daṇḍas (4 or 6 yards) to ten or eleven daṇḍas (20 or 22 yards). The length may be equal to,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ ,  $1\frac{3}{4}$ , or twice of, the breadth.

The situation : houses are built in villages, towns, settlements, suburbs, groves, hermitages, near a hill, and on the banks of a sea or river (lines 1-5) :

Dvi-jātinām cha sarveshām varṇānām vāsa-yogyakam ।  
Grihāṇām māna-vinyāsaṁ sthānaṁ cha vakshyate'dhunā ।  
Grāme cha nagare vāpi pattane khetake'pi vā ।  
Van vā chārame vāpi nadyādri(c)ś cha pārśvake ।  
Teshām tu veśmanaḥ sthānaṁ kalpayech chhīlpavit-tamaḥ ।

In the chapter on pavilions (maṇḍapas) various sorts of houses are stated to be located in different parts of the five courts into which the whole compound is divided. In that chapter houses for various purpose, of a family are located in different squares in which a single court is divided, and which have been described in the chapter called *Pada-vinyāsa*.

The *Brahma-sthāna* or the central square is stated to be unfit for a residential building (line 15). The temple of the family god is generally built in this part. Round this are constructed all other houses (lines 16-85), such as the house for the master of the family, for his wife, for the children, for servants, for cows, horses, fowls, etc., for kitchen and dining-hall, etc., for guests, for the library or

study, for the daily sacrifices of the upper castes, for amusements and music, for the dancing girls, and for all other domestic purposes. But the distribution of these several detached buildings is left to the choice of the master of the house (line 85).

(2) *Kaṣṭīya-Artha-śāstra* (Chap. xxvi, p. 53) :

Ādi-talasya pañcha-bhāgāḥ śālā vāpi, śimā-gṛihaṁ cha daśa-bhāgikau dvau prati-mañchau, antarā maṇi-harmyaṁ cha sam-uchchhrāyād ardha-talaṁ, sthūpāvabandhaś cha ārdhavastukam uttamāgāraṁ tri-bhāgāntaraṁ vā ishṭakāvabandha-pārsvaṁ, vāmataḥ pradakṣhiṇa-sopānaṁ gūḍha-bhittisopānam, itarataḥ dvi-hastam toraṇa-śiraḥ, tri-pañcha-bhāgikau dvau kavāṭa-yogau, dvau dvau pariḡhau, aratnir indra-kīlaḥ, pañcha-hasta-maṇi-dvāraṁ, chatvāro hasti-pariḡhāḥ, niveśārdhaṁ has i-nakhaḥ mukha-samas-saṅkṛimo' samhāryo vā bhūmi-mayo vā ।

'Of the first floor, five parts (are to be taken) for the formation of a hall, a well, and a boundary house ; two-tenths of it for the formation of two platforms opposite to each other ; and upper storey twice as high as its width, carvings of images, an uppermost storey half or three-fourths as broad as the first floor ; side-walls built of bricks ; on the left side, a staircase circumambulating from left to right ; on the right a secret staircase hidden in the wall, a top-support of ornamental arches projecting as far as 2 cubits, two door-panels (each) occupying three-fourths of the space, two and two cross-bar (to fasten the door) ; an iron bolt (indrakīla) as long as an aratni (24 aṅgulas) ; a boundary-gate, 5 cubits in width, four beams to shut the door against elephants ; and turrets (hasti-nakha, outside the rampart) raised up to the height of the face of a man, removable or irremovable, or made of earth in places devoid of water.'

(3) The plan of a house having a quadrangular courtyard in the centre and comprising sixteen rooms (*Vāstu-tattva*, Lahore, 1853, p. 1 f.) :

In the north-east corner is stated to be (1) the family chapel (deva-gṛiha) ; in the east (2) the room for all things (sarva-vastu-gṛiha), (3) the bathroom (snāna-gṛiha), and (4) the room for churning milk (dadhi-manthana) ; in the south-east corner (5) the kitchen ; in the south (6) the bṛi(vṛi)tasagṛiha (?), (7) the śaina-gṛiha, (? sayana=bedroom), and (8) the lavatory (purisha-gṛiha) ; in the south-west corner (9) the library (śāstra-gṛiha) ; in the west (10) the study (vidyābhyāsa-gṛiha), (11) the dining-hall (bhojana-gṛiha), and (12) the weeping (reception)-room (rodana-gṛiha) ; in the north-west corner (13) the granary (dhānya-gṛiha) ; in the north (14) the bedroom or drawing-room (sambhoga-gṛiha, or

the house for enjoying oneself in), (15) the store-room (dravya-griha), and (16) the room for invalids or medicine (aushadha-griha).

In this plan the houses face the north where the residential rooms are located. Here north is the best direction, and the west, the east and the south come in order of inferiority. This plan is suitable for western and northern India where the northern and western winds are salubrious.

- (4) *Vāstu-pravandha* (II, 25, 26, compiled by Rajakisora Varmma) :  
 Sthā(Snā)nāgāraṁ diśi prāchyām āgneyyām pachanālayam |  
 Yāmyāyām śayanāgāraṁ nairṛityām śāstra-mandiram ||  
 Pratichyām bhojanāgāraṁ vāyavyām paśu-mandiram |  
 Bhāṇḍa-kośam chottarsyām aiśinyām deva-mandiram ||

This is a smaller house with eight rooms. Here the bedroom is located in the south, indicating the southern aspect of the house, suitable for southern and eastern provinces.

- (5) *Śilpa-śāstra-sāra-saṅgraha* (IX, 24-28) :  
 Īśānyām devatā-gehaṁ pūrvasyām snāna-mandiram |  
 Āgneyyām pāka-sadanam dravyāgāraṁ tathottare ||  
 Āgneya-pūrvayor madhye dadhi-manthana-mandiram |  
 Agni-pretśayor madhye ājya-gehaṁ praśasyate ||  
 Yāmya-nairṛityayo(r) madhye puriśha-tyāga-mandiram |  
 Nairṛityām-bu(?)payor madhye vidyābhāśasya-mandiram ||  
 Paśchimānilayor madhye rodanārthaṁ gṛihaṁ smṛitam |  
 Vāyavottarayor(r) madhye ratī-gehaṁ praśasyate ||  
 Uttareśānayor madhye aushadhārthaṁ tu kārayet |  
 Nairṛityām sūtikā-gehaṁ nṛipāṇām bhūtim ichchhatām ||

- (6) *Matsya-Purāṇa* (Chap. CCLVI, vv. 33-36) :  
 Īśāne devatāgāraṁ tathā śānti-gṛihaṁ bhavet ||  
 Mahānasam tathāgneye tat-pārśve chottare jalam |  
 Gṛihasyopaskaram sarvaṁ nairṛitye sthāpayed budhaḥ ||  
 Ba(n)dha-sthānam bahiḥ kuryāt snāna-maṇḍapam eva cha |  
 Dhana-dhānyam cha vāyavye karma-śālām tato bahiḥ ||  
 Evam vāstu-viśeṣaḥ syād gṛiha-bharttuḥ śubhāvahaḥ ||

In plans (5) and (6) it should be noticed, the bandha-sthāna (*i.e.* place to bind in? slaughter-house, vadha-sthāna), the bathroom and the office (karma-śālā) are directed to be built outside the (residential building proper). Both these are nine-roomed houses facing the north-east. In this house, rooms are all built in the corner, the four main directions being left entirely vacant. This is stated to bring peace, prosperity and health to householders.

(7) *Agni-Purāṇa* (Chap. cvī, vv. 18-20) :

Pūrvāyām śrī-grihaṁ prokṣtam āgneyyām vai mahānasam ।  
 Śayanam dakṣiṇasyām tu nairṛityām āyudhāśrayam ॥  
 Bhojanam paśchimayām tu vāyavyām dhānya-saṁgrahaḥ ।  
 Uttare dravya-saṁsthānam aiśānyām devatā-griham ॥  
 Chatuḥ-sālām tri-sālām vā dvi-sālām chaika-sālākam ।  
 Chatauḥ-sālā-grihāṇām tu śālāindaka-bhedataḥ ॥

This plan is specially meant for houses in towns, etc. (*cf.* vv. 1-12). It recommends the four typical arrangement of houses, namely, rooms being built covering the four sides with the courtyard in the middle ; rooms being on three sides and the fourth side in continuation of the courtyard being left free for light and air ; rooms being built on two sides only ; and rooms being built on one side only, apparently without any courtyard. This is an eight-roomed plan.

(8) *Griha-vāstu-pradīpa* (Lucknow, 1901) quotes from some authority without mentioning his name the following :

Atha nṛipāṇām shoḍaśa-griha-rachanopāyaḥ ।  
 Snāna-pāka-śayanātra-bhujesva(?)-dhānya-bhaṁḍāra-daivata-gṛihāṇi  
 cha pūrvata(h) syuḥ ।  
 Tan-madhyas tu mathana-ājya-purisha-vidyābhyāsākhyā-rodana-  
 rataushadha-sarva-dhāma ॥

(9) *Kāmikāgama* (xxxv, 177-191) :

Aiśānyām pachana-sthānam brāhmaṇānām vidhīyate ।

(And of the Kshatriyas to the south-east, of the Vaiśyas to the south-west, and of the Śūdras to the north-west, vv. 177-178).

Pūrvasyām bhojana-sthānam āgneyyām tu mahānasam ।  
 Yāmyāyām śayana-sthānam nairṛityām āyudhālayaḥ ॥ (179)  
 Maitra-sthānam tu tatra tatra vāruṇyām udakālayaḥ ।  
 Goshthāgāram cha vāyavyām uttarasyām dhanālayaḥ ॥ (180)  
 Nitya-naimittikārtham syād aiśānyām yāga-maṇḍapam ।  
 Kāñji-lavaṇayoḥ pātram prāg-udag-diśi vinyaset ॥ (181)  
 Antarikṣhe' pi vā chullyulūkhali savitā api ।  
 Anna-prāśanam āryāṁśe chendragṇyām cha savitrake ॥ (182)  
 Vivasvad-amśe śraṇam vivādo maitra-deśake ।  
 Kshaudram indrajaye vidyād vāyau some cha vā bhavet ॥ (183)  
 Vitathopanayoś chaiva pitṛi-dauvārika pade ।  
 Sugrīve pushpa-dante cha prasūti-griham ishyate ॥ (184)  
 Apavatse tu kośaḥ syāt kuṇḍam āpe vidhīyate ॥ (184a)  
 Aṅkaṇam tu mahendrāṁśe peshāṇi cha mahīdhare ॥ (185)  
 Arishāgāram ishṭam syāt tatropaskāra-bhūmikam ॥ (186)  
 Vāhanam dvāra-yāme syāt snāna-śālā cha vāruṇe ।

Asure dhānya-vāsaḥ syād āyudhād (?) indra-rājake ॥ (187)

Mitravāsas tathā mitre roge volūkhalaṁ matam ।

Bhūdarā kośa-gehaṁ syān nāgārnśe gṛītam aushadham ॥ (188)

Jayante chāpavatsē cha parjanya cha śive kramāt ।

Viśha-pratyauśhadhaṁ chāiva kūpe deva-gṛīhaṁ bhavet ॥ (189)

Ṛikṣha-bhallāṭa-someshu bhaved āsthāna-maṇḍapam ॥ (191)

This is a plan with the southern aspect. It comprises thirty rooms and the arrangement is much like in the *Mānasāra*.

Compare the *Mānasāra* (XL, 71-111, antaḥ-śālā, or houses in the inner court ; 112-153, bahiḥ-śālā, or buildings forming the part of the palace in the outer court, see under RĀJA-HARMYA.)

The internal arrangement of rooms in small dwelling houses is essentially like those described above. In the large edifices, palaces and mansions the buildings of various storeys are artistically arranged. There are stated to be one to seven enclosures in palaces of kings of nine orders. These enclosures are surrounded by walls, each of which is furnished with a large gateway known as the gopuram. In the innermost court (antarmaṇḍala, with the gateway called the dvārasobhā) are erected the residential palaces of the king, queens and princesses, and would be analogous to the Muslim harem. In the second circle (antaṇihara, with the gateway called dvāra-śālā) are built the edifices for the crown prince and other princes, royal priests, ministers and such other people. In the middle court (madhyamā hārā, with the gateway dvāra-prāsāda) are built mansions for council hall, office rooms, and quarters for the resident members of the council, high civil and military officers, resident clerks and others. Within this enclosure in some properly secured lanes are built secret residences for the king. In the fourth enclosure (prākāra, with gateway dvāra-harmya) are quartered the foreign offices, for negotiating war, peace and such other matters. In the fifth court (mahāmaryāda, with the gateway called the great gate-house) are erected military quarters, barracks, and offices of smaller importance. The sixth and the seventh enclosures, which are not included in the smaller palaces, are reserved for the defence forces, guards, royal stables, houses for domestic animals, zoological gardens, etc. which are sometimes accommodated in the fifth court also. Prisons, cemeteries, cremation grounds and temples of certain fearful deities are quartered beyond the palace compounds. Temples are built within each court. The pleasure-gardens, orchards, tanks, etc. are suitably built within all the enclosures. In each of the enclosures mansions of one to twelve storeys are artistically arranged in rows varying from one to ten, while the gate-houses are furnished with one to seventeen storeys.



The exact situation of particular private and public buildings is specified. Thus it is stated that the main royal chapel should be built in the central plot known as the Brahmapiṭha, and the public audience hall in the quarter of Yama, Soma, Vāyu, or Nairṛita in accordance with the situation of the palace in a particular province or city, and so forth.

For fuller details *vide* the writer's article *A Peep into the Early Hindu Architecture*,—*The Modern Review*, September, 1934, pp. 282–287.

**GRĪHA-MUKHA**—A door, a façade, the exterior, front or face of a building.

Dānaṃ ghara-muḥ ha ।

(Karle Cave Inscript. nos. 4, 6, *Ep. Ind.*,  
Vol. VII, pp. 52–53.)

‘A façade implies also the architrave and sculpture round the door with the arc over it.’ Dr. Burgess.—(Karle Inscript. no. 4, *Arch. Surv.*, New Imp. Series, Vol. IV, p. 90, note 4.)

**GRĪHA-RĀJA** (*see* GUHA-RĀJA)—A type of building.

(1) *Bhaviṣhya-Purāṇa* (Chap. CXXX, v. 32 ; *see* under PRĀSĀDA).

(2) *Agni-Purāṇa* (Chap. CIV, vv. 16–17 ; *see* under PRĀSĀDA).

(3) *Garuda-Purāṇa* (Chap. XLVII, vv. 21–22, 26–27 ; *see* under PRĀSĀDA).

**GRĪHA-STAMBHA**—The main column of the house, the pillar regulating the whole composition.

Kuḍya-stambhe grīha-stambhe harmya-garbhāṃ vinikshipet ।

(*M.*, XII, 132.)

*See* more details under STAMBHA

**GEHA(-KA)**—A hall or room, a house, a habitation.

Gopuraṃ tri-talaṃ nyāsaṃ lakṣaṇaṃ vakshyate 'dhunā ।

Dvi-bhāgaṃ bhitti-vistāraṃ paritaḥ śeṣaṃ tu gchakam ।

(*M.*, XXXIII, 489, 492.)

**GOKARNA**—A measure, the distance between the tips of the fully stretched thumb and the ring-finger.

(1) Tālaḥ smṛito madhyamayā gokarṇaś chāpy-anāmayā ।

(*Brahmāṇḍa-Purāṇa*, Part I, 2nd anuṣaṅga-pāda,

Chap. VII, v. 97.)

(2) Aṅgushṭhānāmikā-yuktaṃ gokarṇam iti saṃjñikam ।

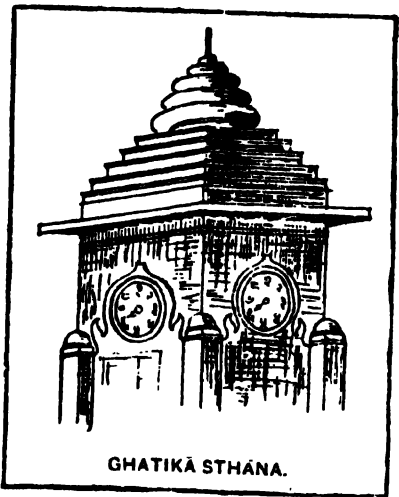
(*Suprabhedāgama*, XXX, 22.)

**GOKHLA**—The niche, a recess in a wall.

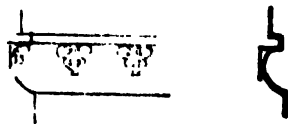
‘In the east wall of the maṇḍapa on each side, is a gokhla or niche for images, and in that on the south side is a defaced Gaṇeśa.’

‘In the vestibule to the shrine are also small recesses one on each hand.’

(*The Temple at Amarnath, Ind. Ant.*, Vol. III,  
p. 318, c. 1, para. 2, middle.)



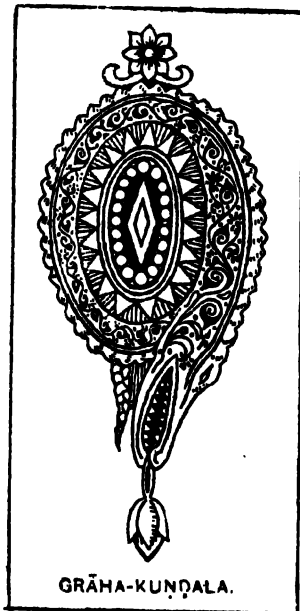
GHATIKĀ STHĀNA.



GOPĀNA OR OVOLO



GOJI.



GRĀHA-KUNḌALA.



GOJI—The septum of the nose, the bridge-like part between the two nostrils connecting the tip of the nose with the surface of the upper lip of an image.

(*M.*, LXV, 105, etc., see the lists of limbs under TĀLA-MĀN)

GOTRA—A cowstall (Roth. *St. Petersburg Dictionary*).

GOPĀNA—(GOPĀNAKA)—A moulding, the entablature, the beam.

A moulding of the pedestal generally placed between a cyma and cavetto or a cyma and fillet (*M.*, XIII, 95, 100, etc. : see the list of mouldings under UPARIṬHA).

A moulding of the base (*M.*, XIV, 32, etc. ; see the lists of mouldings under ADHISTHĀNA).

A synonym of the entablature (*M.*, XVI, 19, see under PRASTAR).

A beam-like member of the single-storeyed buildings (*M.* XIX 46).

A similar member of the buildings of two to twelve storeys.

(See *M.*, XX, 25, etc.)

A moulding of the entablature :

Daṇḍikordhve valayaṁ gopānaṁ syāt tad-ūrdhvataḥ |

(*Kāmikāgama*, LIV, 34.)

Cf. Gopānāsi tu valabhi-chhādane vakra-dāruṇi |

(*Amarakōsha* II, ii, 15.)

GOPURA—Probably originated from Vedic *Gomati-pur* and epic *Go-grihar*, the fortified extensive cowstalls, and connected with the divine bull, thus a gate-house, doors in general, the colossal buildings over or near the gate giving entrance to a city, temple, monastery, etc.

Pura-dvāraṁ tu gopuram |

Dvāra-mātre tu gopuram |

(*Ibid.*, ii, 16 : III, iii, 182.)

(1) P ā :ādāt pāda-hīnaṁ tu gopurasyochchhrāyo bhavet |

(*Agni-Purāṇa*, Chap. XLII, v. 22.)

(2) Prākāra-samaṁ mukham avasthāpya tri-bhāga-gōdhā-mukhaṁ gopuram kārayet—‘A turret above the gate and starting from the top of the parapet shall be constructed, its front resembling an alligator up to three-fourths of its height.’—(*Kauṣīṭhya-Artha-śāstra*, Chap. XXIV, p. 53.)

(3) Śāla-gopurayos tuṅgas tv-adhikaś chāpi mūlataḥ |

Gopurasyāpy-alāṅkāraṁ śālālāṅkāraṁ na yect ||

Sabhākāra-śiro-yuktaṁ śālākāra-śiraḥ-kriyam |

Maṇḍapākāra-saṁyuktaṁ chūli-harṁya-vibhūṣitaḥ ||

Agrato'indakopetam aṭṭālaṃ sālakāntare ।  
 Gopurasya tu vistāra-tri-bhāgād eka-bhāgikam ॥  
 Chatur-bhāgaika-bhāgas tu pañcha-bhāgaika-bhāgikaḥ ।  
 Nirgamo gopurāṇāṃ tu prākārād bāhyato bhavet ॥  
 Gopuraṃ cha khalurī cha mūla-vāstu-nirikshitam ।  
 Antare rāja-devīnāṃ gṛihāny-antar-mukhāni cha ॥

(*Kāmikāgama*, xxxv, 124-128.)

In the above instance, it should be noticed, the gopura or gate-house does not belong to a temple ; it is the part of a residential house.

(4) *Rāmāyāna* : vi, 75, 6, etc. : Gopurāṭṭa-pratoliṣhu chāryāsu ।

(5) *Mahābhārata* :

iii, 173, 3 : Puram gopurāṭṭālakopetam ।

iii, 207, 7 : Mithilāṃ gopurāṭṭālakavatim ।

These two examples will show that gopura denotes gate-houses of palaces and cities, and that they need not necessarily belong to temple alone.

(6) *Mānasāra* :

The gate-house of a town (*M*, x, 48).

In connexion with the height of storeys (bhūmi-lamba) :

Devatālayānāṃ nṛipāṇāṃ sālā-gopure (e)vam uttūgam ।

(*M.*, xi, 113.)

In connexion with the base (*M.*, xiv, 415).

In connexion with the column :

Prāsāde maṇḍape vāpi prākāre gopure tathā ।

(*M.*, xv, 433.)

In connexion with the windows (*M.*, xxxiii, 594.)

In connexion with images of Yakshas Vidyādhara, etc. :

Jānv-ūrita-hastau gopurodhṛita-hastakau ।

Evāṃ vidyādharaḥ proktaḥ sarvābharaṇa-bhūṣitaḥ ।

(*M.*, lviii, 16-17.)

Chapter xxxiii (named Gopura) 1-601 :

The gate-houses are built for temples and residential buildings alike (line 1). Hence it will be inaccurate to suppose that gopuras are constructed only for temples. In the *Mānasāra*, rules are laid down for gopuras belonging to residential buildings of various descriptions (*cf.* lines 2-601).

They are built in front of each of the five courts into which the whole compound of a house is divided. The gopura belonging to the first (antar-maṇḍala) is technically called the dvāra-śobhā or the beauty of the gate (line 8) ; that belonging to the

second court is known as dvāra-śālā or gate-house (line 9). The gate-house of the third court is called dvāraprāsāda (line 9), and of the fourth court dvāra-harmya (line 9). The gate-house of the fifth court or at the furthest boundary (mahā-maryādā) is known as mahā-gopura or the great gate-house (line 10).

The gopuras are furnished with as many as sixteen storeys (lines 97, 103). They are divided into ten classes (line 564) with regard to the number of architectural members designated as śikharas or cupolas, domes (stūpikā), side-tower or dome (gaḥa-kūṭa) and vestibules (kshudra-nāsi) (lines 536-564). A gopura is thus technically called Śrībhoga when its śikhā (spire) is like śālā (hall), it has a circular surrounding dome and is furnished with a side-tower, four small vestibules and eight large vestibules (lines 553-564). The remaining nine classes are called respectively Śrīvīṭāla, Viṣṇu-kānta, Indra-kānta, Brahma-kānta, Skanda-kānta, Śikhara, Stūpika and Saumya-kānta (lines 556-564).

The fifteen kinds of gate-houses referred to above may have one to sixteen or seventeen storeys. But the details of five storeys only are given, others being left to the discretion of the architects and stated to be built in the same way as those five storeys illustrated so minutely.

The measurement, both absolute and comparative, of length, breadth, and height of each storey belonging to each of the fifteen kinds of gate-houses is described at great length. The ornaments and mouldings of each storey are also given in detail. The central or main hall as well as all other rooms, together with different parts such as pillars, entablatures, walls, roofs, floors, and windows, etc., are described in great detail (*cf.* lines 2-601).

(7) Gate-tower (Hampe Inscip. of Krishnaraya, line 33, north face, *Ep. Ind.*, Vol. I, p. 336).

(8) Tower (Ranganath Inscip. of Sundarapandya v. 7, *Ep. Ind.* Vol. III, pp. 12, 15).

(9) Durgam̐ cha Tāmranagarim abhito vyadhatta prākāram uṇṇatam udānchita-gopuram̐ saḥ— he surrounded Tāmranagari with a wall surmounted by towers.—Hultzsch—(Chebralu Inscip. of Jaya, v. 27, *Ep. Ind.*, Vol. v, pp. 147, 149.)

(10) Gate-tower :

Vapra-gopura-mayair nava-harmam̐—‘ by erecting new buildings adorned with a wall and a gate-tower.’—(Mangalagiri Pillar Inscip., v. 29, *Ep. Ind.*, Vol. VI, pp. 121, 131.)

- (11) Vapra-gopura-yutair-nava-harmyaiḥ (verse 26 .  
Gopura-prākārotsava-maṁtapair upachitam (verse 27).  
Sikhara-maṁtapa-gopurālu (line 116).

(Kondavidu Insc. of Krishnaraya, vv. 26, 27, line  
116, *Ep. Ind.*, Vol. vi, pp. 236, 237, 321, 322.)

- (12) Vipulottuṅga-gopuraṁ deva-maṁdiram—'the temple of god (adorned) with lofty towers.'—(Krishnapuram Plates of Sadasivaraya, v. 56, *Ep. Ind.*, Vol. ix, pp. 336, 341.)

(13) 'In it (Taulava) country, on the south bank of the Ambu river shining like the Śrī-puṅdra (central sectarian mark on the forehead of Vaishṇavas) is Kshemapura, like Purandara (Indra's city), with glittering gopuras (temple-towers).'—(*Ep. Carnat.*, Vol. viii, Part 1, Sagar Taluq, no. 55; Transl., p. 100.)

(14) 'Built (in the year specified) the tower of the temple (gopura) of the god Śivamiśvaram udaiyar.'—(*Ep. Carnat.* Vol. ix, Bangalore Taluq, no. 139a; Transl., p. 26; Roman Text, p. 32.)

(15) 'Brought to the door of the gopura of the maṁtapa facing mukha-maṁtapa of the god Varadarāja, and having the wood-work done by the hand of the carpenter Bevoja's son Chāja-oja, and having the door set up and the iron work done by the hand of the blacksmith, Anjala Divingoja.'—(*Ep. Carnat.*, Vol. x, Malur Taluq, no. 3; Roman Text, p. 186; Transl., p. 154.)

(16) Gate-pyramid; gate-way tower.—(Colonel B. R. Branfill. *Ind. Ant.*, Vol. ix, p. 117, c. 1, p. 119; c. 1.)

(17) Nūtana-vāgi gopuravaṁ kaṭṭiṣi gopura-pratishṭhe suvarṇa-kalasa-pratishṭhe saha māḍiṣi—'erected a new gopura with golden finials in the Chāmuṇdeśvari hill.'—(*Ep. Carnat.*, Vol. iii, Mysore Taluq, no. 20; Roman Text, p. 6; Transl., p. 3.)

- (18) Virāś śrī-chika-deva-rāya-nṛpati reme purē saṁvasan ||

Śrīraṅge ramaṇiya-gopuravati kṣhoṇi-vadhū-bhūshanc ||

The heroic king Chikka-Deva Rāya, residing in the beautiful city Śrīraṅga having (i. e. which is furnished with) splendid gateways (? gate-house) an ornament to the lady Earth . . .

It should be noticed that from this instance it is clear beyond doubt that gopuras or gate-houses were constructed not only in connexion with temples but also as parts (of residential houses and) of the city-gates.

(*Ep. Carnat.*, Vol. iii, Malavalli Taluq, no. 61;  
Roman Text, p. 126, line 11 f.; Transl., p. 62.)

(19) 'With his approval causing a gopura of seven storeys to be newly erected on the eastern side of the holy presence dedicated the gopura together with its golden kalāśas, for the service of the god, to

continue as long as sun and moon.'—(*Ep. Carnat.* Vol. III, Nānjāngūd Taluq, no. 1 ; Transl., p. 95 ; Roman Text, p. 183.)

(20) Meroś śringam utāndhakāri-bhavanāṃ prāleya-pṛithvi-dhṛitāḥ  
kuṭaṃ kiṃ muravairi-nirṃmita-mahā-dvārāvati-gopuram ।  
Kiṃ vā kiṃ maya-śilpa-sāra-sahitaṃ pāṇḍūdbhavanāṃ sabhā-  
dvāraṃ guṇḍa-chamūpa-nirṃmita-mahāśaṭkaṃ samujjrim-  
bhate ॥

Sapta-dvīpa-samudra-gotra-dhara-loka-chhanda-ṛishyaśvasaṃ  
khyātāṅka-jagan-nidhāna-mahanīyāśeśha-vastu-śriyāṃ ।

Sāraṃ gopura-niṣṭha-sapta-bhuvana-vyājena śaṭko mahān  
ekibhūtam ivāvabhāti satataṃ śrī-guṇḍa-daṇḍādhipaḥ ॥

Rebuilt with seven storeys the gopura, over the doorway (and its praise).'

(*Ep. Carnat.*, Vol. v, Part 1, Belur Taluq, no. 3 ; Roman Text, III, p. 103, line 10 f ; Transl., p. 45.)

(21) ' In front of the temple of Harihara-nātha, he made a wide and beautiful gateway (gopura) of five storeys, adorned with golden kalāśas.'—(*Ep. Carnat.*, Vol. XI, Dāvaṇagere Taluq, no. 36 ; Transl., p. 47, Roman Text, p. 77-78 ; see Introduction, p. 32, para. 2, line 3 f.)

(22) See Views of the second main entrance-gopura, Kailāśa-nātha temple.'—(Pallava Architecture, *Arch. Surv.*, New Imp. Series, Vol. XXXIV Plate v.)

**GOPURĀKĀRA(-KRITI)**—Buildings of the gate-house shape.

Kechid vai mālikākārā kechid vai gopurākṛi.ṭṭ ॥

Māṭṛiṇām ālayaṃ kuryād gopurākāraṃ eva tu ॥

(*Suprabhedāgama*, XXXI, 123, 129.)

**GO-MATHA**—Literally a monastery for cows, a cowstall.

Yo dharmma-puṃjaṃ hi vichārya v(b)uddhyā so'kārayad goma-  
(ṭṭ)a-nāṃdheyam ॥

V(b)atīhādīm-pure raṃye go-maṭ(ṭṭ)aḥ kāritaḥ śubhaḥ ।

Āsrayaḥ sarva-jantūnaṃ kailās(ś)ādrir ivāparaḥ ॥

' Caused to be made the place known by the name of Gomaṭha (?).'

' This auspicious gomaṭha (?) was caused to be made in the beautiful town of Batīhādīm. (It is) a shelter to all being like another Kailāśa.'—(R. B. Hira Lal, B.A.)

But from the context the meaning of go-maṭha (*lit.* house for cows) seems certain : it is paśu-śālā or sheds for animals.

(Batīhagarh Stone Inscrip., vv. 8, 9, *Ep. Ind.*,

Vol. XII, pp. 46-47.)

**GOSHṬHA**—A cowstall.



**GOSHṬHA-PAÑJARA** (*see* PAÑJARA)—The niche or recess in the wall which generally contains a statue, and sometimes serves as a decoration.

**GOSHṬHI-(KA)**—A committee, trustees, the managing committee of a building, a club-house.

Members of Pañch or committee entrusted with the management of religious endowments. Prof. Bühler.—(*Ep. Ind.*, Vol. I, p. 190, note 50; 'trustee,' Dr. Hultzsch, *Ind. Ant.*, Vol. xi, p. 338, last line of the text.)

*Cf.* Goshṭhika-bhūtena idaṃ stambhaṃ ghaṭitam ।

(Deogaḍh Pillar Inscrip. of Bhojadeve of Kanauj, no. A, line 9, *Ep. Ind.*, Vol. iv, p. 310, 829, note 5.)

The managing committee of a building :

Garishṭha-guṇa-goshṭhyadaḥ samudadīdharad-dhira-dhīru-dāram  
atisuindavaṃ prathama-tīrthankṛin-maṃdiram ॥

(Bijapur Inscrip. of Dhavala of Hastikundi, v. 34, *Ep. Ind.*, Vol. x, p. 22.)

**GEYA**—A class of buildings.

(*Kamikāgama*, XLV, 58a-59, *see* under MĀLIKĀ.)

**GRĀMA** (*cf.* NAGARA)—A village, slightly different from towns and cities in size mostly.

(1) 'The primitive sense of this word, which occurs frequently from the *Rig-Veda*<sup>1</sup> onwards, appears to have been village. The Vedic Indians must have dwelt in villages, which were scattered over the country, some close together,<sup>2</sup> some far apart and were connected by roads.<sup>3</sup> The village is regularly contrasted with the forest (*aranya*), and its animals and plants with those that lived or grew wild in the woods.<sup>4</sup> The villages contained cattle, horses, and other domestic animals, as well as men.<sup>5</sup> Grain was also stored in them.<sup>6</sup> In the evening the cattle regularly returned thither from the forest.<sup>7</sup> The villages were probably

<sup>1</sup> I, 44, 10; 114, 1, ii, 12, 7 (perhaps to be taken as in 10); x, 146, 1, 149, 4, etc., A-V., iv, 36, 7, 8, v. 17, 4, vi, 40, 2, etc., *Vājasaneyi-Saṃhitā*, III, 45, xx, 17, etc.

<sup>2</sup> *Śatapatha-Bṛāhmaṇa*, XIII, 2, 4, 2, *Aitareya Bṛāhmaṇa*, III, 44.

<sup>3</sup> *Chhāndogya-Upanishad*, VIII, 6, 2.

<sup>4</sup> Animals: R-V., x, 90, 8, A-V., II, 34, 4, III, 10, 6, 31, 3, *Taittiriya-Saṃhitā*, VII, 2, 2, 1, *Kāṭhaka-Saṃhitā*, VII, 7, XIII, 1, *Vājasaneyi-Saṃhitā*, IX, 32, *Pañchaviṃśa-Bṛāhmaṇa*, XVI, 1, 9, *Śatapatha-Bṛāhmaṇa*, III, 8, 4, 16, etc. Plants: *Tisitriya-Saṃhitā*, v. 2, 5, 5, VII, 3, 4, 1, etc.

<sup>5</sup> A-V., IV, 22, 2, VIII, 7, 11, etc.

<sup>6</sup> *Bṛihadāraṇyaka-Upanishad*, VI, 3, 13 (Kāṇva, 22, Mādhyamdina).

<sup>7</sup> R-V., x, 149, 4, *Maitrāyaṇi-Saṃhitā*, IV, 1, 1.

open, though perhaps a fort (pur) might on occasion be built inside.<sup>1</sup> Presumably they consisted of detached houses with enclosures, but no details are to be found in Vedic literature. Large villages (mahāgrāmaḥ) were known.<sup>2</sup>

(Professors Macdonell and Keith, *Vedic Index*,  
Vol. 1. pp. 244-245.)

(2) *Kāmikāgama* (xx, 4, the definition) :

Viprair athānyair varṇair vā bhogyo grāma udāhṛitaḥ ||

The situation of the village-gods and temples (*ibid.*, xxvi 1-41).

The general arrangement (*ibid.*, xxviii, 1-21).

Further details of the same (*ibid.*, ix, 1-9 and xxx. 1-22).

Cf. Jāty-otkarsha-vaśenaiva sthānaṁ yuktyā prakalpayet |

Utkṛiṣṭānāṁ sanīpe syān nikṛiṣṭānāṁ tu dūrataḥ ||

(*Ibid.*, xxx, 9.)

(3) *Brahmāṇḍa-Purāṇa* (Part 1, 2nd anuśaṅga-pāda, Chap. vii, vv. 105, 111; see also v 94) :

Khetānāṁ cha purāṇāṁ cha grāmāṇāṁ chaiva sarvaśaḥ |

Tri-vidhānāṁ cha durgāṇāṁ parvatodaka-dhanvinām ||

Nagarād yojanaṁ khetāṁ khetād gramo'rddha-yojanam |

Dvi-krośaḥ parama-simā kshetra-simā chatur-dhanuḥ ||

(4) *Kauṣīliya-Artha-sāstra* (Chap. xxii, p. 45, 46) :

Sūdra-karshaka-prāyaṁ kula-śatāvaram pañcha-śata-kulaparam  
grāmaṁ krośa-dvi-krośa-simānam anyonya-rakshaṁ niveśayet |

Nadī-śaila-vana-ghṛiṣṭi-darī-setubandha-śālmali-śamī-kshira-vṛi-  
kshān anteshu simnām sthāpayet |

Ashṭa-śata-grāmyā madhye sthāniyaṁ chatuś-śata-grāmyā droṇa-  
mukhaṁ dvi-śata-grāmyā khārvaṭikaṁ daśa-grāmi-saṁgrahaṇa  
saṁgrahaṇaṁ sthāpayet |

'Villages consisting each of not less than a hundred families and of not more than 500 families of agricultural people of Sūdra caste, with boundaries extending as far as a krośa (2,250 yards.) or two. and capable of protecting each other shall be formed. Boundaries shall be denoted by a river, a mountain, forests, bulbous plants, caves, artificial buildings (? setubandha=bridge) or by trees such as śālmali śamī and milky trees.'

'There shall be set up a sthāniya (fortress of that name) in the centre of eight hundred villages. a droṇa-mukha in the centre of

<sup>1</sup> As now-a-days, see Zimmer, *Altindisches Leben*, 144, citing Hugel, *Kashmir*, 2, 45.

<sup>2</sup> *Jaiminiya-Upanishad-Brahmaṇa*, iii, 13, 4.

four hundred villages, and a samgrahaṇa in the midst of a collection of ten villages.'

- (5) *Tājñavaloka-Saṁhitā* (II, 167, etc.) :

Dhanuḥ-śataṁ pariṇāho grāma-kshetrāntaraṁ bhavet ।

Dve śate kharvaṭasya syān nagarasya chatuḥ-śataṁ ॥

- (6) *Manu-Saṁhitā* (VIII, 237, etc.) :

Dhanuḥ-śataṁ pariḥāro grāmasya syāt śamantataḥ ।

Śamyāpātās trayo vāpī tri-guṇo nagarasya tu ॥

- (7) *Mahābhārata* (XXII, 69, 35) :

Ghoshān nyasetā mārgcshu grāmān utthāpayced api ।

Praveśayech cha tān sarvān śākhā-nagareshv-api ॥

*Ibid*, 2, 5, 81 :

Kechid nagara-gupty-arthaṁ grāmā nagaravat kṛitāḥ ।

- (8) *Mānasāra*, Chap. IX (named Grāma). 1-538 :

According to shape the villages are divided into eight classes, namely, Daṇḍaka, Sarvatobhadra, Nandyāvarta, Padmaka, Svāstika, Prastara, Kārmuka, and Chatur-mukha (lines 2-4). (For the plans represented by these eight names, see Rām Rāz, *Ess. Arch. of Hind.*, Plates XLIII to XLVI, and the writer's illustrations.) The measurement, the ground plans, the offerings to the presiding deity, the internal arrangement, the laying out of the houses, and the ceremonial opening of new buildings are described in order (lines 5-8) :

Prathamāṁ grāma-mānaṁ cha dvitīyāṁ padaṁ vinyaset ।

Tṛitīyāṁ tad-baliṁ datvā chaturthāṁ grāma(m) vinyaset ।

Pañchamaṁ gṛiha-vinyāsaṁ tatra garbhaṁ vinikshipet ।

Ṣaṭkaṁ gṛiha-praveśaṁ cha tan-mānam adhunochyate ।

The general plan (lines 95-503) :

Each village is surrounded by a wall made of brick or stone, strong and high enough to prevent leaping over (lines 143, etc.). Beyond this wall there is a ditch broad and deep enough to cause a great obstruction in the event of an attack on the village (lines 143, etc.). There are generally four main gates at the middle of the four sides and as many at the four corners (lines 109-110, 144, etc.). Inside the wall there is a large street around the village. This street is generally used for circumambulation on some special occasion, daily round of the police, open-air drive and similar matters of public concern. Two other large streets are those which run from one gate to another in the middle of the wall on each side. They intersect each other at the centre of the village, where a temple or a hall is generally built for the meeting of the villagers. The village is thus divided into four main blocks, each of which is again sub-divided into many blocks by streets which are always straight from one end to the other of a main block. The

ground-floor of the houses on the main streets are used as shops. The surrounding street has footpaths and houses only on one side. These houses are mainly public buildings, such as schools, colleges, libraries, guest-houses, etc. All other streets generally have residential buildings on both sides. The houses high or low are always uniform in make (line 500, *see also* line 501). Congestion is carefully avoided. The drains or *jala-dvāra* (*lit.* water-passage) are made towards the slope of the village. Tanks and ponds are dug in all the inhabited parts and located in such quarters as can be conveniently reached by a large number of inhabitants. The temples of public worship as well as the public commons, gardens and parks are similarly located. The people of the same caste or profession are generally housed in the same quarter.

(9) The following conclusions drawn by Mr. E. B. Havell will correctly elucidate some of the points referred to above (*Ancient and Medieval Architecture of India*, pp. 9, 13, 12) :

‘The experience of many generations had proved that they (plans of villages) were the best for purposes of defence, and gave the most healthy, pleasant and practical layout for an Indian village or town. The easterly axis of the plan ensured that the principal streets were purified by the rays of the sun sweeping through them from morning till evening : while the intersection of main streets by shorter ones running north and south provided a perfect circulation of air and the utmost benefit of the cool breezes.’

‘The *Mānasāra* recognizes forty different classes of villages and towns according to the extent of the lands owned by them : commencing with a village-unit which was 500 *daṇḍas*, or 4,000 feet square, so that the extent of the largest cities would be 20,000 *daṇḍas* or about 30 English miles square. Of this area about one-third was devoted to building space, and the rest to the agricultural lands owned by the community. . . . In the description of Ayodhyā given in the *Rāmāyaṇa* (*see* under NAGARA), the proportion between its breadth and length is as one is to four. Pāṭaliputra was about 9 miles in length and 1½ miles in breadth. Hindu Gaur was also a long rectangle, one of the long sides generally faced a lake or river, an arrangement which provided bathing facilities for all the inhabitants and obviated the necessity of building defensive works all round.’

‘The *Mānasāra* gives the maximum width of the main village-streets as 5 *daṇḍas* ( a *daṇḍa*, rod or pole=8 feet). The others varied in width from 1 to 5 *daṇḍas*. The size of a single cottage was reckoned as being 24 feet by 16 feet to 40 feet by 32 feet. They were generally grouped together by fours, so as to form an inner square or quadrangle. The magic of the square depends on the fact that it afforded the best protection for the cattle of the joint household when they were driven in from pastures every evening.’

(10) 'Of stone-built walls, such as ancient Indian fortified village or town possessed, there is an extant example older than the sixth century B. C. in the hill-fortress of Giribraja, near the modern Rajgir, said to have been planned by a master-builder called Mahā-govinda.'—(Rhys Davids, *Buddhist India*, p. 37.)

(11) Grāma-nagara-kheḍa-karvvaḍa-maḍamba-droṇa-mukha-paṭṭanaṁ galimdam aneka-māṭa-kūṭa-prāsāda-devāyatanāni galiḍampppuva-agrahāra pattanamgalimdam atisayav-appa. . . .

'(At Teridala, a merchant-town situated in the centre and the first in importance among the twelve (towns) in the glorious Kundi Three Thousand, adorned, with)—villages, towns, hamlets, sea-girt towns, and chief cities, with elegant mansions, palaces and temples, and with shining agrahāra-towns in the country of Kuntala. . . .'

(Old Kanarese Inscript. at Terdal, line 58, *Ind. Ant.*, Vol. xiv, pp. 19, 25.)

(12) 'With myriads of people, practices of virtue, agreeable occupations, streams of the (nine) sentiments, pleasure-gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring festivals, ghaṭikā-sthānas (religious centres), the supports of dharmma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus faces of beautiful women fair as the moon—(Grāma-nagara-kheḍa-kharvvaṇa-maḍamba-droṇa-mukha-pura-pattana-rājadhāni)—on whatever side one looked, in these nine forms did the Kuntala-deśa shine.' (It should be noticed, that the passage within brackets is almost identical with the corresponding passage in quotation no. 11 above.)

(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 197, Transl., p. 124, para. 1, last seven lines; Roman Text, p. 214, line 27 f.)

GRĀMA-GARBHA (*see* under GARBHA-NYĀSA)—The foundation of a village.

GRĀMA-MĀRGA—The village-road (*see* details under GRĀMA).

Virṅad-dhanur grāma-mārgaḥ simā-mārgo daśaiva tu |

(*Brahmaṇḍ.-Purāṇa*, Part 1, 2nd anuśaṅga-pāda, Chap. vii, v. 112.)

*See* further details under GRĀMA and NAGARA.

GRĀMA-LAKSHAṆA—The description of the village.

(*M.*, ix; *see* under GRĀMA.)

GRĀMA-VINYĀSA (*see* GRĀMA)—The arrangement of laying-out of the village.

**GRĀHA**—A crocodile, a shark, an architectural and sculptural ornament.

A kind of mukha-bhadra or front porch, hall, or tabernacle.

(*M.*, xviii, 302, etc.)

An ornament of the arch :

Grāha-kinnara-saṃyuktam ।

Grāha-kinnara-bhūshitam ।

Grāha-puchchhādi-sarveshām svarṇa-ratnena bandhayet ।

Grāhāntām sarva-ratnāis cha puritam śreṇi-saṃyutam ।

(*M.*, xlvi, 53, 56, 57, 60.)

**GRĀHA-KUṆḌALA**—The crocodile-shaped ear-ring for an image.

*Cf.* Grāha-kuṇḍala-bhūshaṇam ।—(*M.*, lrv, 8.)

Anyathā sarva-śaktinām grāha-kuṇḍala-bhūshinim ।—(*M.*, lrv, 168.)

**GRIVA** (*see* ΚΑΥΤΗΑ)—The neck, the dado ; as a member of the pillar it comprises vedikā (altar), grīva (dado proper), and bhūshaṇa (ornament).—(*M.*, xv, 105-107)

**GRIVA-BHŪSHAṆA**—The ornament of the neck, a part of the pillar. It comprises uttara (fillet), vājana (fillet), gala (dado), and vājana (fillet).—(*M.*, xv, 111-113.)

**GRAIVEYAKA**—A necklace for an image.

Sapta-svarṇa-nishka-kalitām graiveyakam kāntimat—‘ charming necklace made of seven nishkas of gold.’—(Four Insc. at Śrīkurmam, no. D, line 6, *Ep. Ind.*, Vol. v, p. 37.)

## GH

**GHATA**—A pot, jar, pitcher, same as kumbha of the column (*see* STAMBHA), the torus (*see* Gwilt, *Encycl.* fig. 870), a type of building, a carving on the door.

*Cf.* Stambham vibhajya navadhā vahanam bhāgo ghaṭo'sya bhāgo'nyah ।  
(*Bṛihat-Saṃhitā*, lvi, 29.)

Dr. Kern's rendering by 'base' seems rather doubtful.—(*J.R.A.S.*, N.S., Vol. vi, p. 285.)

(1) A type of building which is shaped like a water jar (kalāśa) and is 8 cubits wide.—(*Bṛihat-Saṃhitā*, lvi, 26, *J.R.A.S.*, N.S., Vol. vi, p. 319, *see* under PRĀSĀDA.)

A jar-shaped carving (on the doorframe) :

Sesham maṅgalya-vihagaiḥ śrī-vṛiksha-svastika-ghataiḥ ।

Mithunaiḥ patra-vallibhiḥ pramathaiś chopasobhayet ।।

(*Ibid.*, lvi, 15.)

A type of building :

(2) *Matsya-Purāna* (Chap. CCLXIX, vv. 37, 49, 53 ; see under PRĀSĀDA.)

(3) *Bhaviṣṭya-Purāna* (Chap. CXXX, v. 33 ; see under PRĀSĀDA.)

(4) *Mānasāra* (XLII. 15-18) :

Shaṭ-saptā-hṭāṅgulaṁ vāpi śilā-stambhaṁ viśālakam ।

Vṛittāṁ vā chatur-a'raṁ vā aṣṭāśraṁ shoḍaśāśrakam ।

Pāda-tuṅge'shṭa-bhāge tu trīṁśenordhvaṁ alaṅkṛitam ।

Bodhikam mushṭi-bandhaṁ cha phalakā-tāṭikā-ghaṭam ।

(See further context under ŚILĀ-STAMBHA.)

GHATTA (see SOPĀNA)—A flight of steps.

Śri-vat-a-rāja-ghaṭṭo'yaṁ nūnaṁ tenātra kāritaḥ ।

Brahmaṇḍam ujjalaṁ kirtim ārohayitum ātmanaḥ ॥

'He indeed caused this flight of steps to be built here, of the illustrious Vatsa-rāja, in order to make his bright fame ascend up into the universe.'

(Chandella Inscrip. no. B, Deogaḍh Rock  
Inscrip. of Kirtivarman, v. 7, *Ind.  
Ant.*, Vol. xviii, pp. 238, 239.)

Cf. Ghāt—(1) A flight of steps leading to water, (2) a mountain pass, (3) a ferry.'

[Vincent Smith's *Gloss. (loc. cit.)* to Cunningham's  
*Arch. Surv. Reports.*]

GHATIKĀLAYA—The building where the water-clock is placed.

(Cintra Prasasti of the reign of *Sarangadeva*,  
v. 40, *Ep. Ind.*, Vol. 1, pp. 284, 276.)

GHATIKĀ-STHĀNA—The place or building where a clock is placed, a religious centre, an institution, a hermitage, a temple.

(1) Uṭṭaṅkoktyā sāma-vede vyādhataṁ ghaṭikāśramam—'in accordance with Uṭṭaṅka's saying in the *Sāma-veda*, the *ghaṭikā* (hermitage) was established.' (It should be noted that this inscription is on the door of the Ammanavaragudi in the enclosure of the same Janārdana-svāmi temple.)

(*Ep. Carnat.*, Vol. v, Part 1, Chamunaraya-  
patna Taluq, no. 178, Roman Text,  
p. 462, Transl., p. 202.)

(2) 'Possessor of thirty-two velama, eighteen cities, sixty-four yoga-plṭhas, and sixty-four *ghaṭikā-sthānas*(?)'—(*Ep. Carnat.*, Vol. vi, Shikār-  
pur Taluq, no. 94 ; Transl., p. 61, line 6 f., Roman Text, p. 114, line 4 f.)

(3) 'He set out for the city of the Pallava Kings, together with his guru Virasarmma, desiring to be proficient in pravachana, entered

into all *religious centres* (ghaṭikā-sthāna) and (so) became a quick (or ready) debator (or deputant).’—(*Ep. Carnat.*, Vol. v, Part I, Chāmunarayapātna Taluq, no. 176, Transl., p. 113, para. last, but one.)

(4) ‘ With myriads of people, practices of virtue, agreeable occupations, streams of the (nine) sentiments, pleasure-gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring festivals. *ghaṭika-sthānas*(?), the supports of dharma and mines of enjoyment . . . did the Kuntala-deśa shine.’—(*Ibid.*, no. 197, Transl., p. 127, first para. last seven lines; Roman Text, p. 214, line 30.)

(5) Mr. Rice is not certain about the accurate meaning of the term. He refers to quotations nos. 1, 2, 3, 4, and seems to think that it means some kind of institution. He says that Mr. Pathak has translated it as ‘ religious centre ’ (*Ind. Ant.*, xiv 34). Dr. Kielhorn has published an article on the subject (Gottingen Nachrichten for 1900, Heft 3) with special reference to the use of the word in this inscription (quotation no. 3 above) and gives quotations in support of his view that it means something like *brahma-puri*.’ It is to be noted that Mr. Rice’s reference to *Ind. Ant.* is not accurate, see below.

(*Ep. Carnat.*, Vol. vii, Introduct., p. 8, note 2.)

(6) Dvā-trimsat tu velāvuramum asṭādaśa-paṭṭanamum bhāsa śaṭi-yoga-piṭhamum aruvattanalku-ghaṭika-sthānamum —(the people of the) ‘ thirty-two seaside towns, the 18 towns, 62 seats of contemplation, and 64 *religious centres* ’ (together with . . . held a convocation there).

(Old Kanarese Inscrip. at Terdāl, line 60

*Ind. Ant.*, Vol. xiv, pp. 19, 25.

GHANA—Solid, a kind of measurement, thickness.

Eka-hasta-samaṁ dīrghaṁ tad-ekāṅgula-viṣṭitam ।

Ghanam ardhāṅgulaṁ proktaṁ hasta-niśchitya yojayet ।

(*M.*, II, 64-65; see also XXXIII, 311-313, 593-595, LX, 17-18; LXII, 17, under AGHANA.)

GHANA-MĀNA (see AGHANA-MĀNA)—The measurement by the exterior of a structure.

(*M.*, XXXIII, 291-330, and 331-335, see under AGHANA-MĀNA.)

Cf. Yogādi-ghana-mānaṁ cha kṛtvā bāhye navāṁśakam ।

(*M.*, XXXIX, 64.)

GHĀṬ (-ṬA) (cf. TIRTHA)—A landing, a flight of steps leading to water, a mountain pass, a ferry.

(See Vincent Smith’s *Gloss. to Cunningham’s Arch. Surv. Reports*, loc. cit.)



## GHĀṬANA—A bolt.

Yogyam kavāṭa-yugmam śre-hṭham madhyam cha harmyake |  
Antar vāpi bahir vāpi ghāṭanam kila-samhyutam |

(*M.*, xix, 152-153.)

GHRĪTA-VĀRI (*cf.* PĪṬHA)—The water-pot, a part of the Pīṭha or the pedestal of the Phallus.

Pīṭhasyordhve viśāle tu chatuṣṭi-pañcha-śaḍ-amśake |  
Ekāmśena cha śeṣam tu ghṛita-vāri-viśālakam |

(*M.*, liii, 24-52.)

## CH

CHAKRA—The disc of Viṣṇu, a type of buildings.

(*See Mānasāra* LXV, 145 ; LIV, 147 ; XXXII, 125, etc.)

A class of octangular buildings :

- (1) *Agni-Purāṇa* (Chap. XLVII, vv. 20-21 ; *see* under PRĀSĀDA).
- (2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 31-32 ; *see* under PRĀSĀDA).

In connexion with the foundations :

Madhye chakrām tu bhaumena bhājanāntām vinikshipet |

(*M.*, xii, 137 ; *see also* 158.)

CHAKRA-KĀNTA —A class of the eleven-storeyed buildings.

(*M.*, xxxix, 11-15 ; *see* under PRĀSĀDA.)

CHAṆḌITA—A type of storeyed building, a site-plan.

A class of the nine-storeyed buildings (*M.*, xxvii, 11-12 ; *see* under PRĀSĀDA).

A site-plan in which the whole area is divided into 64 equal squares (*M.*, vii, 9, *see*, for details, 77-110, *cf.* also viii. 39 ; ix. 166 ; in connexion with the village ; xv. 390, etc.).

CHATUR-ĀŚRA (*see* CHATUSHKOṆA)—A type of building which is quadrangular in plan, has one storey and five cupolas.

(1) *Bṛihat-Saṃhitā* (LVI 28, and *Kāśyapa*, *J.R.A.S.*, N. S., Vol. vi, p. 320, note 1).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 28, 53 ; *see* under PRĀSĀDA).

(3) *Bhavishya-Purāṇa* (Chap. CXXX, v. 25 ; *see* under PRĀSĀDA).

CHATUR-MUKHA (*see* under GRĀMA and ŚĀLĀ)—Literally four-faced, a class of villages, a type of building, a kind of hall.

A class of the four-storeyed buildings (*M.*, xxii 12-23 ; *see* under PRĀSĀDA

A class of villages (*M.*, IX, 3, cf. the description in detail, 490-507; see also XIX, 212).

A class of śālās (hall, mansion, pavilion, etc. *M.*, XXXV, 3-4; see under ŚĀLĀ).

Cf. Sarvatobhadra-chatur-mukha-ratna-traya-rūpa-tri-bhuvana-tilaka-Jina-chaityālayavanu—the Tribhuvana-tilaka-Jina-chaityālaya (temple, which is) auspicious on every side (sarvatobhadra), has four faces (chaturmukha), and is the embodiment of the three jewels.

The temple has four doors each of which opens on three identical stone images of the Tirthamkaras Ara, Malli and Munisuvrata.

(Karkala Insc. of Bhairava II, line 17,  
*Ep. Ind.*, Vol. VII, pp. 132, 135, notes 11,  
12, and p. 134, note 3.)

CHATUR-VARGA—A set of four mouldings of the door, consisting of vedikā (platform), pāda (pillar), śiraḥ (spire) and śikhā (finial).

(*M.*, XXXIX, 154-156, see also XXXIII, 591.)

CHATUR-VARGA-KĀNTAKA—A set of four architectural members.

(*M.*, XXXIII, 531.)

CHATUSH-KOṆA—Literally four-cornered, a type of quadrangular buildings (see under CHATUR-AŚRA).

(1) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 25; see under PRĀSĀDA).

(2) *Bṛihat-Saṃhitā* (Chap. LVI, 18, 28; see under PRĀSĀDA).

CHATUḤ-ŚĀLĀ—A house with four śālās (rooms or halls), an open or closed quadrangle surrounded by buildings on all four sides, an enclosed courtyard, a mansion with four rows of buildings.

(*M.*, XXXV, 35.)

Evam chatur-griham proktaṃ śālāyām kalpayen na vā ॥

Chatuḥ-śālā-pradeśe tu tad-adho-bhūmir uchyate ॥

Madhya-maṇḍapa-samyuktaṃ chatur-griham udāhṛitaṃ ॥

(*Kārikāgama*, XXXV, 5-7, 70, 93.)

Chatuḥ-śāla-gra(gṛi) haṃ śreshtaṃ tri-śālaṃ madhyamaṃ bhavet ।

Dvi-śālam adhamaṃ proktaṃ hīnaṃ syād eka-śālakam ॥

(*Ibid.*, XXV, 13, 14.)

Śālaikā daṇḍa khaṇḍābhā dvi-śālā tad-dvayena tu ।

Tat-trayena tri-śālā syāt chatuḥ-śālā chatuṣṭayā ॥

Saptabhiḥ sapta-śālā syād evam anyam । । kīrītaḥ(-m) ॥

(*Ibid.*, XXXV, 34, 35.)

Shaḍ-bhāgena mahā-śilā chatuḥ-śilā tri-bhāgikāṃ ।  
Madhya-śilā (-ir) yugāntēna bhadrā-śilā cha madhyame ।  
Anuśilā cha madhye cha chaika-bhāgena bhadrakam ।

(*M.*, xxvi, 17-19.)

Chatuḥ-śilām—(*Amarakōsha*, II, ii, 6).

CHATUḤ-ŚILĀ—Literally four pieces of stone, a pedestal.

Benasyaika(-kā)-śilā proktaḥ liṅgānāḥ tach-chatuḥ-śilā ।

(*M.*, LI, 177.)

CHATUḤ-STALĀ—The fourth storey, its general description (*M.*, XII, 89 106), the eight classes (*ibid.*, 1-88).

(*See* under PRĀSĀDA.)

CHANDRA-KĀNTĀ—A site-plan in which the whole area is divided into 1,024 equal squares (*M.*, VII, 50; *see* under PADAVINYĀSA), a class of ten-storeyed buildings (*M.*, XXVIII, 6-8; *see* under PRĀSĀDA), one of the five Indian orders (*Suprabhōdāgama*, XXXI, 65, 66; *see* under STAMBHA).

CHANDRA-ŚĀLĀ (-LIKĀ)—A room at the top of a house, a kind of windows, sky-lights, dormer-windows.

(1) Tri-chandra-śālā bhaved valabhī—the roof must have three dormer-windows.—(*Bṛihat-Saḥitā*, LVI, 25, 27, *J.R.A.S.*, N. S., Vol. VI, pp. 319, 320.)

(2) Pārsvayos chandra-śāle'sya uchchhrāyo bhūmikā-dvayam ।

(*Matsya-Purāṇa*, Chap. CCLXX, v. 38;  
*see also* vv. 40, 41, 42, 46.)

(3) Chandra-śālānvitā kāryyā bheri-śikhara-samnyutā ॥

(*Garuḍa-Purāṇa*, Chap. XLVII, v. 44.)

(4) Tri-chandra-śālā bhaved valabhī ॥

Babu-ruchira-chandra-śālāḥ shaḍ-vimśad-bhāga-bhūmīś cha ।

(*Bhaviṣya-Purāṇa*, Chap. CXXX, vv. 32, 34.)

(5) Hasti-prishṭha-yuktam chandra-śālābhīś cha samanvitam (vim-  
ānāṃ) ॥

(*Kārikāgama*, I, 92.)

(6) Kuṭṭimo'stri nibaddhā bhūś chandra-śālā śirogriham ।

Commentary : chandrādi-dvayam grihoparitana-grihasya uparam ādi-  
aṭṭāl ityādi prasiddhasya ।

(*Amarakōsha*, II, 5, 8.)

CHARAṆĀ—A synonym of the pillar (*M.*, XV, 4), a foot (*M.*, LVIII, 3, etc.).

(*See* under STAMBHA.)

**CHARA-VĀSTU**—A movable structure, a temporary building.

Grāmādināṁ nagarādināṁ pura-pattana-kharvaṭe |  
Koshṭha-kolādi-sarveśhāṁ garbha-sthānam ihochyate |  
Sthira-vāstu-kukshi-deśe tu chara-vāstu tathāpi cha |

(*M.*, XII, 168-170.)

**CHARUKA** (*see* RUCHAKA)—A type of building.

Nispaṭaṁ charukaṁ vidyāt sarvatraiva viśeshataḥ |

(*Kārikāgama*, XXXV, 91 ; *see also* 88-90,  
under NANDYĀVARTA.)

**CHALA-DANḌA**—The movable lamp-post.

Chatur-aśraṁ vā tad aśṭāgraṁ vṛittarṁ vā chala-danḍakam |  
Sthira-danḍa-viśāle tu mānāngula-vaśān nayet |

(*M.*, I, 84-85.)

**CHALA-SOPĀNA**—The movable staircase, a ladder.

(*M.*, XXX, 130 ; *see* under SOPĀNA.)

**CHĀRA**—A platform.

Vṛishabhasya lakṣhaṇaṁ samyag vakshyate'dhunā |  
Vimāne maṇḍape vāpi chāropari parinyaset |

(*M.*, LXII, 1, 3.)

**CHĀRU-BANDHA**—A type of base of the pillar.

Tato jāngala-bhumis ched adhiśṭhānaṁ prakalpayet |  
Tach chātur-vidham ākhyātam iha śāstre viśeshataḥ ||  
Padma-bandhaṁ chāru-bandhaṁ pāda-bandham pratikramam ||

(*Suprabhedāgama*, XXXI, 16-17.)

**CHĀRYĀ**—A road which is 8 cubits broad.

Aśṭa-hasta-pramāṇa-mārgaḥ |

(*See Kauṣīliya-Artha-śāstra*, under PĀTHA.)

**CHITRA**—An image, a painting, a marble, glass, high or full relief.

A painting. (*M.* XXXV, 402, etc.).

A kind of marble or glass (*M.*, LVI, 15, etc.).

A kind of octangular building (*Agni-Purāṇa*, Chap. CIV vv. 20-21 ;  
*see* under PRĀSĀDA).

A full relief or image whose whole body is fully shown :

Sarvāṅgaṁ drīśyamānaṁ yat chitram evaṁ prakathyate |

(*M.*, I, 1-9.)

*See Suprabhedāgama* (XXXIV, 3) under ABHĪṢA.

**CHITRA-KALPA**—A head-gear, an ornament for an image.

Patra-kalpaṃ chitra-kalpaṃ ratna-ka'paṃ cha mīritam ।  
Eshāṃ chatur-vidhaṃ proktaṃ kuryād ābharapaṃ budhaḥ ।

(*M.*, L, 3-4)

**CHITRA-KARṆA**—A kind of pillar.

(*M.*, xv, 30 ; see under STAMBHA.)

**CHITRA-TORAṆA** (see TORAṆA)—A type of arches, an ornamental arch employed in gods' temples and kings' palaces as well as in their thrones, decorated with the images of demi-gods, demons, lions, leopards, and geese.

Tad eva (like the Makara-toraṇa) pārvayor madhyam pūritam  
cha dvayor (makarayor) api ।

Nakra-tuṅḍa-prāg-grahaiś cha tayor āśya-vinirgataiḥ ॥  
Vidyādharaś cha bhūtaiś cha śimhe(-hairi)va vyāla-hamsakair api ।

Bāle srag-daṇḍakair anyair maṇi-bandhair vichitritam ॥

Chitra-toraṇam etat syād devānām bhū-bhṛitām varam ।

Ihāsu pratimādyāsu pādāḥ sarvāṅga-śobhitāḥ ॥

Chatur-asrāśṭa-vṛittābhā kumbha-maṇḍyā saṃyutāḥ ।

Pottikā-sahitā vā syur viyuktā vā prakirtitāḥ ॥

Utsandhād avalambam tu kuryān makara-prīṣṭhakam ॥

(*Kāmkāgama*, LV, 66-70.)

**CHITRA-PAṬṬA**—A moulding of the pillar, an ornamented band.

(*M.*, xv, 34 ; see the lists of mouldings  
under ADHISHṬHĀNA and UPAPṬṬA.)

**CHITRA-SKAMBHA**—A column with all characteristics of the padma-kānta (see below) except the āsana (seat).

(*M.*, xv, 39 ; see under STAMBHA.)

**CHITRĀGĀRA**—A picture gallery.

(Rhys David's *Buddhist Sutta*, p. 68.)

**CHITRĀBHĀSA** (see ĀBHĀSA) —A kind of marble, glass, an image.

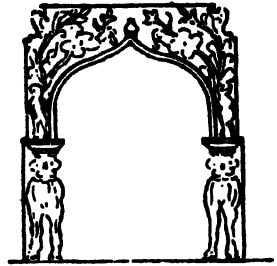
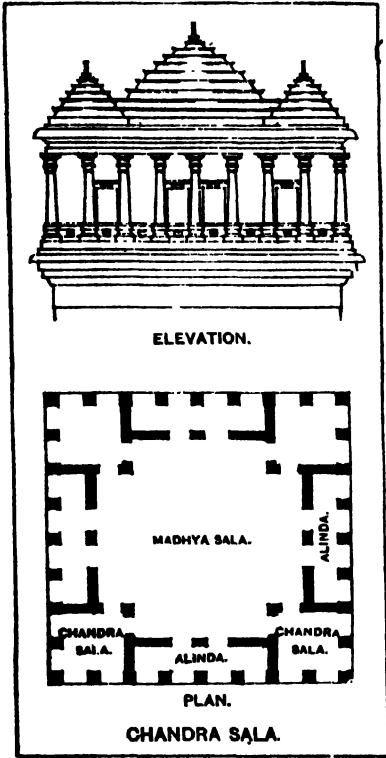
(*M.*, LVI, 15 ; see under ĀBHĀSA.)

Śilodhavanām vi(bi)mbānām chitrābhāsasya vā punaḥ ।

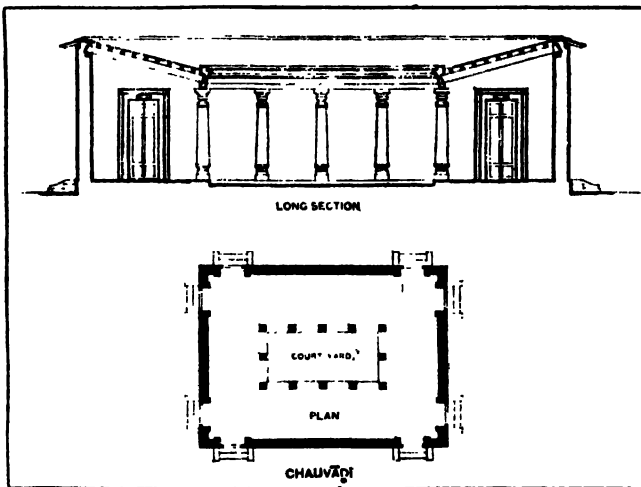
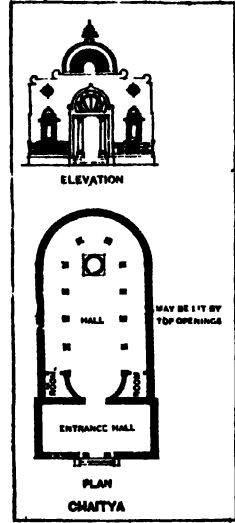
Jalādhi-vāsanam proktaṃ vṛishendrasya prakirtitam ॥

(*Liṅga-Purāṇa*, Part II, Uttara-bhāga, Chap. XLVIII, v. 43.)

An image painted on a paṭa (a piece of cloth, a tablet, a plate) or wall (*Suprabhedāgama*, xxxiv 4 ; see under ĀBHĀSA).



CHITRA-TORANA



;

**CHITRĀRDHA**—A half relief or an image half of whose body is shown.

(*Suprabhadgama*, xxxiv, 4, *see* under **ĀBHĪSA.**)

**CHULLĪ**—A building lacking a southern hall, an apartment of three divisions, one looking north, another east, and the third west.

Yāmyā-hīnaṁ chullī tri-śālakāṁ vitta-nāśa-karam etat |

(*Dyihat-Samhitā*, Lxi. 38, *J. R. A. S., N. S., Vol. vi, p. 282.*)

**CHŪLIKĀ (CHŪLI)**—A tower, a head ornament, the capital the top.

(1) Antar vapra(h) bahir bhittis cheshtaṁ dīrghaṁ cha chūlikā |

(*M.*, ix, 362.)

In connexion with the joinery :

Etat suvṛitta-pādānām tri-karṇaṁ vakshyate'dhunā |

Tad eva chā tri-karṇaṁ syāt tri-chūlikam eva cha |

(*M.*, xvii, 104-105.)

In connexion with the gopura or gate-house.—(*M.*, xxxiii, 313.)

In connexion with the maṇḍapa (pavilion) :

Tad (prastara)-ūrdhve maṇḍapānām cha chūlikā-karṇa-harmyakam |

(*M.*, xxxiv, 1.)

An ornament for the head :

Lamba-hāram api chūlikādibhiḥ |

(*M.*, I, 301.)

(2) Stambhasya parikshepāsh shaḍ-āyāmā dvi-guṇo nikhātaḥ chūli-kāyās chatur-bhāgaḥ— in fixing a pillar 6 parts are to form its height on the floor, twice as much (12 parts) to be entered into the ground, and one-fourth for its capital.—(*Kauṣṭhīya-Artha-śāstra*, Chap. xxv p. 53.)

(3) Trichūli vaiśya-sūdrāṇām pañcha sapta mahābhritām |

Brāhmaṇānām tathaiva syur ekādaśa tu vedikāḥ ||

Pāshaṇḍāsraminām yugma-saṁkhyā chūli vidhīyate ||

(*Kāmikāgama*, xxxv, 160, 161.)

The synonyms of chūlikā :

St(h)ūpikā cha ghaṭaḥ kilo sūlakaḥ st(h)ūpir ity-api |

Sikhā st(h)ūpir iti khyātā chūlikā cha dvijottamāḥ ||

(*Ibid.*, lv, 207.)

**CHŪLI-HARMYA** (*cf.* **CHULLĪ**)—A tower, a room at the top of a house, an attic room, the garret.

(1) Prastarordhve viśesho'sti chūli-harmyādi-maṇḍitam |

(*M.*, xxxiv, 499.)



(2) Ekāneca-talāntam syāt chūli-harmyādi-maṇḍitam ।

(M., xxxv, 37, etc.)

(3) Chūli-harmya-yutam chorddhe chāgra-dvāra-śamanvitam ॥

Soroddhva-vāstavya-saṁyuktam chūliharmya-yutam tu vā ॥

Sā bhūmir maṇḍapāgāra-chūli-harmya-vibhūṣhitā ॥

Athavā maṇḍaporddhe tu chūli-harmya-vibhūṣhitam ।

Talādhiṣṭhāna-pādebhyaḥ kirnchid-ūna-pramāṇakam ॥

(Kāmikāgama, xxxv, 63, 65, 71, 114.)

(4) Prākāra-madhye kṛtvā vāpīṁ pushkariṇīṁ dvāraṁ chatuṣ-śālam adhyardhāntarāṅkaraṁ kumāri-puraṁ muṇḍa-harmyaṁ dvi-talaṁ muṇḍaka-dvāraṁ bhūmi-dravya-vaśena vā tri-bhāgādhikāyāmāḥ bhāṇḍa-vāhiniḥ kulyāḥ kārayet ।

‘In the centre of the parapets, there shall be constructed a deep lotus pool ; a rectangular building of four compartments, one within the other, an abode of the goddess Kumāri (?) having its external area  $1\frac{1}{2}$  times as broad as that of its innermost room ; a circular building with an archway ; and in accordance with available space and materials, there shall also be constructed canals (?) to hold weapons and three times as long as broad.’

Pandit Shāma Śastri’s translation, as given above, does not seem to have resulted from a happy construction of the text. ‘Kumaripura,’ *muṇḍa-harmya*’ and ‘dvi-tala’ (two-storeyed) ‘muṇḍaka-dvāra’ bear apparently some technical meanings which are not well expressed in the translation.

‘Muṇḍa-harmya’ might be identical with ‘chūli-harmya’ inasmuch as *muṇḍa*’ and ‘chūli’ are almost synonyms, both meaning top or summit (see KUMĀRI-PURA).

(Kauṭīliya-Artha-śāstra, Chap. xxiv, p. 54.)

CHAITYA (CHAITYĀLAYA)—Primarily a heap or tumulus, implies also a place of sacrifice or religious worship, an altar, derived from ‘chitā’, a heap, an assemblage, etc. ; a monumental tomb, a sanctuary, a monastery, a shrine, a temple, the church-like Buddhist assembly halls. ‘All structures of the nature of sanctuaries are chaityas, so that sacred trees, statues, religious inscriptions and sacred places come also under this general name.’

(1) Tasminn Iruga-daṇḍeśa-pure chāru-śilāmayam ।

Śri-Kunṭhu-Jinanāthasya chaityālayam achikarat ॥

In this city the general Iruga caused to be built of fine stones a temple (chaityālaya) of the blessed Kunṭhu, the Lord of Jinas.’

(Vijayanagara Insc. of Harihara, II, v. 28, H.S.I.I., Vol. I, no. 152, pp. 158, 160.)

(2) Pārśvanāthasya Arhataḥ śilāmayam chaityālayam achīkarat |  
 'Caused a temple (chaityālaya) of stone to be built to the Arhat Pārśvanātha.'

Cf. Bhavya-pāritosha-hetum śilāmayam setum akhiladharmmasya |  
 Chaityāgāram achīkarat ādharāṇi-dyumaṇi-hima-kara-sthai-  
 ryyam ||

(Vijayanagara Insc. of Devaraja II, v. 20,  
*H.S.I.I.*, no. 153, pp. 162, 164, 166.)

(3) Śrī-yogasvāmināḥ . . . eśhā Malukaya-chaityā—'this is the  
 Malukaya temple of the god Yoga Svāmin.'—(Sanskrit and old Kanarese  
 Insc. no. 170, Asni Insc. of Mahipala, line 7 f.; *Ind. Ant.*, Vol. xvi;  
 p. 175, note 12.)

(4) Abode chātiyam— The chaitya on (Mount) Arbuda.'

Miga-sakadakaṁ chetaya— The chaitya which gladdens the an-  
 telopes.'—(Bharaut Insc. nos. 5, 11, *Ind. Ant.*, Vol. xxi, pp. 227, 228.)

(5) Kāyastha Palhadeva (or Palhaja) . . . built a tank and a  
 temple (chaitya) of Śambhu (Śiva), and also laid out a garden.'—(Narawar  
 Stone Insc. of Ganapati of Nalapura, vv. 22-25, *Ind. Ant.*, Vol. xxxi, p. 81.)

(6) 'Veśāli is beautiful and beautiful are the Udena, Gotamaka, Sat-  
 tambaka, Bahuputta, Sārandada, and Chāpāla chetiyas.' (*Digha-Nikāya*,  
 11, p. 102, *Udena*, vi, 1.)

In speaking of these shrines we are not to think of the venerated  
 trees only, apart from some structure of art and architecture, an enclosed  
 terrace at the foot, and, in some instances, a temple near by, the trees them-  
 selves standing as natural landmarks of the sacred sites.'—(Barua, *J.I.R.I.*,  
 p. 126.)

(7) Boppanāpara-nāmānkāś chaityālayam achīkarat—'he, having  
 another name Boppana, had the Jaina temple made.'—(*Ep. Carnat.*, Vol. II,  
 no. 66; Roman Text, p. 60; Transl., p. 149.)

(8) They caused to be erected the lofty chaityālaya called Trijagan-  
 maṅgalam, and set up (the god) Māṇikya-deva; also caused to be repaired  
 the Paramēvara-chaityālaya which the blessed ones (Jains) had formerly  
 crected in Hāllanahālli and granted lands to provide for the offerings at  
 the two chaityālayas.'—(*Ep. Carnat.*, Vol. III, Nanjangūd Taluq; no. 64;  
 Transl., pp. 101, 102; Roman Text, p. 193.)

(9) Caused to be set up afresh the image of the Tīrtha(n)-kara Chandra-  
 prabha, the god Vijaya and the goddess Jvālīnī, in the chaityālaya at  
 Kelasūr, which he had caused to be repaired and painted anew.'—*Ep.*  
*Carnat.*, Vol. IV, Gundlupet Taluq, no. 18; Transl., p. 38.)

(10) Aneka-ratna-khachita-ruchira-maṇi-kalāśa-kalita-kūṣa-koṣi-ghaṭitam  
 apy-uttuṅga-chaityālayamaṁ—'having erected . . . a lofty chaityālaya,

with kalāsas or towers surmounted by rounded pinnacles set with all manner of jewels.—(*Ep. Carnat.*, Vol. VI, Muḍgere Taluq, no. 22 ; Roman Text, p. 148, line 12 ; Transl., p. 63, para. 2.)

(11) 'Chaityas or assembly halls—These in Buddhist art correspond in every respect with the churches of the Christian religion. Their plans, the position of the altar or relic-casket, the aisles and other peculiarities are the same in both, and their uses are identical in so far as the ritual forms of the one religion resemble those of the other.'—(Fergusson, *Hist. of Ind. and East. Arch.*, pp. 50-51.)

For architectural details of the existing (Buddhist) chaitya-halls see Fergusson :

Plans of Chaity Hall at Sanchi (p. 105, fig. 41).

Lomas Rishi Cave (p. 109, figs. 43, 44).

Plan and Elevation of Chaitya Cave at Bhaja (pp. 110-111, figs. 45-47.)

Plan of Cave at Nasik (p. 115, fig. 49).

Plan, section, elevation and views of Cave at Karle (pp. 117-118, 120, figs. 54, 53, 55, 56).

Cross Section and View of Caves at Ajunta (pp. 123-125, figs. 57, 58, 59 and 60).

Cave at Ellora (p. 128, fig. 63).

Plan of Cave at Dhumnar (p. 131, fig. 65).

(12) See Buddhist cave-temples (*Arch. Surv.*, New Imp. Series, Vol. IV, the chaitya-cave at Kondane, photo, facing the title page).

(13) 'The word, chaitya, is derived from the root, chin, chayane, to collect, and the commentary on Amara, called the Gurubāla-prabodhikā, says that it denotes a building, because it is the result of the collection, or putting together of stones (chiyate pāshānādinā chaityam). But it will be seen that in some of the above quotations the word is used in close connexion with yūpa, the sacrificial post. The ceremony performed at the end of the great sacrifices is called chayana, i.e., the collection of the sacred ashes and other relics and the grouping them into the form of a tortoise, or of the bird Garutmat as in the sacrifice called Garuḍa-chayana, chita being the sacred things thus collected, it appears that the building constructed to preserve them for the purpose of worship was called chaitya or chaitya.'

'This place of worship, from its connexion with Vedic rites, is probably of older date than the devāyatanas.'

'It is, therefore, clear that the *Rāmāyana* alludes to the Brāhmanical and not to the Bauddha Chaitya. The commentators are not consistent in saying that chaitya means a Brāhmanical building

when it is mentioned in connexion with Rāma and his country, a Buddhist building when mentioned in connexion with the enemy's country, forgetting that Vālmiki has peopled Lankā with Vedic students and sacrificers without ever mentioning the Buddhists.'

'No. 7 (*Rāmāyaṇa*, v. 12, 17) mentions chaitya trees so called probably because instead of constructing a building it was also the custom to plant trees with revetment round their stems where the chayana ceremony was performed. In course of time, however, all revetted trees began to be called chaitya trees; and to such trees, which are generally found in all villages Kālidāsa evidently alludes when describing the Daśārṇa country in his *Meghadūta*. Mallinātha quotes Viśva (chaityam āyatane Buddhavandye choddeśapādape).'

The ceremony performed after the burning of dead bodies is *saṁchayana*, in which, after collecting the bones, a portion of the ashes is grouped into a human form and *baśāli* or food offered to it. I take the *smaśāna-chaitya* alluded to in no. 9, to be a monumental building erected on such spot in memory of departed kings and other great personages.'

'It may, therefore, be presumed that in accordance with custom a chaitya was built in memory of Buddha, and that his disciples began to worship and multiply it by taking his funeral relics to different parts of the country while the sacrificial chaityas of the Brāhmanas became scarce owing to the opposition made by the Bauddhas to animal sacrifices, and the Brāhmanas themselves having prohibited the *aśvamedha* for the Kaliyuga.'

'It will be seen that the *Rāmāyaṇa* mentions temple and idolatry; but these seem to be of old date in India, though not so very prevalent as at present. Stenzler's *Gautama Sūtra* (9, 66) prescribes the going round of *Devāyatana*; *griha-devatās* or household gods are mentioned (in 5, 13).'

(*Ind. Ant.*, Vol. xi, pp. 21-22.)

(14) 'Properly speaking it is not temple (chaitya-griha) but the *dagaba* inside it that is called a chaitya. In a secondary sense it is used by Jains and Buddhists, however, to denote a temple containing a chaitya, and is also applied in Buddhist books to a sacred tree as well as to a *stūpa*.'

'Hence it is closely connected in meaning with *stūpa*. Chaityas were known before Buddha's time (see *J. As. Soc. Beng.*, Vol. vii, p. 1001, cf Alwis' *Buddhism*, pp. 22, 23).' Dr. Burgess.—(*Ibid.*, pp. 20, 21, notes 1, 2.)

CHAITYA-GRIHA (see STŪPA-GRIHA)—A dome-like construction in top, supported by pillars.

(W. Geiger: *Mahāvastu*, p. 295.)

CHERIKĀ (*cf.* PANDI-CHERI)—A village, a town, a fortified capital city on the hill top and on the banks of a river or sea, flourishing and well inhabited by people of Brāhman and other castes and containing royal residence and king's palace.

A suburb town inhabited by the weavers :

Grāmādinām samīpaṃ yat sthānaṃ kubjam iti smṛitam ॥

Tad eva cherikā proktā nagarī tantuvāya-bhuḥ ॥

(*Kāmikāgma*, xx, 15, 16.)

According to the *Mānasāra*, it is a prosperous capital city connected with rivers and hills, and well fortified :

Nadyādi-kānanopetaṃ bahu-tīra-jaṇālayam ।

Rāja-mandira-saṃnyuktaṃ skandhāvāra-samanvitam ।

Pārve chānya-dvi-jātnīṃ gṛihāntaṃ cherikoditaḥ ।

(*M.*, x, 85-88.)

CHAUCHĀLĀ(-VĀḌI)—A building with four sloping roofs.

'In the tiger-face chāvaḍi (i.e. chauvaḍi) he set up images of his family gods (named).'<sup>2</sup>—(*Ep. Carnat.*, Vol. v, Part 1, Channarayapatna Taluq, no. 160 ; Transl., p. 196 ; Roman Text, p. 451.)

In East Bengal also the term is used in the same sense, but there is generally denotes straw-built houses.

## CHH

CHHAT(-T)RA(-I) (*see* SATTRA)—Free quarters in connexion with temples, finial or spire of a building.

(Fergusson, *Hist. of Indian Architecture*, Vol. 1, p. 279.)

(1) *See* Inscriptions from Northern Gujarat (no. xvii, line 6, and no. xix, line 6, *Ep. Ind.*, Vol. II, pp. 30, 31).

(2) 'And as a work of dharma, (I) wish to erect a chhatra in the presence of the god Vināyaka . . . and erecting a chhatra for daily feeding of six Brāhmins in the presence of the god Vināyaka.'<sup>3</sup>—(*Ep. Carnat.*, Vol. x, Mulbagal Taluq, no. 259 ; Transl., p. 132.)

(3) 'And (he) presented the land to Amareśvara-tīrtha-Śrīpāda, for a chhatra (perhaps by slip Mr. Rice puts in chatra, because in the text, the reading is chhatra) in connexion with this maṭha, providing for 1 yati, 4 Brāhman pilgrims, and 2 cooks altogether 7 persons, from the proceeds of cultivating the land.'

From this passage it is clear beyond doubt that 'chhatra' and 'sattra' point to the same object, namely, a building or buildings constructed in

connexion with a temple, maṭha, or chaityālaya to provide lodgings and food gratis to deserving persons.

(*Ep. Carnat.*, Vol. vi, Koppa Taluq, no. 27 ;  
Transl., p. 80, Roman Text, p. 274, para.  
2, line 5 f.)

**CHHANDA** (*see* VIMĀNA-CHHANDA)—A building, a door, a phallus.  
The temple (prāsāda) named vimāna belonging to the chhanda class.

(*Bṛihat-Saṃhitā*, lvi, 17, 22.)

A class of buildings (*Kāmikāgama*, XLV, 20).

Karṇe śālā sabhā madhye chhandam syāch chhandam eva tat ||

(*Ibid.*, I, 13 and 7.)

A type of kūṭa-koshṭha or top-room (*ibid.*, LV, 129, 123-127).

A class of buildings or top-rooms (*M.*, XI, 104-107 ; XIX, 1-5 ; XXX, 175-177 ; XXXIV, 549-552 ; *see* under ĀBHĀSA.)

A class of doors (*M.*, XXXIX, 28-35 ; *see* under ĀBHĀSA).

A type of the phallus (*M.*, LII, 49 ; *see* under ĀBHĀSA).

**CHHANDA-PRĀKĀRA**—The court or the enclosure of the chhandaclass of buildings.

(*M.*, XXXI, 24.)

**CHHANNA-VIRA**—A sculptural ornament. It passes over shoulders and hips, crossing and fastening in the middle of the breasts and the back of an image.

(*See* Rao, *Elements of Hindu Iconography*, I, XXXI,  
M. F. A. Bulletin no. 152, p. 90, and  
Coomaraswamy *F. A. O. S.* 48, 3, p.255.)

Ūrdhva-kāye cha hārādi pārsvayor bāla-lambanam |

Madhye dāma cha lambam syāch chhanna-viram iti smṛitam ||

(*M.*, I, 35-36.)

**CHHELĀ (PHELĀ)** (*see* GARBHA-MANJŪSHĀ)—The vault of the foundation-pit.

Hemākāreṇa tāmreṇa chhelām vā kārayed budhaḥ ||

Chhelotsedham tri-pādām syād apidhānasya samuchchhrayaḥ ||

Chhelā pañchāṅgulā proktā gṛihāṇām nādhikā bhavet ||

Phelā is perhaps the same as 'chhelā'

Shaḍ-aṅgula(m) pramāṇam tu chatur-vimśāṅgulāntakam |

Bhūjanasya samantāt tu sāvakāsa-samanvitam ||

Tathāśmanā cheṣṭakayā phelākārām tu garttakam ||

(*Kāmikāgama*, XXXI, named Garbha-nyāsa-  
vidhi, 6, 7, 12, 74, 75.)

JAGATA(-TI) (*cf.* JĀTI)—A moulding of the base, or of the pedestal of an idol or phallus, a class of buildings, platform over a well.

- (1) Piṭhikā-lakṣhaṇaṁ vakshye yathāvad anupūrvaśaḥ ||  
Piṭhochchhrāyaṁ yathāvach cha bhāgān shoḍa'a kārayet |  
Bhūmāvekaḥ pravishṭaḥ syāch chaturbhir jagatī matā ||  
(*Matsya-Purāṇa*, Chap. CCLXII, vv. 1-2, *see also* 4-5.)
- (2) Śikharāṇa samaṁ kāryam agre jagatī(tī)-vistaram |  
Dvi-guṇenāpi kartavyaṁ yathā-śobhānurūpataḥ ||  
(*Agni-Purāṇa*, Chap. XLII, v. 5.)  
Jagatī-vistarārddhena tri-bhāgena kvachid bhavet ||  
(*Ibid.*, Chap. CIV, v. 6.)
- (3) Pravṛitā jagatī kāryā phala-pushpa-jalānvitā ||  
(*Garuḍa-Purāṇa*, Chap. XLVII, v. 47.)
- (4) Pāda-bandha-vimāne tu gha-garbhopari nyaset |  
Pratibandha-vimāne tu vṛiter upari vinyaset ||  
Vṛiter upari viprāṇāṁ kumudopari bhūbhṛitam |  
Jagaty-upari vaiśyānāṁ sūdrāṇāṁ pādukopari ||  
(*Kāmkāgama*, xxx, 91, 92.)
- (5) A moulding of the base (adhiśṭhāna) :  
Jagatī tu shaḍ-āṁśā syād dvi-bhāgārdha-dalī kramāt ||  
Shad-bhāgā agatī proktā kumudaṁ pañcha-bhāgikam ||  
(*Suṣrabhedāgama*, xxxi, 19, 24.)
- (6) A class of buildings (*Ep. Ind.*, Vol. 1, pp. 165, 277 ; *Ind. Ant.*  
Vol. xiv, p. 161, note 22).

JANĠAMA-(BERA)—The movable idol.

Sthāvaram jaṅgamaṁ chaiva dvi-vidhaṁ beram uchyate !  
Jaṅgamaṁ chotsavam bhavet sarvaṁ sthāvaram ishyate |  
(*M.*, LI, 17-18.)  
Evaṁ tu chotsavādīnāṁ sthāvaram jaṅgamādināḥ(-nām) |  
(*M.*, LXIV, 93.)

JANĠHĀ—The leg of an image, the pillar in a building, a column.

- (1) A synonym of the pillar (*M.*, xv, 4; *see* under STAMBHA).  
A pillar in an upper storey (*M.*, xxvi, 55; *see* under STAMBHA).  
A part of the leg from the ankle to the knee :  
Jānu-tāraṁ śarāṁśāṁ syāj jaṅghā-tāraṁ yugāṁśakam |  
(*M.*, LVII, 33, etc.)

- (2) Jaṅghochchhrāyaṁ tu kartavyaṁ chatur-bhāgena chāyātam ।  
Jaṅghāyām(-yāḥ) dvi-guṇochchhrāyaṁ mañjaryyāḥ kalpayed  
budhaḥ ॥

(*Agni-Purāṇa*, Chap. v, 423.)

- (3) Ūrddhva-kshetra-sama-jaṅghārdhva-dvi-guṇaṁ bhavet ॥  
Tad-dvidhā cha bhaved dhītir jaṅghā tad vistārārdhdhagā ॥  
Tad-vistāra-samā jaṅghā sikharaṁ dvi-guṇaṁ bhavet ॥

(*Garuḍa-Purāṇa*, Chap. XLVII, vv.  
3, 12, 17; see also v. 13.)

JANĠHĀ-PATHA (see RĀJA-PATHA)—The footpath, a road, a street, a lane.

Jaṅghā-pathas chatush-pādas tri-pādas cha gṛihāntaram ।  
Dhīti-mārgas tūrddhva-shashṭhaṁ kramaśaḥ padikaḥ smṛitaḥ ॥

(*Brahmāṇḍa-Purāṇa*, Part I, 2nd anuśaṅga-pāda, Chap.  
VII, v, 115; see also vv. 113, 114 under RĀJA-PATHA.)

JAJŅA-KĀNTA—A class of the five-storeyed buildings.

(*M.*, XXIII, 41; see under PRĀSĀDA.)

JANAKA(JANA-KĀNTA)—A class of the eight-storeyed and of the twelve-storeyed buildings.

(*M.*, XXVI, 39; see under PRĀSĀDA.)

A class of the twelve-storeyed buildings once prevailing in the ancient country of Janaka (Mithilā) :

Tad eva mahā-śālā tu dvi-bhāgaṁ madhya-bhadrakam ।  
Jana-kāntam iti proktaṁ śrēṣṭho ravi-tālānvitam ।

(*M.*, XXX, 35-36; see also 33-34, under MĀGADHA-KĀNTA.)

JANA-CHĀPĀKRITI—A type of bow-shaped arch.

Vṛittaṁ vātha tri-yugmaṁ vā chārdha-chandrākṛitis tathā ।

Jana-chāpākṛitir vāpi yatheshṭākāra-toraṇam ।

(*M.*, XLVI, 31-32.)

JANMAN (*cf.* UPĀNA)—The base, the plinth, the basement.

The basement (*M.*, XI, 125, 126; XII, 202, etc.)

The plinth of the pedestal (*M.*, XIII, 5, etc., see the lists of mouldings under UPAPĪṬHA).

The plinth of the base (*M.*, XIV, 16, etc., see the lists of mouldings under ADHISHṬĪĀNA.)

JANMA-NIRGAMA (-NISHKRAMAṆA)—The projection or extension of the base or basement.

(*M.*, XIII, 138; VI, 106, etc.)



JAYADA (*see* UTSEDHA)—A height which is  $1\frac{1}{2}$  of the breadth.

(*M.*, xxxv, 22, 26, and *Kāṃikāgama*,  
I, 24 f., *see* under ADHUTA.)

JAYANTA-PURA—A town, a village, an establishment for pious and learned Brāhmins.

(Kamauli Plates of the Kings of Kanauj, no. U,  
line 28, *Ep. Ind.*, Vol. iv, pp. 128, 129.)

JAYANTI(-I)—A column, a post, a moulding, a flag, a banner.

(1) A synonym of the balance-post (tulā-daṇḍa) :

Tulā-daṇḍam jayantī cha phalakā paryāya-vāchakāḥ ।

(*M.*, xvi, 48.)

(2) A part of the column :

Mudrikāch cha tulādhikyā jayantī tu tulopari ॥

(*Suprabhedāgama*, xxxi, 108 ; *see also* 105-109, under STAMBHA.)

(3) A moulding of the column :

Tulā-vistāra-tārochchā jayantī syāt tulopari ॥

Jayantī varṣakā jñeyā tulāvad anumārgakam ॥

(*Kāṃikāgama*, liv, 13, 16.)

JAYANTIKA(-KĀ)—A post, a moulding, a flag, a banner, the parapet staff.

In connexion with the entablature (prastara) :

Ētat prachchhādanāt sthāne daṇḍam chopari śāyayct ।

Ētat dvāra-vaśād dīrgham tasyopari jayantikam ।

Dāru-daṇḍam śilā vāpi ishṭakena jayantikam ।

Athavā dāru jayantiś cha śilā chet saha-daṇḍakam ।

Vinā daṇḍam tathā kuryāt pāshāṇam phalakā nyaset ।

Ētat sarvālaye kuryād deva-harmye viśeshataḥ ।

(*M.*, xvi, 124-129.)

Ādhāra-paṭṭa-samyuktam sa-tulam tu jayantikam ।

(*Ibid.*, xvi, 149 ; *see M.*, xxxiii, 372-374.)

JAYA-BHADRA—A pavilion with twenty-two columns.

(*Suprabhedāgama*, xxxi, 102, 100 ; *see* under MAṆḌAPA.)

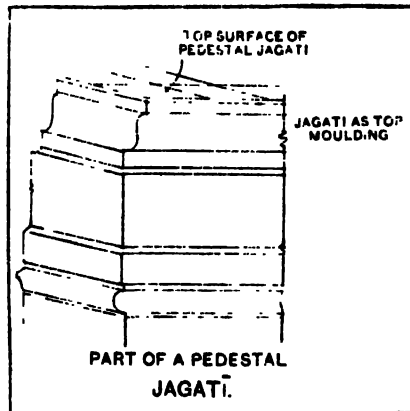
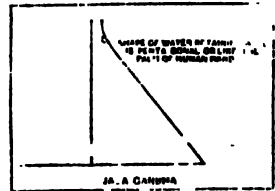
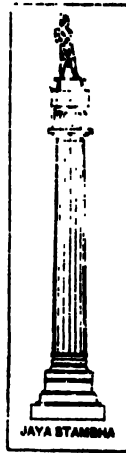
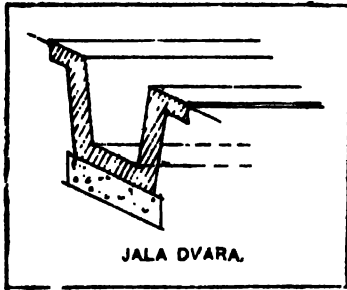
JAYA-STAMBHA—A pillar of victory (*see* under STAMBHA).

JAYĀLA—A type of pavilion.

(*M.*, xxxiv, 294 ; *see* under MAṆḌAPA.)

JAYĀVAHA—A pavilion with fifty pillars.

(*Matsya-Purāṇa*, Chap. cclxx, v. 9 ;  
*see* under MAṆḌAPA.)





**JALA-GARBHA** (*see* GARBHA)—The water-foundations, the foundation of a tank, etc.

(*M.*, XII, 184-189 ; *see* under GARBHANYĀSA.)

**JALA-DURGA** (*see* under DURGA)—A water-fort.

(1) *Kauṭīliya-Artha-śāstra* (Chap. XXIV, para. 1, p. 51 ; *see* under DURGA).

(2) *See* *Sukranīti* under DURGA.

**JALA-DVĀRA**—The water-door, a gutter, a drain.

Jala-dvārām punas teshām pravakshyāmi niveśānām ||

In the three following lines the positions of the water-door are described.

(*Kāṁikāgama*, XXXV, 167.)

A gutter :

Kuryāt tu bhitti-mūle tu jala-dvārām yatheshṭa-dik |

(*M.*, XXXI, 99 ; *see also* IX, 310-312, under DVĀRA.)

Jala-dvārām yathāsārā(-sālām) nimna-deśe prakalpayet |

(*M.*, XXXVIII, 8 ; *see also* 40.)

**JALA-DHĀRĀ**—The gutter-like part of the pedestal (pīṭha) of the phallus.

Nāla-tāra-tri-bhāgaikam jala-dhārā-viśālakam |

(*M.*, LI, 23, etc.)

**JALA-PŪRITA-MANḌAPA**—A detached building where water is preserved for bathing, washing, etc.

Parjanya majjanārthāya jala-pūrita-manḍapam |

(*M.*, XXXII, 56, etc.)

**JALA-STHALA**—A reservoir of water.

In connexion with the three-storeyed buildings :

Paritāś chaika-bhāgena kūṭa-śālādi-bhūshitam |

Tasyāntāś chāvritārnśena chordhva-deśe jala-sthalam |

(*M.*, XXI, 58-59.)

In connexion with the four-storeyed buildings :

Ekena karṇa-harmyādi tasyāntar jala-(tat)-sthalam |

(*M.*, XXII, 78, etc.)

In connexion with the nine-storeyed buildings :

Śreṣṭhānā nava-talaṁ proktaṁ viśva-kāntam udīritam |

Tad-ūrdhve dvyamśa-mānena vakshye chordhve jala-sthalam |

(*M.*, XXVII, 33, 34, etc.)

In connexion with the prakāra buildings :

Shaḍ-aṅgulāvāśānān śyāt kramāt (! bhramāt) sarve jala-sthale |

(*M.*, XXXI, 95.)

JALĀNTA—Foundations reaching the underground water in connexion with buildings.

- (1) Khānyed bhū-talaṁ freshtāṁ purushāñjali-mātrakam |  
Jalāntaṁ vā śilāntam vā pūrayed vālukair jalaiḥ ||

(M., xviii, 6-7.)

- (2) *Samgraha-śiromani*, by Sarayū Prasāda (xx, 23) quotes from Māṇḍavya :

Jalāntaṁ prastarāntaṁ vā purushāntam athāpi vā |  
Kshetraṁ sarśodhya chodhṛitya śalya-sadanam ārabhet |

- (3) *Vāstu-yāga-tattva* by Raghunandana quotes from the *Līnga(-Purāṇa)* without any reference :

Agrataḥ śodhayitvā tu bhūmiṁ yasya puroditam |  
Dvi-hastaṁ chatur-hastaṁ vā jalāntaṁ vāpi śodhya cha ||

JALA-SŪTRA(-SŪTRADA)—A channel, a hydraulic engineer.

(1) 'The engineers of the Belāla Kings did not confine their attention to building alone, but irrigation works were also taken in hand. Tradition has it that the waters of the Yagachi which flows through a valley distant 10 miles and divided by a range of hills from the Halabid valley, were brought by a channel to supply the capital with water and fill the neighbouring tanks ; a deep cutting on the Hasan-Bailur road at the 16th mile, works the spot where the channel crossed the saddle of the hills.'—(*Ind. Ant.* Vol. 1, p. 44, c. 2, para. 2 middle.)

(2) 'Where as we constructed a new dam in the Kāverī and led a channel therefrom, and the Brāhmins of Harahu made with us the following agreement in order that the channel might be brought within the limits of their village Harahu.'—(*Ep. Carnat.*, Vol. iii, Seringapatam Taluq, no. 199 ; Transl. p. 33, line 3, Roman Text, p. 77, line 5.)

(3) Jalāndarava māḍisi devāṅge—'erecting a jalāndara (?) for the god' (? temple).—(*Ep. Carnat.*, Vol. iii, Malavalli Taluq, no. 64 ; Roman Text, p. 147, line 3 ; Transl., p. 63.)

(4) 'Vīra-pṛatāya Bukka-Rāya in his court gave an order to the emperor (or master) of ten sciences (daśa-vidyā-chakra-varti), the hydraulic engineer (*jala-sūtra-da*) Singāya-bhaṭṭa, that they must bring the Henne river to Penugoṇḍe—and that Singāya-bhaṭṭa conducting a channel to the Siruvera tank gave to the channel the name Prātāpa-Bukka-Rāya maṇḍala channel and had this śāsana written.'

'An interesting case is recorded in this inscription : when the prince Bukka Rāya was Governor of Penugoṇḍa in A. D. 1388, he ordered the hydraulic engineer to bring the Henne river (the modern

Pennār to the city. Accordingly a channel was made from Kal. lūḍi to the Siravera tank, 10 miles to the north. How the water was carried beyond that does not appear. An amusing account is given of the accomplishments of the engineer who was mastet of ten science'

Jala-sūtra-svara-śāstre rasa-vaidyē satya-bhāshāyām ।

Ruḍṭaya-siṅgari-bhavataḥ sadṛśaḥ ko vā mahi-tale śūraḥ ॥

(*Ep. Carnat.*, Vol. x, Goribidpur Taluq, no. 6 ; Roman Text, p. 259 f. ; Transl., p. 212 ; Preface, p. 2.

(5) Saying to them "you must make this channel" they sent for the last Voja's son Peda-Bayiraboja, and gave them the contract. And they dug a channel from before Peda Nandisiyūru and carrying it on below led it so as to fill the tank.'—(*Ep. Carnat.*, Vol. x, Bagepalli Taluq, no. 10 ; Roman Text, p. 285 ; Transl., p. 232.)

**JĀTI**—A class of buildings, a door, a type of top-room, a phallus, a kind of measure.

Kesaryādi-prāsāda-jāti—' the Kesari and other classes of buildings.'

(*Prāsāda-Maṇḍana-Vāstu-Śāstra* of Sūtra-dhāra-Maṇḍana, vi, MS. Egg. 3147, 2253, fol. 26 b.)

A class of building :

Karṇa-madhyc'natre kūṭa-koshṭhe pañjara-samhyutam ।

Shaḍ-vargaka-samāyuktam jātir eśhām hy-anarpitam ॥

(*Kāṁikāgama*, XLV, 19 ; see also 7 and cf. L, 9, 11.)

A class of kūṭa-koshṭha or top rooms (*Kāṁikāgama*, LV, 123-128 ; see under KARṆA-KŪṬA).

A class of buildings (*M.*, XI, 104-107 ; XIX, 1-5 ; XXX, 175-177 ; XXXIV, 549-552 ; LV, 51 ; see under ĀBHĀSA).

Cf. Kechid bhadra-viseshena jātir uktam purātanaiḥ ।

(*M.*, XXXIV, 553.)

A class of doors (*M.*, XXXIX, 28-35 ; see under ĀBHĀSA).

A type of the phallus (*M.*, LII, 49 ; see under ĀBHĀSA).

**JĀTI-PRĀKĀRA**—The enclosure-(buildings) of the Jāti class.

(*M.*, XXXI, 35 ; see under PRĀKĀRA.)

**JĀTI-ŚĀLĀ** (see JĀTI)—The śālā (hall, mansion) of the Jāti class.

Evam tu jāti-śālā cha kuryād-dharmya-vaśāt sudhiḥ ।

(*M.*, XXXI, 20, etc.)

JĀTI-HARMYA—The buildings of the Jāti class.

Vaksh'ham jāti-harmyāṇām āyādi-lākṣhaṇaṁ kramāt |

(M., xxx, 169, etc.)

JĀLA-(KA, KĀ) (cf. VĀTĀYANA)—A latticed window, an ornament.

(1) *Mānasāra* :

In connexion with the single-storeyed buildings :

Yat tan nāmāntarālaṁ chordhve nāsikā jāla-pañjarāṁ vāpi |

(M., xix, 215.)

In connexion with the seven-storeyed buildings :

Nānā-prastara-saṁyuktaṁ jālakābhir alaṅkṛitam |

M., xxv, 37.)

In connexion with the nine-storeyed buildings :

Toraṇādy-aṅga-niḍaiś cha jālakādi-vibhūṣitam |

(M., xxvii, 44.)

In connexion with the gopuras (gate-houses) :

Narāṇāṁ jālakaṁ sarvaṁ devānām api योग्याकम् |

(M., xxxiii, 572.)

In connexion with the maṇḍapas (pavilions) :

Tad eva chesṭa-dig-vāsaṁ kuryād evaṁ tu jālakam |

(M., xxxiv, 205.)

In connexion with the door :

Jayante vā mṛige vāpi chopadvāraṁ tu jālakam |

(M., xxxviii, 19.)

In connexion with the doors of the kitchen (latticed windows are provided for the easy passage of smoke) :

Tad-ūrdhva-gamanārthāya kshudra-jālaka-saṁyuktam |

(M., xxxviii, 36.)

Devānaṁ harmyake sarvaṁ madhya-dvāraṁ tu jālakam |

(M., xxxix, 138.)

Jālakādhika-hinaṁ syād ūri-hinam artha-nāśanam |

(M., lxix, 35.)

An ornament for the feet :

Ratnāṅguliyakau hastau pādāṁ jāla-saratnakam |

(M., li, 39.)

Chāmupḍi jvāla (? jāla)-mauli cha bhairavi pibārāla-  
kam(-kā) |

(M., liv, 136.)

(2) *Manu-Saṁhitā* (viii, 192, etc.) :

Jālāntara gate-bhānau yat sūkṣmaṁ drīṣyate rajaḥ |

(3) *Rāmāyaṇa* (Cock) :

V, 2, 49 : (Purīṁ) śata-kumbha-nibhair jālair gandharva-nagara-  
pamām |

- V. 2, 53 : Mahārha-jāmbhu-nada-jāla-toranāṃ (Laṅkāṃ) |  
 V. 4, 6 : Vajra-jāla-vibhūshitaiḥ grīha-meghaiḥ |  
 V. 8, 1 : Mahad vimānam . . . pratapta-jāmbu-nada-jāla-kṛitri-  
 mam |  
 V. 9, 22 : (Sālām). . . hema-jāla-virājītām |  
 V. 54, 22 : Kāñchana-jālāni. . . (bhavanāni) |  
 III, 55, 10 : Hema-jālāvṛitās chāsarṅs tatra prāsāda-panktayaḥ |

(4) *Mahābhārata* :

- I. 185, 19-20 : Prāsādaiḥ sukṛitochchhrayaiḥ |  
 Suvarṇa-jāla-saṃvṛitair maṇi-kuṭṭīma-bhūṣhaṇaiḥ |  
 I. 134, 14 : Mukta-jāla-parikṣiptaṃ vaidūrya-maṇi-śobhitam |  
 Śata-kumbha-mayaṃ divyaṃ prekṣhāgāram upagatam |  
 I. 128, 40 : Gavākshakais tathā jālaiḥ |  
 II. 34, 21 : (Āvasathām) . . . suvarṇa-jāla-saṃvitān |

(5) *Śilpa-sāstra-sāra-saṃgraha* (IX. 23) :

Eka-bhāgaś chatuḥ-stambhaś chatur-dvāraḥ sa-jālakāḥ |  
 Cihhādyā-ghaṇṭā-yuto māḍa-śobhitaḥ śṛidharamataḥ |

(6) *Kāṃikāgama* (LV, 94, 158-163) :

- Jālakam pālakam śailam aiṣṭam kuḍyaṃ cha ishyate |  
 Jālakair bahubhir yuktaṃ jālakam kuḍyam ishyata || (94)  
 The seven kinds of the latticed windows :  
 Riju-jālakam ādyaṃ syāt gavākshaṃ kuñjārākshakam |  
 Go-mūtraṃ gaṇikā-patra(m) nandyāvartaṃ cha saptadhā || (158)  
 Riju-kampa-yutaṃ yat tu riju-jālakam uchyate |  
 Karṇa-gatyā yadā śrotraṃ gavāksham iti kīrtitam || (159)  
 Tad eva chatur-aśrotthaṃ kuñjārāksham iti smṛitam |  
 Vidig vaktra-gataṃ dṛiṣṭiṃ go-mūtram iti kīrtitam || (160)  
 Mūlam apy-agra-gulikā-mṛidu-bhitty-antarārchitam |  
 Nānā-chchhidra-samāyuktaṃ gaṇikā-jālakam bhavet || (161)  
 Patrair vichitraṃ randhraṃ patra-jālakam ishyate |  
 Patra-sūtra-gataṃ randhraṃ pradakṣiṇya-krameṇa tu || (162)  
 Nandyāvartaṃ iti proktaṃ vedy-ūrdhve jālakam nayet |  
 Svayambhuvādi liṅge tu yathākāmaṃ prayōjayet || (163)

The situation of latticed windows :

Jalakaṃ cha kavātaṃ cha bāhye bāhye prakalpayet |  
 Sarvataḥ kuḍya-saṃyuktaṃ mukhya-dhāmātra-kīrtitam ||  
 Chatur-dig-bhadra-saṃyuktaṃ dvāra-jālaka-śobhitam ||

(M., XLII, 8, 26.)

The ornaments and component parts of such windows :

Jālaka-stambha-kuḍyāṅga-nāsika-toraṇānvitam |  
 Prastara-kshudra-sopānaṃ sopānādi-samanvitam ||

(M., XLII, 25.)



(7) *Suprabhedāgama* (xxxii, 52, etc.):

Vedikā-jālakopetā (parvatākṛtiḥ, a building).

(6) 'He, the emperor of the south, caused to be made of stone for Vijaya-Nārāyaṇa (temple) *lattice window* (jālaka-jālakam), secure door-frame (kavāṭam), door-lintel, kitchen, ramparts, pavilion, and a pond named the Vāsu-deva-tīrtha.'

'The pierced stone-windows, which form one of the most beautiful features of the Belur temple, may be of a later date, about 1200 (refers to the inscription quoted above) and due to Ballala II.'

In connexion with the same windows, Mr. Rice quotes Mr. Fergusson: 'The richness and variety of pattern displayed in the windows of the porch are astonishing. They are twenty-eight in number, and all are different . . . The pierced slabs themselves, however, are hardly so remarkable as the richly-carved base on which they rest, and the deep cornice which overshadows and protects them.'

(*Ep. Carnat.*, Vol. v, Part 1, Belur Taluq no. 72; Transl., p. 61; Roman Text, p. 61, line 7; Introduction, pp. xxxvi, xxxviii, xxxix.)

(7) See bars on the perforated windows.—(Chāluḅyān Architecture, *Arch. Surv.*, New Imp. Series, Vol. xxi, Plate xxxvii, fig. 2.)

(8) See samples of the perforated windows.—(*Ibid.*, Vol. xxiii, Plate xxxiv, *ibid.*, Vol. xxix, Plate xlii.)

(9) See 264 kinds of geometrical and very artistic patterns of screens.—(*Jāla Kaumudī*, by Pandit Kundanlāl, pp. 188, second paging.)

### JĀLA-GAVĀKSHA—The lattice window.

(1) Jāla-gavākshaka-yuktaḥ—'furnished with lattice windows.'

(*Bṛihat-Saṁhitā*, lvi, 22, *J.R.A.S.*, N. S., Vol. xi, p. 319.)

(2) Jāla-gavākshair yuktaḥ (*Bhaviṣhya-Purāṇa*, Chap. cxxx, v. 29.)

(3) Muṇḍana jālāndravah maḥisidaru—'had the lattice windows made for the Tirthankaras, which their father had had made.'—(*Ep. Carnat.*, Vol. ii, no. 78; Roman Text, p. 62; Transl., p. 151.)

### JĀLĪ—A trellis window or screen.

Śri-uttareśvara-deva-maṇḍape jāli kārāpita—'a trellis was caused to be made in the temple of'. . .—(Ahmadabad Insc. of Viśaladeva, A.D. 1251, lines 7-8, *Ep. Ind.*, Vol. v, pp. 103, 102.)

JINA(-KA) (see TIRTHANĀKARA)—The temple of the Jains, the Jain deity.

(*M.*, xix, 252; xxxii, 165; xliii, 145, etc.)

The description of the Jain deities (*Mānasāra*, Chap. 1v, 71-95):  
They are either stationary or movable (71).

The general features :

Dvi-bhujam cha dvi-ṅetraim cha muṇḍa-tāraṁ cha śirṣhakam ।  
(72)

Sphaṭika-śveta-raktaṁ cha pīta-śyāma-nīhaṁ tathā । (86)

They are made in the erect, sitting or recumbent posture (line 73-76) and in the lotus-seat pose (padmāsana).

The attendant deities are Nārada, Yakshas, Vidyādhara, Nāgendra, Dik-pālas and Siddhas (lines 82-88). They are stated to be five classes (line 89).

The 24 Tīrthas (i.e. Tīrthaṅkaras or apostles) are measured according to the dasa-tāla system (line 91).

Their general features (lines 91-92) :

Nirābharapa-sarvāṅgaṁ nirvastrāṅga-manoharam ।

Savya-vaksha(ḥ)-sthale hema-varṇaṁ śrīvatsa-lāñchhanam ।

JYĀ (*see* LUPĀ)—A kind of pent-roof.

(*M.*, xviii, 177 ; *see* under LUPĀ.)

JYOTIḤ (*see* LUPĀ)—A kind of pent-roof.

(*M.*, xviii, 174 ; *see* under LUPĀ.)

JYOTISH-KĀNTA—A class of six-storeyed buildings.

(*M.*, xxiv, 20 ; *see* under PRĀSĀDA.)

JVARA-DEVĀLAYA—The temple of the god of fever, a hospital or dispensary for curing patients of fever which represents all diseases.

Agnim (agnau) pūha-pade vāpi jvara-devālayam bhavet ।

(*M.*, xi, 390.)

' This (no. 43 and the next following seven, 44-50, Velur, inscriptions record grants to Jvara Khaṇḍeśvarasvāmin of Velur, i.e. to the Vellore temple, which is now-a-days called Jala-khaṇḍeśvara (*North Arcot Manual*, p. 189). The name of the temple is spelt Jvara-khaṇḍeśvara in five inscriptions, Jvara-khaṇḍeśvara in two others, and Jvara-kandheśvara in one of them. The Sanskrit original of these various forms seems to have been Jvara-khaṇḍeśvara. Jvara-khaṇḍa, "the destroyer of fever" would be synonym of Jvara-hara, which is applied to Śiva in the name of one of the Kāñchipuram temples. (*Sewell's Lists of Antiquities*, Vol 1, p. 180).—(*H.S.I. I.*, Vol. 1, Velur Insc. nos. 43-50, p. 69, para. 2, notes 3, 4.)

## D

DOLĀ (for DOLĀ)—A hammock, a swing, a litter.

(*M.*, L, 47, 152-171 ; see under PARYAṆKA.)

## T

TAKSHAKA (see STHAPATI)—A wood-cutter, a carpenter.

(See details under STHAPATI.)

TADĀGA—A tank, a pool.

- (1) Mīna-maṇḍūka-makara-kūrmāś cha jala-jantavaḥ |  
 Kāryā dhātu-mayāś chaite kartṭī-vittānusārataḥ ||  
 Matsyau svarṇamayau kuryāt maṇḍū vāpi hemajau |  
 Rājatau makarau kūrmma-mithunaś tāmra-rītikam ||  
 Etair jala-charaiḥ sārddhaś taḍāgam api dīrghikām |  
 Sāgaraś cha samutsrījya prārthayan nāgam archchayet ||

The execution of the images of fish, shark, frog and tortoise for a tank with metals like gold, silver, copper, etc., is worth notice.

(*Mahānirvāṇa-tantra*, XIII, 167, 168, 169.)

- (2) See Dewal Prasasti of Lalla the Chhinda (v. 20, *Ep. Ind.*, Vol. I p. 79, 83.)

(3) See Khajuraho Inscip. no. iv (v. 38, *Ep. Ind.* Vol. I, p 144).

(4) See Śrīdhara's *Devapattana Prasasti* (v. 10, *Ep. Ind.*, Vol. II, p. 440).

(5) Ananta-prāpi-suprīti-kāribhir bhuribhiḥ |

Taḍāgais sāgarābhogair yo vibhūshita-bhu-talaḥ ||

(Two pillar Inscip. at Amaravati, no. A, Inscip. of Keta II, v. 41, *Ep. Ind.*, Vol. VI, p. 152.)

- (6) Wayside tank :

Apāḥ śālā-mālāḥ pathi pathi taḍāgāḥ |

(Two Bhuvaneśvara Inscip. no. A, of Svapneśvara, v. 30, *Ep. Ind.*, Vol. VI, p. 202.)

- (7) Khsetreśasya tathā surālaya-varaś sphitaś taḍāgaś tathā bandhaś  
 Kauḍika-samjñakaś bahu-jalaś dīrghaś ṭathā khānitam |

(Kanker Inscip. of Bhanudeva, v. 7, *Ep. Ind.*, Vol. IX, p. 127.)

- (8) Pratinidhim udadhīnāś saṁchayan toyasrīṣṭer akṛita jagati-keśar-  
 yyākhyā yas taḍākam |

'And who constructed a tank (which he called) by (his) name Jagati-kesarin, which equalled the ocean, and which accumulated the downpour of water.'—(Ekamranath Inscip. of Ganapati, v. 9, *Ind. Ant.*, Vol. XXI, pp. 200, 201.)

**TANḌULA-MANḌAPA**—The store-room, a granary, a detached building where stores are kept.

(*M.*, XXXII, 64; *see* under MANḌAPA.)

**TADBHADRA**—A site plan in which the whole area is divided into 196 equal squares.

(*M.*, VII, 18; *see* under PADA-VINYĀSA.)

**TANTRA**—Used in the same sense as ŚĀSTRĀ or, the science of architecture (*M.*, XI, I, 14, 102, 145; *M.*, XII, 67).

*Cf.* ŚILPA-TANTRA (*M.*, XII, 67).

**TAPASH-KĀNTA**—A class of the eight-storeyed buildings.

(*M.*, XXVI, 41-42; *see* under PrĀśĀDA.)

**TARAṄGA**—Waves, an ornament or moulding employed in capitals terminating by undulating lines.

Bodhikochcha-taraṅgaṁ syāt sarvālaṅkāra-saṁyutam |

Tad eva tuṅga-mānc tu dvā-daśāṁśe vibhājite |

Adho-bhāge tri-bhāgena taraṅgākṛiti(m) viṅyaset |

(*M.* XV, 155-157, *see also* 164.)

A similar ornament of the entablature :

Devānāṁ bhū-patīnāṁ cha chordhve madhye taraṅgakam |

(*M.*, XVI, 202.)

Taraṅga-vetra-saṁyuktam kuṅjarākshair alaṅkṛitam |

Pādānāṁ cha taraṅgaṁ vā choktavat samalaṅkṛitam |

(*M.*, I, 267-268.)

**TALA** (*see* BHŪMI)—The storey, the palm, the sole, a moulding of the column.

(1) *Mānasāra* :

Buildings of one to twelve storeys are prescribed for people (and animals) of different ranks :

Ekādi-dvi-bhūmyantaṁ kalpa-grāmasya harmyake bhavati |

Ekādi-tri-bhūmyantaṁ prabhākarasya chālayaṁ proktam |

Ekādi-chatur-talāntaṁ paṭṭabhāk-chālayam iti kathitam |

Tri-talādy-ashṭa-talāntaṁ narendrasya chālayaṁ proktam |

Tri-talādi-ṇava-talāntaṁ mahārājasya bhavanam uditam |

Pañcha-talādy-arka-talāntaṁ chakravartī-harmyaṁ syāt |

Ekādi-tri-talāntaṁ yuva-rājasya chālayaṁ proktam |

Sāmanta-pramukhānāṁ chaikādi-tri-tala-paryantaṁ syāt |

Kshudra-bhūpasya(-pānāṁ) sarveshāṁ ekādi-tri-tala-bhūmi-paryantaṁ |

Sthapati-sthāpakānām tu gabhastikādīkām(-kānām) tu yūthakānām  
cha ।

Dvi-jāti-ś(-sm)arāṇām tv-eka-dvi-tri-tala-paryantam ।

Ugraiva-jivinām chaiva śālaika-dvi-tri-tala-paryantam ।

Gajāśvādi-śālānām talam ekaṁ kartavyam prokam ।

Devānām api sarveshām hary-aikādy-anta-bhūpatinām chaiva ।

Anyat sarva-jātinām nava-talam kuryāt tad-ālayam proktam ।

Maṇḍapam nava-talam kuryād bhavanam anya-raṅgam vādhi-  
maṇḍapākāram ।

Etat tu bhūmi-lambam purāṇaiḥ sarvais tantravit-proktam ।

(M., XI, 127-141, 144-145.)

The sole :

Nalākāntam tri-mātram syāt tala-tāram yugāṅgulam ।

(M., LVII, 34 ; see also LXVI, 13, etc.)

The palm :

Tala-dīrgham śaḍ-āṅgulyam śeshāmśam madhyamāṅgulam ।

(M., LIX, 49, etc.)

(2) Eka-bhūmam dvi-bhūmam vā kshudrāṇām bhavanam nṛṇām ।

Śūc. ṅām tri-talam kuryād vaiśyānām tu chatuṣ-talam ॥

Kshatriyādeḥ pañcha-bhumir dvijānām rāga-bhūmikam ॥

Saptādhyam maṇḍalikānām bhū-bhujām nava-bhūmikam ॥

Ekādaśa-tala-geham vidadhyāch chakra-vartinām ॥

Udayārkārka-bhāgena hīnā ūrdhordhva-bhūmikāḥ ॥

(Śilpa-śāstra-sāra-saṅgraha, VIII, 29-31.)

(3) Āruroha . . . prāsādam hima-pāṇḍuram bahu-tala-samutsedham ।

(Rāmāyaṇa, VI, 26, 5, etc.)

(4) A moulding of the column.

(Suprabhedāgama, XXXI, 108, 105-107 ; see under STAMBHA.

TALPA(KA) — 'A couch, bed, sofa, an upper storey, a room on the top of a house, a turret, a tower' made of heavy and strong *udumbara* wood (*Taitt. Brā.*, I, 2, 6, 5), 'with four feet and four frame pieces (*ushyala*) fashioned (moulded and carved) by *tvashṭar* (carpenter) and embroidered and inlaid.' Nuptial bedstead (*R.-V.*, VII, 55, 8 ; *A.-V.*, IV, 5, 3 ; V, 7, 12 for king and his wife ; XIV, 2, 31, 41 bridal : *Taitt. Sam.*, VI, 2, 6, 4 : *Taitt. Brā.*, II, 2, 5, 3 ; *Panch. Brā.*, XXIII, 4, ' ; XXV, 1, 10) Compare ΤΑΛΡΥΑ (legitimate son born in nuptial bed, *Guru-lalpa* (bed for preceptor). Base of the neck of a dome on the top of an edifice (*M.*, XVIII, 170).

Argalaṁ dakṣiṇe bhāge vāma-bhāge tu talpakam ॥  
Yugme mahati talpe cha dakṣiṇasthe kavātake ॥

(*Kāṁikāgama*, LV, 49, 42 ; see also 39, 48.)

**TĀṬ(-D)ĀŅKA**—An ornament for the ear of an image.

(1) Karṇe vibhūṣaṇaṁ kuryān makarāṅkita-kuṇḍalam ।  
Athavā svarṇa-tāṭaṅkau. . . ।

(*M.*, L, 43-44 ; see also 294, etc.)

(2) See Deopara Insc. of Vijayasena (v. 11, *Ep. Ind.*, Vol. I, pp. 308, 313).

(3) Tāṭaṅka-darpaṇo nāma dvitīyo'ṅkaḥ—'the second act named the reflecting ear-ring. —(*Dhara Praśasti* of Arjunavarman, line 82, *Ep. Ind.*, Vol. viii, pp. 116, 100.)

**TĀṬIKĀ**—A moulding of the column, tenia.

(*M.*, xv, 60, 142 ; see under STAMBHA.)

Kumbhādhaś chordhva-deśe tu vaṭa-patrādi-śobhitam ।  
Nimnaṁ tāṭikādīni yuktyā prāg-uktaban nayet ।

(*M.*, xv, 189-190.)

Pāda-tuṅge'shṭa-bhāge tu . . . ।

Bodhikaṁ muṣṭi-bandhaṁ cha phalakā-tāṭikā-ghaṭam ।

(*M.*, XLVII, 17-18.)

Agre cha phalakāntaṁ cha tāṭikādyair vibhūṣitam ।

(*M.*, L, 78.)

**TĀLA-MĀNA**—A sculptural measurement. In this system the length of the face (including the top of the head) is stated to be the unit (*Matsya-Purāṇa*, Chap. CCLVIII, v. 19). But it seems more logical to have the span or the distance between the tips of the fully stretched thumb and middle-finger, which is technically called *tāla* (see below), as the unit. It admits of many varieties : the ten-tāla measures are mentioned in the *Mānasāra*. But the *Bimbamāna* has reference to twelve kinds (see below). Each of these ten or twelve kinds is again subdivided into three types, namely, the *uttama* or the largest, the *madhyama* or the intermediate, and the *adhama* or the smallest. Thus an image is of *daśa-tāla*<sup>1</sup> measure when its whole length is equal to ten times the face (including the top of the head). In the largest

<sup>1</sup> The idea of *daśa-tāla* may have been originated from the following :

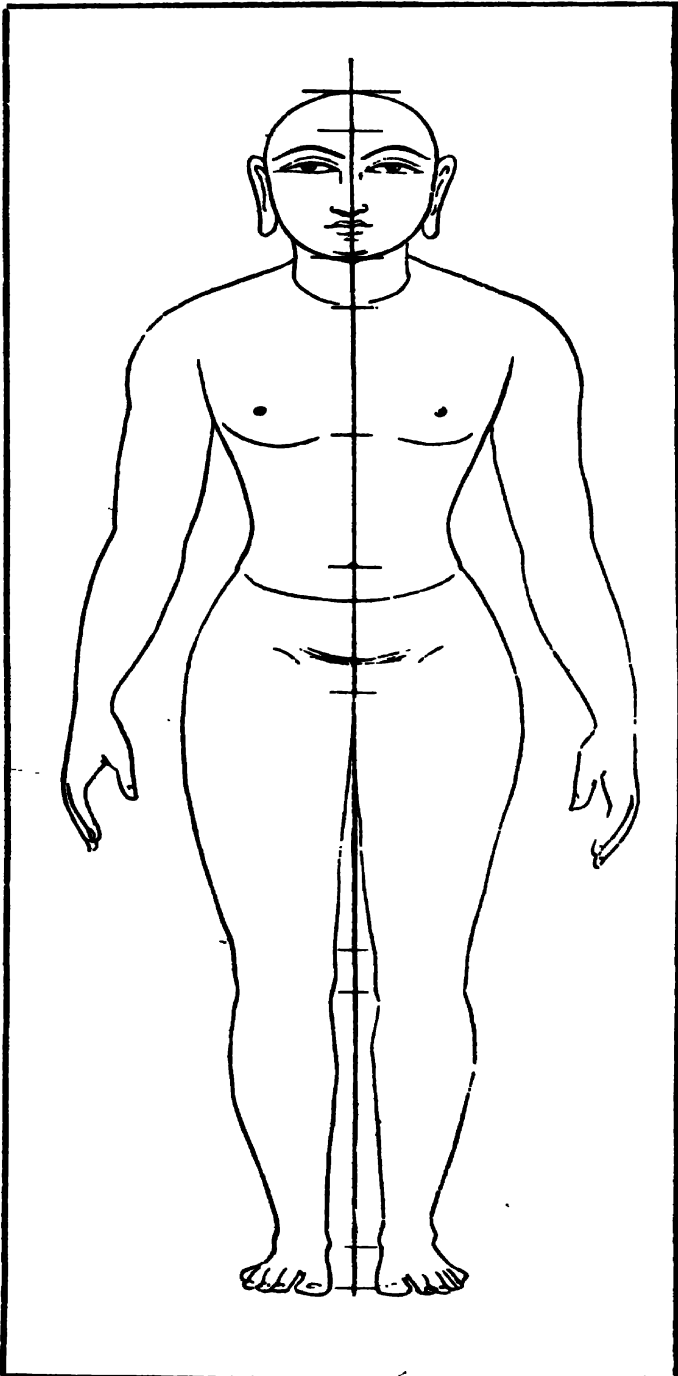
सहस्र भौज्य प्रकयः सद्भ्याज्ञ । सदभ्यात् ।

स भूमिं सर्वतः सृष्ट्वोत्पत्तिः सद्भ्यागुलम् ॥ ( सु० सू० 1, R. X.)

type of the *daśa-tāla* system, however, the whole length is divided into 124 equal parts which are proportionately distributed over the different parts of the body; in the intermediate type, the whole length is divided into 120 equal parts, and in the smallest type into 116 equal parts. In the *nava-tāla* system, the whole length would be nine times the face, in the *ashta-tāla*, eight times, and so forth. The details of the following *tāla* measures are given in the *Mānasāra* :

The largest type of the two-tāla system in which the goose, the riding animal of Brahmā, is measured (*M.*, LX, 6-35) :

	<i>Parts</i>
(1) Height of head .. ..	4
(2-3) height of neck .. ..	8
(4) height (length) of heart (chest) .. ..	11
(5) (below this) height of thigh .. ..	1½
(6) height of knee .. ..	1
(7) length of leg .. ..	1½
(8) height of foot .. ..	1
(9) breadth of face .. ..	3
(10) at the back of the head .. ..	2
(11) length of face .. ..	4
(12) neck at the root [it tapers from bottom to top and is furnished with two faces (beaks)] .. ..	1
(13) length of belly (kukshi) .. ..	8
(14) place of the stomach (udara-sthāna) .. ..	8
(15) from the belly to the root of the tail .. ..	16
(16) breadth of wing .. ..	5
(17) length of wing .. ..	8
(18) height of wing .. ..	2
(19) height of wing at the edge (agra) .. ..	1
(20) thickness of wing .. ..	1
(21) length of arm (bāhu) .. ..	8
(22) elbow .. ..	1
(23) width at the forepart of the head .. ..	6
(24) width at the root of the perfectly round thigh .. ..	2½
(25) breadth at the forepart .. ..	1½
(26) breadth of knee .. ..	½
(27) breadth of leg .. ..	1
(28) breadth of sole (palm) .. ..	2
(29) breadth of middle-finger at the forepart .. ..	4
(30) each of two fingers on either side .. ..	2
(31) length of face .. ..	3







	<i>Parts</i>
(32) breadth of face .. .. .	1
(33) length of eye and its breadth should be proportionate .. .. .	$\frac{1}{2}$
(34) distance between the eye-line and ear-line .. .. .	2 yavas
(35) the crest above the head .. .. .	1 or 2 parts
(36) its width ending by the back of head .. .. .	6
(37) its breadth .. .. .	4

and the rest is left to the discretion of the artist :

Seshaṁ yuktyā prayojayet (35).

In the seven-tāla system the whole height is divided into 84 equal parts which are distributed as follows :

	<i>Parts</i>
(1) Crown of the head (murdhni) .. .. .	2
(2) face .. .. .	10
(3) neck .. .. .	3
(4) (from neck to) heart .. .. .	10
(5) (from heart to) navel .. .. .	10
(6) (from navel to) sex-organ .. .. .	5
(7) suraga (? hole) is of same parts as the back (piṭhāṁśa)	
(8) thigh (ūru) .. .. .	3
(9) knee (jānu) .. .. .	3
(10) leg (pāda) .. .. .	3
(11) length of arm .. .. .	20
(12) elbow .. .. .	$1\frac{1}{2}$
(13) forearm (prakoshṭha) .. .. .	16
(14) palm (including fingers) .. .. .	8
(15) foot .. .. .	11
(16) breadth of the face .. .. .	7
(17) width of the neck .. .. .	5
(18) width at the arm-joint .. .. .	5
(19) width of the chest between armpits .. .. .	14
(20) width by heart .. .. .	12
(21) width by mid-belly .. .. .	16
(22) width by loins (kaṭi) .. .. .	12
(23) width of the thigh .. .. .	8
(24) width of the knee .. .. .	5
(25) width of the leg (jānghā) .. .. .	4
(26) width at the ankle .. .. .	3
(27) width of the sole .. .. .	4

	<i>Parts</i>
(28) width of the forepart of arm .. .. .	4
(29) width of the forearm .. .. .	4½
(30) the wrist .. .. .	1
(31) width of the palm .. .. .	3½
and length of the plam .. .. .	4
(32) length of finger .. .. .	1

In the eight-tāla system the whole length is divided into 96 equal parts which are distributed as follows :

	<i>Parts</i>
(1) Head from the crown (ushṇīṣha) to the end of the hair on the forehead .. .. .	3
(2) thence the face (up to the chin) .. .. .	10½
(3) thence the neck .. .. .	3
(4) thence to heart .. .. .	10½
(5) thence to navel .. .. .	10½
(6) thence the mid-belly (up to sex organ) .. .. .	10½
(7) the thigh (below sex organ up to knee) .. .. .	21
(8) knee .. .. .	3
(9) leg .. .. .	21
(10) foot (height) .. .. .	3
(11) length of foot .. .. .	14
(12) breadth of face .. .. .	9
(13) width of neck .. .. .	6
(14) shoulder (up to arm-joint) .. .. .	4½ (3 and 1½)
(15) width at the root of arm .. .. .	6
(16) length of arm .. .. .	21
(17) elbow .. .. .	1½
(18) (from elbow) forearm (half of face) .. .. .	5½
(19) palm (including fingers) (equal to face) .. .. .	10½
the rest should be as before.	

In the largest type of the nine-tāla system the whole length is divided into 112 equal parts (*M.*, LIX, 14-64) :

	<i>Parts</i>
(1) Crown (head proper) .. .. .	4
face (comprising) .. .. .	12
(2) (thence) forehead (up to the eye-line) .. .. .	4
(3) thence to tip of nose .. .. .	4
(4) thence to chin .. .. .	4
(5) neck .. .. .	4
(6) thence to heart .. .. .	12

	<i>Parts</i>
(7) thence to navel .. ..	12
(8) thence to sex organ .. ..	12
(9) thigh (twice the face) .. ..	24
(10) knee (=neck) .. ..	4
(11) leg (=thigh).. ..	24
(12) foot (=knee) .. ..	4
(13) palm (from thumb to forefinger) .. ..	16
(14) arm .. ..	24
(15) elbow .. ..	2
(16) forearm .. ..	12
(17) palm (up to the tip of middle-finger) .. ..	12
(18) breadth of face .. ..	11
(19) width of neck .. ..	8
(20) width round the arm-joint .. ..	8
(21) width of knee .. ..	8
(22) shoulder .. ..	5
(23) chest between the armpits .. ..	20
(24) width (breadth) at the mid-belly .. ..	15
(25) width at buttocks .. ..	17
(26) width of the loins .. ..	19
(27) width at the root of the thigh .. ..	10½
(28) width at the root of the leg .. ..	7½
(29) width at the middle of the leg .. ..	6
(30) breadth at the middle of the leg .. ..	4
(31) knee-tube .. ..	1½
(32) ankle .. ..	1½
(33) heel breadth .. ..	4½
(34) breadth of prapada (forepart of the foot) .. ..	17 (?)
(35) breadth of the palm ( ? sole) .. ..	5
(36) length of the largest toe .. ..	4
(37) breadth of the largest toe .. ..	2
(breadth of nails is half of their length)	
(38) length of fore-toe (=thumb) .. ..	4
(39) breadth of fore-toe .. ..	1 (?) 2)
(40) middle toe (breadth 7 yavas) .. ..	3
(41) fourth toe (breadth 6 yavas) .. ..	2½
(42) little toe (breadth 5 yavas) .. ..	2
(breadth of nails is half the breadth of the fingers)	
(43) width at the middle of the arm .. ..	7
(44) width at the elbow .. ..	7

	<i>Parts</i>
(45) width at the forearm .. .. .	4
(46) width at the wrist .. .. .	3
(47) breadth at the root of the palm .. .. .	6
(48) breadth at the forepart of the palm .. .. .	4
(49) length of the palm .. .. .	6
and the remainder is the middle-fingers (?)	
(50) forefinger .. .. .	5½
(51) ring-finger .. .. .	5½
(52) little finger .. .. .	3½
(53) breadth of thumb .. .. .	1
(54) breadth of forefinger .. .. .	6 yava
(55) breadth of middle-finger .. .. .	7 "
(56) breadth of ring-finger .. .. .	6 "
(57) breadth of little finger .. .. .	4 "

Fingers are made tapering from the root towards the tip. The forepart of the nails is  $\frac{1}{2}$  or  $\frac{1}{4}$  more than their length and their breadth at the tip is one, two, or three yavas. The thumb is divided into two parts (parvan) and the other fingers into three parts (parvan). The line of wisdom and such other lines are drawn on the palm. The eyebrow should extend from the eye-line to the hair (near the ear).

(58) Length of eye .. .. .	2
(59) breadth of eye .. .. .	1
(60) length of ear .. .. .	4
(61) drum of ear .. .. .	4
(62) breadth of ear .. .. .	2

the rest should be as in the (uttama) daśa-tāla system :

Navatālottamaṁ proktaṁ ścaṣaṁ cha daśa-tālavat | (64).

In the intermediate type of the nine-tāla system the whole length is divided into 108 equal parts :

	<i>Parts</i>
(1) Head .. .. .	3
(2) neck .. .. .	3
(3) knee .. .. .	3
(4) foot .. .. .	3
(5) face .. .. .	12
(6) chest .. .. .	12
(7) belly .. .. .	12

					<i>Parts</i>
(8) loins	..	..	..	..	12
(9) thigh	..	..	..	..	24
(10) leg	..	..	..	..	24
(11) arm	..	..	..	..	24
(12) (from arm) forearm (including middle-finger)	..			..	18
(13) largest toe (up to heel)=face			..	..	12
(14) foot	..	..	..	..	15

the rest should be discreetly made.

In the smallest type of the ten-tāla system the whole height is divided into 116 equal parts (*M.*, LIX, 67-100) :

					<i>Parts</i>
(1) Head (from crown to hair-line in the forehead)	..			..	4
face (comprising)	..	..	..	..	12
(2) thence to the eye-line (i.e., forehead)				..	4½
(3) thence to the tip of the nose			..	..	4
(4) thence to the chin	..	..	..	..	3½
(5) neck-joint	..	..	..	..	1½
(6) neck	..	..	..	..	1
(7) thence to heart	..	..	..	..	12
(8) thence to navel	..	..	..	..	12
(9) thence to sex organ	..	..	..	..	12
(10) thigh (from below sex organ)	..			..	25
(11) knee	..	..	..	..	4
(12) leg	..	..	..	..	25
(13) foot	..	..	..	..	4
(14) length of foot from heel to largest toe				..	16½
(15) length of arm below the line of windpipe (glottis)				..	25
(16) length of elbow	..	..	..	..	2
(17) length of forearm	..	..	..	..	19
(18) length of palm (up to the tip of middle-finger)	..			..	12½
(19) breadth of face	..	..	..	..	11½
(20) width of neck	..	..	..	..	8½
(21) width of arm	..	..	..	..	8½
(22) width of knee	..	..	..	..	8½
(23) width of arm by root, elbow, wrist	..			6, 6, 1½	
(24) length of shoulder	..	..	..	..	20½
(25) width of the mid-belly	..	..	..	..	15½
(26) width of the buttocks	..	..	..	..	18½
(27) breadth of the loins	..	..	..	..	19
(28) width at the root of thigh	..			..	12½

	<i>Parts</i>
(29) width of the knee-(cap) .. .. .	6½
(30) breadth or width of knee-tube .. .. .	4
(31) breadth of ankle .. .. .	5
(32) prapada (tip of the toes) .. .. .	6
(33) length of largest toe .. .. .	4
(34) length of fore-toe .. .. .	4
(35) length of other toes (half a part less) .. .. .	3½
and their breadth or width is the same (? half of their length)	
(36) breadth of elbow .. .. .	6½
(37) breadth of forearm .. .. .	5
(38) breadth of wrist .. .. .	4
(39) breadth of palm .. .. .	5
(40) length of palm .. .. .	7
(41) length of middle-finger .. .. .	5½
(42) length of forefinger .. .. .	5
(43) length of ring-finger .. .. .	5
(44) length of little finger .. .. .	4½
(45) length of thumb .. .. .	4½
(46) length of ear .. .. .	4½
(47) height of ear-drum .. .. .	4½

the rest not specified here should be as in case of the largest type of ten-tāla system.

In the intermediate type of the ten-tāla system the whole height of the image (of a female deity) is divided into 120 equal parts (*M.*, LXVI, 2-78) :

	<i>Parts</i>
(1) Head (from crown to hair-line on the forehead)	4
(2) forehead (up to eye-line) .. .. .	5
(3) nose (up to the tip) .. .. .	4
(4) thence to chin .. .. .	3½
(5) neck-joint .. .. .	½
(6) neck .. .. .	4
(7) from windpipe (glottis) to heart .. .. .	13
(8) thence to the limit of navel .. .. .	13
(9) thence to sex organ .. .. .	13
(10) thigh below sex organ .. .. .	26
(11) knee .. .. .	4
(12) leg .. .. .	26
(13) foot .. .. .	4

	<i>Parts</i>
(14) length of foot (from heel to the tip of largest toe)	16
(15) length of arm below the line of windpipe (glottis)	26
(16) elbow .. .. .	2
(17) forearm .. .. .	20
(18) palm (up to the tip of middle-finger) ..	13
(19) middle-finger .. .. .	6
and palm proper the remainder .. ..	7
(20) thumb .. .. .	4
(21) forefinger .. .. .	5½
(22) ring-finger .. .. .	5½
(23) little finger .. .. .	4
(24) breadth of face up to ear .. ..	12
(25) breadth of face (below this) from ear to ear	11
(26) breadth of neck (at root, middle, and top) ..	7
(27) breadth of chest (between armpits) ..	15
(28) width of each breast .. ..	9½
(29) height of breast .. ..	4½
(30) distance between breasts (nipples) ..	1
(31) width of the nipple .. ..	2
(32) breadth (below the breasts) by the heart ..	13
(33) width of mid-belly .. ..	11
(34) breadth (below this) by the navel ..	13
(35) breadth (of lower belly) below navel ..	15
(36) width of buttocks .. ..	20
(37) width of loins .. ..	24
(38) width at the root of each thigh .. ..	13
(39) width by the mid-thigh .. ..	12
(40) width at the fore-part of the thigh ..	9
(41) width of knee .. ..	7
(42) width at the root of leg .. ..	6
(43) width at the mid-leg .. ..	5
(44) breadth of knee-tube .. ..	4
(45) breadth of ankle .. ..	4½
(46) width of sole .. ..	4
(47) breadth of sole at the fore-part ..	5
(48) breadth of heel .. ..	4
(49) length of largest toe .. ..	4
(50) length of fore-toe .. ..	4
(51) length of middle-toe .. ..	3½
(52) length of fourth toe .. ..	3



	<i>Parts</i>
(53) length of little toe .. .. .	2
(54) width (breadth) of largest toe .. .. .	2
(55) width (breadth) of fore-toe .. .. .	1(=8 yavas)
(56) width (breadth) of middle toe .. .. .	7 "
(57) width (breadth) of fourth toe .. .. .	6 "
(58) width (breadth) of little toe .. .. .	5 "
(59) width at the root of arm .. .. .	3
and width of knee .. .. .	10
(60) width at mid-arm .. .. .	6½
(61) width at fore-part of arm .. .. .	6
(62) width at elbow .. .. .	5½
(63) width at root of forearm .. .. .	5
(64) width at middle of forearm .. .. .	4½
(65) width at fore-part of forearm .. .. .	4
(66) width at wrist .. .. .	3
(67) width (breadth) of the palm (from thumb to little finger) .. .. .	5
(68) width (at the root) of the fore finger .. .. .	6 yavas
(69) width (at the root) of ring-finger (same) .. .. .	6 "
(70) width (at the root) little finger .. .. .	5½ "
(71) width (at the root) of middle-finger .. .. .	7 "
Eyebrows are placed between forehead and eyes.	
(72) Breadth of eye .. .. .	1
(73) length of eye .. .. .	3
(74) breadth of nose up to end of the tip .. .. .	2
(75) width of nose at the middle .. .. .	1
(76) width of nose at the root .. .. .	½
(77) distance between the eyes .. .. .	1½
(78) distance between the eyebrows .. .. .	1
(79) length of eyebrow .. .. .	9
(80) breadth of eyebrow .. .. .	2
The interior of the eye is divided into three (equal) parts (as before), of which the black sphere is one part; the rest of the detail is stated to be found in the list of the largest type of the ten-tāla systems.	
(81) Breadth and height of nostril (each) .. .. .	½
(82) width of face (up to the corner) .. .. .	4
(83) width of upper lip .. .. .	5 yavas
(84) width of lower lip .. .. .	6 "
(85) length of lip .. .. .	..

				<i>Parts</i>
(86) ear=mid-cyebrow	..	..	..	( ! )
(87) height of ear	..	..	..	4
(88) length of the drum of ear	..	..	..	4
(89) depth (of the drum of ear)	..	..	..	$\frac{1}{2}$
(90) width of sex organ	..	..	..	4
(91) length of sex organ	..	..	..	7
(92) upper breadth of sex organ (=length)	..	..	..	7

The rest should be as in the case of the largest type of the ten-tāla system.

In the largest type of the ten-tāla system the whole height of a male person (god) is divided into 124 equal parts (*M.*, LXV, 2-179) :

				<i>Parts</i>
(1) Head (from crown to hair-line on the forehead)				4
(2) face (from hair-line on the forehead to chin)	..	..	..	13
(3) neck	..	..	..	$4\frac{1}{2}$
(4) neck to heart (chest)	..	..	..	$13\frac{1}{2}$
(5) heart to navel	..	..	..	$13\frac{1}{2}$
(6) navel to sex organ	..	..	..	$13\frac{1}{2}$
(7) thigh from below sex organ	..	..	..	27
(8) knee	..	..	..	4
(9) leg	..	..	..	27
(10) foot	..	..	..	4

The length of face is divided into three parts, head to eye-line, eye-line to lip-line, lip-line to windpipe-line.

(11) Length of arm from (below the line of) windpipe				27
(12) elbow	..	..	..	2
(13) forearm (extending to wrist-joint)	..	..	..	21
(14) length of palm (up to the tip of middle-finger)				$13\frac{1}{2}$
comprising (a) palm proper	..	..	..	7
(b) middle-finger	..	..	..	$6\frac{1}{2}$
(15) length of foot	..	..	..	17
(16) largest toe (from heel)	..	..	..	$4\frac{1}{2}$
its breadth	..	..	..	$2\frac{1}{2}$
its nail	..	..	..	1 $\frac{1}{2}$
breadth of nail	..	..	..	$\frac{3}{4}$

The nail is made circular and its fore-edge is fleshy and one part in extent.

(17) Fore-toe	..	..	..	4 less
				1 yava
its breadth	..	..	..	1 and
				1 yava

					<i>Parts</i>
(18) middle toe .. .. .	..	..	..	..	3½
its breadth .. .. .	..	..	..	..	1½
(19) fourth toe .. .. .	..	..	..	..	3 plus 1 yava
its breadth .. .. .	..	..	..	..	1 minus 1 yava
(20) little toe .. .. .	..	..	..	..	2½
its breadth .. .. .	..	..	..	..	½ plus 1 yava
Their nails are half of their respective breadths.					
(21) The middle line from ankle to the tip of sole ..	..	..	..	..	8 and 6 yavas
(22) from this line to the root of heel ..	..	..	..	..	4
breadth of heel .. .. .	..	..	..	..	5 and 1 yava
(23) from side to heel .. .. .	..	..	..	..	3½
(24) root of heel .. .. .	..	..	..	..	6
(25) width of mid-sole (below ankle) ..	..	..	..	..	6 and 6 yavas
(26) breadth of sole (at the fore-part) ..	..	..	..	..	6
(27) its thickness .. .. .	..	..	..	..	3
(28) height of the mid-foot .. .. .	..	..	..	..	4½
The toes have two parts (parvan).					
(29) Breadth of ankle .. .. .	..	..	..	..	5½
(30) breadth of the tube (above) .. .. .	..	..	..	..	4½
(31) breadth at the middle of leg .. .. .	..	..	..	..	6½
(32) width at the root of leg .. .. .	..	..	..	..	8
(33) width of knee .. .. .	..	..	..	..	9
(34) width of mid-thigh .. .. .	..	..	..	..	12
(35) width at the root of thigh .. .. .	..	..	..	..	13½
(36) width of loins .. .. .	..	..	..	..	20
(37) width of buttocks (above) .. .. .	..	..	..	..	18½ (†)
(38) width of mid-belly .. .. .	..	..	..	..	18½
(39) width at the heart .. .. .	..	..	..	..	16
(40) width by the chest .. .. .	..	..	..	..	18½
(41) distance between the armpits .. .. .	..	..	..	..	21
(42) breadth above this .. .. .	..	..	..	..	22
(43) breadth between the arms .. .. .	..	..	..	..	24½
(44) breadth of neck .. .. .	..	..	..	..	9
(45) breadth of face in its fore-part .. .. .	..	..	..	..	12

	<i>Parts</i>
(46) breadth of head by the hair-line on the forehead	10
From the hair-line on the forehead to the eye-line there are two (equal) parts, one of which is the forehead, and the remainder is the eye-part. Between the forehead and the eyes, the places for eyebrows are left.	
(47) Length of eyebrow .. .. .	5
(48) breadth of eyebrow .. .. .	2½
The breadth at the middle is half of this and the brows taper from root to the other end.	
(49) Distance between two brows .. .. .	½ and 6 yavas
(50) length of eye .. .. .	3
(51) breadth of eye .. .. .	1
(52) distance between two eyes .. .. .	2
The interior of the eye is divided into three parts of which the black sphere is one part and the remainder is the white sphere. The shiny sphere within the black sphere is one part. The sight (retina) proper is situated within the shiny sphere. The upper and lower coverings (lids) of the interior of the eye are each two parts. The eyes are shaped like the fish and the brows like a bow.	
(53) Length of ear .. .. .	..
(54) drum of ear .. .. .	4½
(55) fore-part of ear (=mid-brow) .. .. .	1½
(56) ear-hole, its length .. .. .	2
and breadth .. .. .	1
(57) distance between the drums .. .. .	2
(58) depth (befitting the ear) .. .. .	1
(59) breadth of ear .. .. .	2½
The rest is left to the choice of the skilful.	
(60) Distance from eye to ear .. .. .	7
(61) width of nose .. .. .	2½
(62) tip of nose .. .. .	1
(63) breadth of nostril .. .. .	½
(64) length of nostril .. .. .	6 yavas
(65) hole of nostril .. .. .	½
(66) its breadth .. .. .	5 yavas
(67) height of nose-tip (pushkara or four-faced part)	1
(68) breadth of nose-tip .. .. .	2
(69) breadth of the middle of nose .. .. .	3

	<i>Parts</i>
(70) breadth at the root of nose .. ..	1½
(71) height of nose .. ..	1½
(72) height of nose (from bottom to tip) .. ..	2
(73) tip (from below bottom) .. ..	4 yavas
(74) drip .. ..	1 „
(75) breadth .. ..	3 „
(76) circumference (above this) .. ..	1 „
(77) breadth of upper lip below this .. ..	6 „
(78) lower lip .. ..	1
(79) width of upper lip .. ..	4
(80) length of crescent-shaped lower lip .. ..	3½
(81) three-faced part (trivaktra), length and breadth .. ..	2 each
(82) circumference (above) .. ..	
Teeth numbering 32 are in both lower and upper jaws.	
(83) Chin below the lower lip .. ..	1
(84) length of jaw .. ..	3½
(85) from this (jaw) to ear-joint .. ..	10
(86) height of drip between the jaws .. ..	1
(87) breadth of semi-circular jaw .. ..	1½
(88) goji (nose bottom) from jaw .. ..	1 and 2 yavas
(89) mid-neck (from jaw to its root) .. ..	2
(90) its projection .. ..	1
(91) the eye on the forehead (third eye) ¼ or ⅓ part of other eyes. There should be 98 eye-lashes ; the hairs on the neck and face should be discreetly made.	
	<i>Parts</i>
(92) Width at mid-arm .. ..	8 and 2 yavas
(93) width of elbow .. ..	7
(94) width at mid-forearm .. ..	5 and 1 yava
(95) width of wrist .. ..	3½
(96) breadth at the root of palm .. ..	7
(97) breadth of mid-palm .. ..	6½
(98) breadth of fore-palm .. ..	5 and ½ yava
(99) back of palm up to wrist .. ..	6½
thence the length of the fingers should be proportionate as stated before.	
(100) Length of ring-finger and of middle-finger .. ..	4½ each

	<i>Parts</i>
(101) length of forefinger .. ..	5
(102) length of thumb .. ..	4
(103) length of little finger .. ..	4
(104) width at the root of thumb .. ..	1½
(105) width at the root of forefinger .. ..	1
(106) width at the root of ring-finger .. ..	1
(107) width at the root of middle finger .. ..	¾
<p>The width of (tapering) fingers at their tips is ¾ or one-fourth less than at the root. The width of the nails is ¾ of the breadth of the respective finger tips, and the length of the nails is ½ greater than their width, and the fore-parts of the nails measure two yavas. The four fingers (beginning with the fore-finger) are each divided into three parts and the thumb into two parts.</p>	
(108) The portion between the roots of forefinger and thumb .. ..	3
(109) its thickness .. ..	2
(110) thence to wrist .. ..	4½
(111) thickness of the portion below the thumb .. ..	2½
(112) its width .. ..	3
(113) breadth of heel .. ..	4
(114) its thickness .. ..	3
(115) its fore-part .. ..	1 and 2 yavas
(116) interior of palm .. ..	2
(117) its width .. ..	4 yavas

The palm is lined with the five marks like of lotus, trident, couch, disc., etc. And the rest regarding the hand should be discreetly made by the wise artist.

**Measurement by the back-side :**

(118) width at the back of head .. ..	9
(119) thence to the end of ear .. ..	13½
(120) thence to the end of nose .. ..	13½
(121) shoulder (above the line of windpipe) from the neck-joint .. ..	4
(122) from neck-joint to hump .. ..	5
(123) thence to the line of buttocks .. ..	27
(124) thence to anus .. ..	13½
(125) breadth to the left of it .. ..	21
(126) width of the back of loins .. ..	1;

	<i>Parts</i>
(127) width of the back or middle-body (madhya-kāya)	
above this .. .. .	.. 17
(128) distance between the breadth above this	.. 21
(129) distance between the arm-pits .. .. .	.. 27
(130) drip of the back-bone .. .. .	.. 1
(131) breadth of the loins-joint connected with the back-bone .. .. .	.. 2
Thence should be measured the belly :	
(132) Width (breadth) of ribs-plank .. .. .	.. 12
(133) distance between ribs-planks .. .. .	.. 4
(134) height from ribs-plank to shoulder .. .. .	.. 5½
(135) the portion between the breast and back-bone (brihati) .. .. .	.. 7
(136) its length (up to armpits) .. .. .	.. (?)
(137) brihati up to breast limit .. .. .	.. 16½
(138) breadth of loins line .. .. .	.. 13
(139) projection of the root of thigh .. .. .	.. 5
(140) width of perfectly round or spherical balls .. .. .	.. 9
(141) width at the back of perfectly round breast .. .. .	.. 2
(142) drip or depth of windpipe .. .. .	.. 1 yava
(143) drip or depth of heart .. .. .	.. 1
(144) distance between the limit of breasts .. .. .	.. 13½
(145) distance between windpipe and armpit .. .. .	.. 13½
(146) depth of navel .. .. .	.. 2 yavas
The navel-pit is made circular.	
(147) Length of lower belly from navel to loins .. .. .	.. 6
(148) lower belly from navel to where cloth is attached to body .. .. .	.. 4
(149) height from loins to the root of sex organ .. .. .	.. 7½
(150) breadth of sex organ at the back .. .. .	.. 4
(151) thence (? loins) the length of sex organ .. .. .	.. 12
(152) length of testicle .. .. .	.. 2½
(153) breadth of testicle .. .. .	.. 2½
(154) breadth of sex organ .. .. .	.. 1
The rest is left to the discretion of the artists.	

Śeṣhaṃ yuktito nyaset—(*M.*, LXV, 179.)

This largest type of the ten-tāla measure is used in measuring the images of Brahmā, Viṣṇu, Rudra, and such other gods (*M.*, LI, 29 ; XLV, 184-185) and of the statues of the devotees of the Sāyujya class (*M.*, LIX, 12).

These rules are for the general guidance, there is no restriction in altering them for aesthetic reasons by not more than one part :

Tad evādhika-hīnaṁ vā śobhārthaṁ chaika-mātrakam ।

Ukta-mānāṅgakaiḥ sarvaiḥ tatra doṣho no vidyate ।

Tad-ūrdhve'dhika-hīnaṁ chet sarva-doṣa-samudbhavam ।

Tasmāt pariharech chhīpi pratimānaṁ tu sarvadā ।

(M., LXV, 180-183.)

(2) See *Aṁśumadbhedā* of Kāśyapa (MS. Egg. 3148, 3012; fol. 251, different kinds of the tāla measures).

(3) Tālaḥ smṛito madhyamayā gokarṇaś chāpy-anāmayā ।

The distance between the tips of the fully stretched thumb and the middle-finger is called Tāla.

(*Brahmāṇḍa-Purāṇa*, Part 1, 2nd *Anuśaṅga-pāda*, Chap. VII, v. 37.)

(4) Tāla is the distance between the tips of the fully-stretched thumb and the middle-finger.

(*Suprabhedāgama*, XXX, 22, see under ANGULA.)

(5) *Bimbamāna* (British Museum, MS. no. 558-592) :

Illustration in minute detail of the largest type of the ten-tāla measure (vv. 71-72).

Description of the plumb-lines and the horizontal measurement of the idol (vv. 73-91).

The measurement of the idol when it is made in the sitting posture, such as *Yogāsana* (vv. 92-122) and the recumbent posture (vv. 123-138).

In an appendix are given the rules regarding the objects to be measured in twelve-tāla measures :

One (eka) tāla is used for measuring the *vandhukā*, probably misread for *kabandha*, a headless trunk, also a class of *rākshasa* or demon whose head and thighs were forced into the body by Indra and reduced to long arms and a huge mouth in the belly.' (See nos. 5, 6.)

Two (dvi) tāla is used for measuring the birds.

Three (tri) tāla " " " " *kinnaras* (mythical beings with human body and horse's head).

Four (*chaturthaka*) tāla is used in measuring *bhūtas* (goblins).

Five (*pañcha*) tāla " " " *Gaṇeśa* (a mythical deity with human body and elephant's head).

Six (*ṣaṭ*) tāla is used for measuring the tiger.

Seven (*sapta*) tāla " " " " *yakshas* (demi-gods).

Eight (*aṣṭa*) tāla " " " man (male and female).

Nine (*nava*) tāla " " " *dānavas* (demons).

Ten (*daśa*) tāla " " " superhuman beings and Buddha.



Eleven (ekādaśa) tāla is used for measuring gods.

Twelve (dvādaśa) tāla is used for measuring rākshasas (fiends).

Cf. Brahmādi-lokeśvara-deva-devaṃ surāsure-dānava-rākshasaṃ  
cha yakshaṃ cha nāga-garuḍaṃ cha nā-kinnaraṃ bhutaṃ cha  
kumbhāṇḍa-nara-svarupaṃ vyāghraṃ chatuṣ-pāda-vihaṅga-  
mādi-sarvaṃ tu dirghāyata-vandhukādi-tāla-pramāṇaṃ bhuvā-  
natrayoktam ।

This is followed by the details of the twelve tāla measures quoted above.

The next appendix gives the dhyanas (features) of the eight deities (aṣṭa-nātha).

(6) *Suprabhedāgama* (xxxiv, 30-34).

Īśvaraḍi-chatur-murtiṃ daśa-tālena kārayet ॥

Śaktināṃ anya-devānāṃ nava-tālaṃ prakṛtitaṃ ।

Divyam ārsha-manuṣvāṇāṃ aṣṭa-tālena kārayet ॥

Rakshasāṃ asuraṇāṃ cha sapta-tālena ihochyate ।

Shaṭ-tālenaiva gandharvāṃ pañcha-tālena vighṇakam ॥

Vāmanāt (-naṃ) pañcha-tālais tu chatuṣ-tālais tu bhūtakān ।

Tritālaṃ kinnaraṇāṃ tu matsyānāṃ tu dvi-tālakam ॥

Eka-tālas tu kuṣmāṇḍāt (?) piśācha viṃśad-aṅgulāḥ ।

Sthūla-sūkṣma-prabhedāṃs tu tāla-bhedam ihochyate ॥

Measures of the ten tāla of three types each (*Suprabhedāgama* xxx, 31-40) :

Pratimāyās tad-utsedhaṃ tāla-daṇḍena bhājayet ॥ (31)

Chatur-viṃśaci. chhataṃ chaiva uttamaṃ daśa-tālakam ।

Viṃśaci chhataṃ cha madhyaṃ tu kanyasaṃ shoḍaśādhikam ॥

(32).

Dvā-daśādhikam evam yan nava-tālottamaṃ bhavet ।

Aṣṭau śataṃ chatuṣ śataṃ madhyamaṃ kanyasaṃ tathā ॥ (33)

Śataṃ shaṇ-ṇavatiś chaiva navaty-uttara-kara-dvayam ।

Aṣṭa-tālam idaṃ proktam tri-vidhaṃ purvaḥ-paddhatiḥ । (34)

Ety-evam bhāga-hīnaṃ syād eka-tālaṃ tam eva hi ।

Measurement of the face :

Trayo-daśārdham mukhaṃ jyeshṭhaṃ trayo-daśaṃ tu madhyamaṃ ॥ (35)

Tad-dvā-daśārdham adhamam uttamat(-r)daśa-tālake ।

Nava-tālottame chaiva mukhaṃ vai dvā-daśāṅgulam ॥ (36)

Ardhārdhāṅgula-hīnena madhyamārdhamam uchyate ।

The statues measured in these tāla measures (cf. above xxxiv, 30-34) :

Tri-vidhā daśa-tālena tri-murtināṃ tu kṛtitaḥ ॥ (37)

Tri-vidhaṃ nava-tālena devānāṃ yositāṃ api ।

Ashta-tālena martyānām sapta-tālena rakshasām || (38)

Shaṭ-tālena tu gandharvān pañcha-tālo gaṇādhipaḥ |

Vāmanasya tathaiva syāch chatus-tālās tu bhutakālḥ || (39)

Tri-tālaṁ kinnarānām tu matsyānām tu dvi-tālakam |

Anujānām tathaikaṁ syāt piśāchānām tu vimśatiḥ || (40)

(7) *Matsya-Purāṇa* (Chap. CCLVIII, v. 19) :

Svakiyāṅguli-mānena mukhaṁ syād dvā-daśāṅgulam |

(8) *Bṛihat-Saṁhitā* (LVIII, 4) :

Svair aṅgula-pramāṇair dvā-daśa-vistīrṇam āyatam cha mukham |

Naganajitā tu chatur-daśa-dairghyeṇa drāvidaṁ kathitam ||

According to one's own aṅgula (finger-breadth) the face of his own statue is twelve aṅgulas long and broad. But according to (the architect) Nagnajit it should be fourteen aṅgulas in the Drāvīda style.

The commentary quotes Nagnjit in full :

Vistīrṇam dvādaśa-mukhaṁ dairghyeṇa cha chatur-daśa :

Aṅgulāni tathā kāryam tan-mānaṁ drāvidaṁ smṛitam ||

The face shall be 12 aṅgulas broad and 14 aṅgulas long ; such a measure is known as Drāvīḍa (i.e. this is the Drāvīḍa style of measurement).

(*Bṛihat-Saṁhitā*, LVIII, 4 ; J. R. A. S., N. S.,  
Vol. VI, p. 323, note 3.)

(9) See *The Elements of Hindu Iconography* by T. A. Gopinatha Rao, Vol. 1, Appendix B.

(10) See *Some Hindu Silpa Śāstras* in their relation to South Indian Sculpture by Mr. W. S. Hadaway (Ostasiatische Zeitschrift, April-June, 1914, vol. II, no. I).

(11) See *Iconometry* by T. A. Gopinath Rao (*Archaeological Survey of India*, Memoir, no. 3, 1920) and compare : ' In Appendix B, the author (Gopinatha Rao) gives a detailed description of the uttama-daśatāla measure to be used in the making of images, and shows that the formal, apparently mechanical, rules for construction followed by Indian artists work out in practice as the adequate expression of æsthetic principle. The same subject has been treated on broader lines . . . , by Mr. W. S. Hadaway (see above), who is himself a worker in metal, with practical knowledge of the application of the rules. (The war, unfortunately, has prevented the author from continuing his valuable study, as he had hoped to do). '

' The Hindu image-maker or sculptor,' Mr. Hadaway observes, ' does not work from life, as is the usual practice among Europeans, but he has, in place of the living model, a most elaborate and beautiful system of proportions, which he uses constantly, combining

these with those observations and study of natural detail. It is, in fact, a series of anatomical rules and formulæ, of infinitely more practical use than any European system which I know of, for the Indian one treats of the actual proportion and of the surface form, rather than the more scientific attachments of muscles and the articulation of bones.'

'There is in the Hindu system nothing complicated or difficult to understand or remember, but like every other canon of artistic proportion, these methods are no more capable of producing works of art in unskilled hands than are any other aids or methods . . . These śāstras are the common property of Hindu artisans, whether of northern or southern India.'—Mr. V. A. Smith.

(Architecture and Sculpture in Mysore,  
*Ind. Ant.*, Vol. XLIV, pp. 90-91.)

**TITHI**—One of the six *varga*-formulas (*see* details under **SHAP-VARGA**) for ascertaining the right dimensions for an architectural object.

**TILAKA**—A mark made on the forehead and between the eyebrows either as an ornament or as a sectarian distinction of an image.

(*M.*, VII, 160, LI, 41.)

*Cf.* Tilaka-kshudra-nāsi-yuktaṁ toraṇaiś cha amanvitam |

(*Kāmikāgama*, I, 93.)

**TILAMAKA**—A channel, a watercourse, a pipe.

(1) Viditam astu bhavatām . . . yushmadīya-grāmāṇām upakārāya  
yo'sau tilamaka ānito'bhūt pratisaṁskārābhāvād vinasṭam ud-  
vikshya . . . yushmad-grāmāṇām evopakārāya pratisaṁskṛitaḥ |

'Be it known to you that, seeing the *watercourse*, which the illustrious lord and great king Aṁśuvarman led to your villages for your benefit, destroyed through want of repairs (we being addressed by the feudal chief Chandravarman, have presented it to him; that he, with our permission) has repaired it for the benefit of your villages.'

'The word, *tilamaka*, is not found in any dictionary. But it seems certain, from the context, that it must be some kind of *watercourse*. Probably it denotes a channel which leads the water from the hillside over the fields which rise in terraces one above the other.'—Pandit Bhagvānlāl Inderjit and Dr. Bühler.

(Inscriptions from Nepal, no. 9, Jishnugupta's *Inscrip.*,  
line 6 f., *Ind. Ant.*, Vol. IX, p. 172, note 30.)

(2) Devena yathāyam tilamako bhabatam anyesh(ए)āṁ chopakā-rāy ।

(Inscription from Nepal, no. 10, line 14, p. 173.)

(3) Tilamakās cha saptadhā vibhajya paribhoktavyaḥ ।

‘The watercourse is to be used by dividing it into seven parts.’

(*Ibid.*, no. 14, line 10, p. 177.)

**TIRTHA** (*see* TIRTHAṆKARA)—A stairs of a landing place, a shrine, a holy place, a Jain teacher.

**TIRTHAṆKARA**—A path-maker, the foundation of a religious or philosophical school, a Jain arhat or saint.

The twenty-four Jain saints or apostles—(*M.*, LV, 90.)

*Cf.* Fergusson, *Hist. of Ind. and East. Arch.* (p. 748) :

<i>Name</i>	<i>Distinction sign</i>
1. Ādinātha .. ..	Bull.
2. Adjitanātha .. ..	Elephant.
3. Śambhunātha .. ..	Horse.
4. Abhayānandanātha .. ..	Monkey.
5. Sumatinātha .. ..	Chakwa (red goose).
6. Supadmanātha .. ..	Lotus.
7. Supārśvanātha .. ..	Swastika.
8. Chandraprabha .. ..	Crescent moon.
9. Pushpadanta .. ..	Crocodile.
10. Śitalanātha .. ..	Tree or flower.
11. Śrī-Amśanātha .. ..	Rhinoceros.
12. Vasupadya .. ..	Buffalo.
13. Vimalanātha .. ..	Boar.
14. Anantanātha .. ..	Porcupine.
15. Dharmmanātha .. ..	Thunderbolt.
16. Śāntanātha .. ..	Antelope.
17. Kunthanātha .. ..	Goat.
18. Aranātha .. ..	Fish.
19. Mallinātha .. ..	Pinnacle.
20. Munisuvrata .. ..	Tortoise.
21. Naminātha .. ..	Lotus with stalk.
22. Neminātha .. ..	Shell.
23. Pārśvanātha .. ..	Snake.
24. Vardhamāna or Mahāvira .. ..	Lion.

For reference to their images *see* JINA(ka).

**TUNGA** (*see* UTSEDHA)—Height, plinth, vault, arched roof.

(*M.*, XIX, 120.)

**TULĀ** (*see* under **STAMBHA**)—A balance, a moulding of the column, a month, a beam.

(1) *Stambha-samaṁ bhūhulyaṁ bhāra-tulānām upary-upary-āsām* |

*Bhavati tulopatulanām ūnaṁ pādēna pādēna* ||

(*Bṛihat-Saihitā*, LI, 30 : *see* Kern's Transl., *J. B. A. S.*, N. S., Vol. VI, p. 285.)

A moulding of the entablature :

(2) *Mahā-bhāra-tulā kāryā balikordhve viśhataḥ* |

*Tulā-vistāra-tārochchā jayantī syāt tulopari* ||

*Tulā-balikayor madhye dvi-daṇḍam athavā punaḥ* ||

(*Kārikāgama*, LIV, 13, 16.)

(3) A member of a column (*Suprabhedāgama*, XXXI, 108, 105-107, *see* under **STAMBHA**).

(4) The name of a month (*M.* VI, 32), the beam of a balance (*M.*, XII, 163), a balance (*M.*, L, 48, 172-195.)

**TULĀ-DANḌA**—The horizontal rod of a balance, the beam, its synonyms.

*Tulādanḍam jayantī cha phalakā-paryāya-vāchakāḥ* |

(*M.*, XVI, 48, etc.)

**TULĀ-BHĀRA**—An article of furniture used as a hanging balance.

*Bhupānām cha tulā-bhāra-tulā-lakṣhaṇam uchyate* |—(*M.*, L., 48.)

In connexion with the pavilion:

*Evam tu nṛipa-harmye tu tulā-bhāram tu yogyakam* |

(*M.*, XXXIV, 287.)

**TAILA-MANJŪSHIKĀ**—An oil-pot, used as an article of furniture.

(*M.*, L, 144 : *see* under **BHŪSHANA**.)

**TORAṆA**—An arch, a canopy, a gate-way of a temple or stūpa, a peg, a mechanical arrangement of blocks of any hard material disposed in the line of some curve and supporting one another by their mutual pressure. It is employed both as an architectural member, as well as an ornament to buildings, thrones, pedestals for an image, boundary walls, and over gate-ways, cars and chariots.

In modern architectural treatises arches are considered in three aspects, namely, (i) form, (ii) the mode in which their parts are constructed, and (iii) the thrust they exert.

In respect of their form arches are either straight, triangular, semi-circular or circular. The *Mānasāra* adds another form called bow-shape which is apparently a little wider than the

semi-circle. 'The investigation of the equilibrium of arches' as truly said by Mr. Gwilt (*Engel.*, article 1353), 'by the laws of statics does not appear to have at all entered into the thoughts of the ancient architects. Experience, imitation and a sort of mechanical intuition seem to have been their guides. They appear to have preferred positive solidity to nice balance and the examples they have left are rather the result of art than of science. Vitruvius, who speaks of all the ingredients necessary to form a perfect architect (*see* under *STHĀPATI*) does not allude to the assistance which may be afforded in the construction of edifices by a knowledge of the resolution of forces nor the aid that may be derived from the study of such a science as descriptive geometry, though of the latter it seems scarcely possible the ancients could have been ignorant, seeing how much it must have been (practically, at least) employed in the construction of such vast buildings as the Coliseum, and other similarly curved structures, as respects their plan.'

(2) 'Whoever invented the true or radiating arch, the Romans were the first who applied it as a regular and essential architectural feature, and who at the same time introduced its complements, the radiating dome, into architectural construction at what period it is not now known.' (Fergusson: *Hist. of Ind. and East. Architecture*, p. 212.) But we have got clear references to it in the *Rāmāyaṇa* (*see* below) which must be placed before sixth or seventh century B C.

(3) *Mānasāra*, Chap. XLVI (named Toraṇa) 1-77 :

The toraṇa is an ornament (bhūṣhaṇa) for all kinds of thrones (line 1), as well as for temples and royal palaces (line 30). These arches admit of various forms. They may be circular, semi-circular, triangular (? hexagonal, tri-yugma), bow-shaped, or of any other desirable forms (lines 31-32, 33-36). The directions for making these arches as well as the measurements of their different parts are given in detail (lines 3-29, 45-76). With regard to ornaments and decorations, arches are divided into four kinds, technically called, Patra-toraṇa (leaf-arch), Pushpa-toraṇa (flower-arch), Ratna-toraṇa (jewelled arch), and Chitra-toraṇa (ornamental-arch) (lines 37-38).

All these arches are both structurally and ornamentally decorated with the carvings of gods, sages, demi-gods, goblins, crocodiles, sharks, fishes, leopards, serpents, lions, flowers, leaves, creepers, etc., and are beautifully set with jewels :

Sarveshām toraṇa-madhye chordhve tumburu-nāradam ।

Tad-pradēśe dvi-pāśve tu makarādi-vibhūṣitam ।

Toraṇasyāgra-mūle tu grāha-patrais̄ cha bhūshitam |  
 Torapādyaṅṅ tu patrādi-bhūta-vyāla-samanvitam |  
 Pādānām̄ cha dvi-pārīve tu vyāla-toraṇa-dhāriṇam |

(*M.*, XLVI, 45-49.)

Ratnakārāṅgaṅpair yuktam̄ kukshi(r) āvṛita-lambitam |  
 Torapasyopari-deśe tu bhujāṅga-pāda-dvayor api |  
 Grāhāntam̄ sarva-ratnais̄ cha pūritam̄ śreṇi-saṅhyutam |

(*ibid.*, 58-60.)

But these arches may as well be quite plain, that is, without any such carvings (chitra-hīna)—(*ibid.*, 68, 70.)

In connexion with a detached pavilion (maṇḍapa) :

Chatur-dikshu chatur-dvāraṅ chatuṣ-toraṇa-saṅhyutam |

(*M.*, LXX, 21 : see also XXXIV, 217.)

In connexion with the pedestal of an image :

Padma-pīṭham̄ mahā-pīṭham̄ tri-mūrtinām̄ cha yojayet |  
 Prapā cha toraṇam̄ vāpi kalpa-vṛiksham̄ cha saṅhyutam |

(*M.*, LI, 86-87.)

In connexion with the coronation-hall :

Pāśchāt̄ simhādyaṅṅis̄ cha kalpa-vṛiksham̄ cha toraṇam̄ |

(*M.*, XLIX, 185.)

In connexion with the car or chariot :

Śikhi-śikhaṅḍaka-chāmara-toraṇam̄ | (*M.*, XLIII, 156.)

In connexion with the two-storeyed buildings :

Toraṅpair̄ nīḍa-bhadrādi(-dyaiḥ) mūle chordhve cha bhūshitam |

(*M.*, XX, 64.)

In connexion with buildings in general (vimāna) :

Śālā cha nāsikā-bhadre kuṭa-nīḍais̄ tu toraṅaiḥ |

(*M.*, XVIII, 201, etc.)

In connexion with the dome and the pillar :

Athavā toraṇam̄ kṛitvā stambhasyopari vājanam̄ |

Tad-ūdhve toraṇasyānte makara-patra-saṅhyutam |

Tad-ūrdhve toraṅāntam̄ syād̄ cka-dandaṅ tu tach-chhiram̄ |

Makari-vaktra-saṅvuktaṅ . . .

(*M.*, XIV, 130, 133-135.)

(4) Tilaka-kshudra-nāsī-yukta-toraṅais̄ cha samanvitam̄ ||

(*Kāmikāgama*, I, 93, etc.)

See *ibid.*, LV, 59-63, 56-70, and compare :

Toraṅam̄ tri-vidham̄ patra-toraṅam̄ makarānvitam̄ |

Chitra-toraṅam̄ ity-eshām̄ maṅḍanaṅ chādhunochyate ||

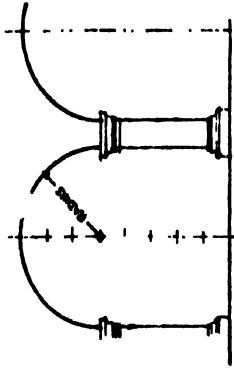
Deva-dviḅa-narendrāṅām̄ toraṅam̄ makarākhyakam̄ |

Toraṅam̄ chitra-sajñam̄ tu vaiśyānām̄ pravidhīyate |

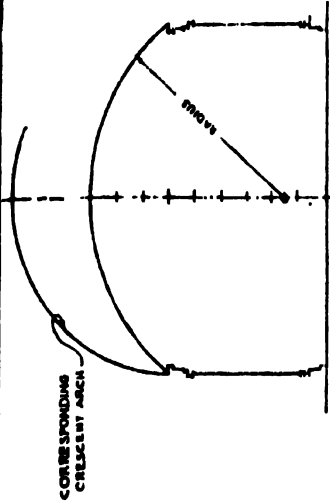
Padmā(patrā)khyā-toraṅam̄ sūdre sarvaṅ sarvatra vā matam̄ ||

(*Ibid.*, LV, 64, 93.)

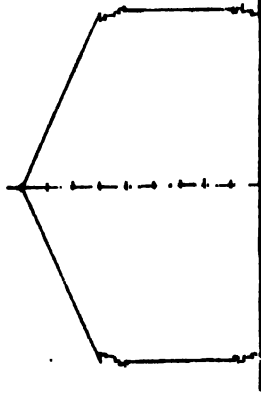
**ARCHES**  
**SIMPLE TYPES**  
**NOT TO SCALE.**



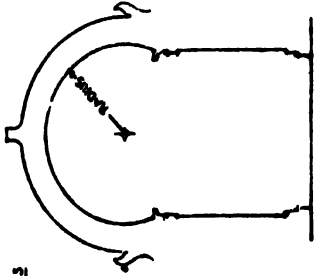
**CRESCENT SHAPED ARCH**  
**PIER - 5 PARTS, ARCH - 3 PARTS**



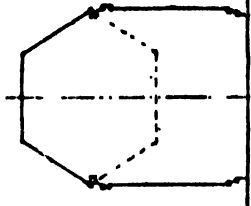
**BOW-SHAPED ARCH**  
**PIER - 6 PARTS, ARCH - 3 PARTS**



**TRIANGULAR ARCH**  
**PIER - 6 PARTS, ARCH - 3 PARTS**



**CIRCULAR ARCH**



**HEXAGONAL ARCH**





(5) . . . Toranāṃ vakshyate'dhunā !

Prishṭhe tu pārīvayoś chaiva kartavyās toraṇās tathā !  
 Dvārasyotsedha-mānaṃ yat toraṇasyochchhrayaṃ bhavet !  
 Tad-ardhaṃ vistaraṃ proktam uchchhrāye shad-vibhājite !  
 Makaraṃ tu dv(i)yaśśena śeṣaṃ pādāṃ iti smṛitam !  
 Mūla-pādasya ckārdhena tasya pāda-pramāṇakam !  
 Makarāśśaṃ tad-ūrdhve tu madhye vṛittaṃ sa-nimnakam !  
 Vṛitter ūrdhve uhaṃ kṛitvā ckatur-āyatam eva tu !  
 Pramāṇaṃ toraṇasyoktaṃ prastaraṃ cha tataḥ śṛiṇu !

(*Suprabhedāgama*, xxxi, 68-72.)

(6) *Mahābhārata* (Cock) :

XIV, 25, 23 : Stambhān kanaka-chitrāśś cha toraṇāni  
 vṛitanti cha !

XIV, 85, 29 : Torāṇāni śata-kumbha-mayāni !

XV, 5, 16 : Puraṃ . . . dṛiḍha-prākāra-toraṇam !

XII, 44, 8 : Hema-toraṇa-bhūśhitāṃ gṛiham !

VIII, 33, 19 : Bahu-prākāra-toraṇam !

V, 191, 21 : Sthūṇa-bhavanam . . . uchcha-prākāra-toraṇam

*See also* V, 143, 23 ; III, 284, 2 ; III, 160, 39 ; III, 15, 5 ; II, 9, 1 ; II, 3,  
 26, 1, 185, 17 ; I, 109, 8, etc.

(7) *Rāmāyaṇa* (Cock) :

II, 91, 32 : Harmya-prāsāda-samyukta-toraṇāni !

I, 5, 10 : Kapāṭa-toraṇa-vatīm . . . purīm !

II, 15, 32 : Rāma-veśma . . . maṇi-vidruma-toraṇam !

III, 45, 11 : Hema-kakshyā purī ramyā vaidurya-maya-toraṇā !

V, 3, 33 : Nagarīm laṅkāṃ sāṭṭa-prākāra-toraṇam !

V, 4, 24 : Gṛiham . . . mahā-hāṭaka-toraṇam !

*See also* IV, 33, 17 ; V, 2, 18, 51 ; V, 6, 4 ; V, 18, 8 ; V, 27, 31 ; V, 37,  
 39 ; V, 41, 21 ; V, 42, 27 ; V, 39, 42 ; V, 44, 6 ; V, 42, 6 ; V, 46,  
 20, 41 ; V, 47, 7, 38 ; V, 53, 39 ; V, 55, 32 ; VI, 25, 24, 30 ; VI,  
 26, 12 ; VI, 41, 31, 56 ; VI, 42, 15 ; VI, 75, 21 ; VII, 3, 27 ; VII, 5,  
 25 ; VII, 13, 5 ; VII, 14, 24, 27, 28, 29 ; VII, 15, 36 ; VII, 38, 17.

(8) *Matsya-Purāṇa* (Chap. CCLXIV, v. 15) :

Chaturbhis toranair yukto maṇḍapa(h) syāc chatur-mukhaḥ !

The pavilion should have four faces and be furnished with four  
 arched gateways (arches).

Aiśṭakā dār(a)vāś chaiva śailā vā syuḥ sa-toraṇā !

(*Ibid.*, Chap. CCLXIX, v. 46.)

(9) *Vāyu-Purāṇa* (Part I, Chap. xxxix, vv. 36, 51, 60) :

Harmya-prāsāda-kalilāḥ prāśśu-prākāra-toraṇāḥ !

Aśītya-amara-puryābhā maker-prākāra-toraṇāḥ !

Pāpdure chāru-śikhare mahā-prākāra-toraṇe !

(10) *Kauṭilya-Artha-śāstra* (Chap. xxiv, p. 53) :

Dvi-hastam toraṇa-śiraḥ—' a top-support of ornamental arches projecting as far as two cubits. '

(11) Sarva-deva-maya-chāru-toraṇam svarga-khaṇḍam iva vedhasā svayam—' the beautiful porch which contains all the gods like a portion of heaven made by the Creator himself. '

' In his account of the ruins of the temple, Mr. Dean speaks of a doorway relieved by an architrave of most elaborate sculpture, divided into twelve compartments, in each of which a group from the Hindu Pantheon occupies a place. '

(Harsha Stone Inscript., v. 44, *Ep. Ind.*, Vol. II, pp. 121, 126, 124, 128 ; cf. note 72.)

(12) A sort of triumphal arch, supported by two pillars :

Ātma-bāhu-yuga-sauhrid-amchita-stambha-saurabha-śubham sutoraṇam—(Citra Prasasti of the reign of Saranga-deva, v. 46, *Ep.*, *Ind.*, Vol. I, pp. 284, 276.)

(13) See Śrīdhara's Devapattana prasasti (verse 10, *Ep. Ind.*, Vol. II, p. 440), and compare :

Sughaṭita-vṛisha-śata-toraṇa-dvāram—' an excellent porch at which a bull is skilfully carved. '—(*Ibid.*, v. 12, p. 121.)

(14) Ornamental arch (for the temple) : Prāsāda-toraṇam |

(Jaina Inscript. from Mathura, no. 1, *Ep. Ind.*, Vol. II, p. 198.)

(15) A semi-circular arch with sculpture.

(Specimens of sculptures from Mathura, Plate III, *Ep. Ind.*, Vol. II, p. 320-321.)

(16) Makara-toraṇa—' arch with a shark. '

(*Raṅganātha Inscript. of Sundarapandya*, v. 9, *Ep. Ind.*, Vol. III, pp. 12, 15.)

(17) Arch (Cochin plates of Bhaskara Ravivarman, line 10, *Ep. Ind.*, Vol. III, p. 68, 69).

(18) Vyadhata śrī-someśāspada-mukūṭavat toraṇam kāmchanasya |

' Erected a golden toraṇa like a diadem for the abode of the holy Somcā. '

(The Chahamanas of Naddula, no. c, Sundhā Hill Inscript. of Chāchigadeva v. 34, *Ep. Ind.*, Vol. IX, pp. 77, 72.)

(19) ' In front of the basadi of nokkijabbe, the family goddess of her husband Vira-Śāntara, she had a makara-toraṇa made. '—(*Ep. Carnat.*, Vol. VIII, Part I, Nagar Taluq, no. 47, Transl., p. 151, para. 2.)

(20) ' We grant to you in addition throne, crown palanquin, white umbrella, chāmaras on both sides, makara-toraṇa (a kind of arched canopy), fan, day-light torch, yellow and red flags and such insignia, with cymbals, . . .'—(*Ibid.*, no. 67, Transl., p. 157, line 14 f.)

(21) ' Who (Śri-Rājendra-Sola-Devar, A. D. 1094)—having sent (many ships in the midst of the bellowing sea) and having captured Śangirāma-viśaiyot-tuṅgapannam, the king of Kidāram, along with his victorious fine elephants which had (well formed) frontal globes and resembled the impetuous sea—took the large heap of treasure which he had rightfully amassed, the Vichchādira-toraṇam at the war-gate of the enemy's extensive city, the wicket-door set with jewels of great splendour, and the door set with large jewels.'—(*Ep. Carnat.*, Vol. ix, Channapatna Taluq, nos. 82, 83; Roman Text, p. 185, line 5 from the bottom upwards; Transl., 149.)

(22) ' White chāmaras, the crown banner, makara-toraṇa, herds of camels.'—(*Ibid.* no. 85; Transl., p. 150.)

(23) ' Built a beautiful stone temple with the toraṇa-gate and the surroundings walls. Having provided the temple with a flower-garden, kitchen, pond, suitable environs, musical instrument (two named) and ornaments (some named) . . .'—(*Ep. Carnat.*, Vol. x, Kolar Taluq, no. 132; Roman text, p. 54; Transl., p. 49.)

(24) Svarṇa-dvāraṁ sthāpitaṁ toraṇena sārddham Śrimal-Lokanāthasya gehe ।

' Placed a golden door and toraṇa in the temple of glorious Lokanātha.'

The inscription is ' on the lintel of the door of the temple of Avalokiteśvara in Bungmatī. The door is made of gilt brass plates, and adorned by relieves. The arch or toraṇa above the door, which is likewise made of brass, encloses three images of Lokeśvara.'

(Inscrip. from Nepal, no. 21, Inscrip. of Srinivasa, line 6 f., *Ind., Ant.*, Vol. ix, p. 192, note 62.)

(25) Suganaṁ raje . . . Dhanabhūtina kāritaṁ toraṇaṁ śilākarmamṛta cha upaṁno (= Śuṅgānāṁ rāje . . . Dhanabhūtina kāritaṁ toraṇaṁ śilākarmāntaś choṭpannaḥ) ।

' During the reign of the Sungas (first or second century B. C.) this gateway was erected, and the masonry finished by Vāchhi-puta (Vātsī-putra) Dhanabhūti.'

(Sunga Inscrip. of the Bharhut Stupa, line 3 f., *Ind. Ant.*, Vol. xiv, pp. 198, 199; no. 1, Vol. xxv, p. 227.)

(26) ' Pulling down the temple which had fallen to ruin, had it securely rebuilt with a gopura, a maḥāra-toraṇa for the god Durgīśvara, and god Vṛṣhabha.'—(*Ep. Carnat.*, Vol. iii, Tūrumakūḍlu-Narasipūr Taluq, no. 103; Transl., p. 88; Roman Text, p. 170.)

(27) 'The sculptor Kālidāsi, champion over the proud, a thunderbolt to the rock (vajra-giri), titled sculptor, made the makara-toraṇa (or carved headpiece for the lintel).—(*Ep. Carnat.*, Vol. v, part I, Supplement, Belur Taluq, no. 239 ; Transl., p. 27 ; ; Roman Text, p. 592.)

(28) 'Those Brāhman, pleased with Bāsi-Setṭi, gave to his wife and children a large palanquin and a canopy (toraṇa) to descend to his children.—(*Ep. Carnat.*, Vol. vi, Chikmagalūr Taluq, no. 44 ; Transl., p. 39 ; Roman Text, p. 104.)

(29) 'The Vira-bhikshavati-udāna-svāmi honoured the Svāmi of the Gālipuje throne with the following : a palanquin with silver mountings, a pearl necklace, a golden umbrella, the double chāmaras, a makara (toraṇa) canopy . . . for the feet, a Mukkanna drum, a Basava drum, a Nandi flag, etc.—(*Ep. Carnat.*, Vol. vi, Chikmagalūr Taluq, no. 109 ; Transl., p. 51, para 2 ; Roman Text, p. 124, line 8 f.)

(30) 'Toran(a)—A structure formed of one or more horizontal beams resting on columns : a gateway or other detached entrance.—(*Rea, Chālukyān Architecture, Arch. Surv.*, New Imp. Series, Vol. xxi, p. 40.)

(31) See Cunningham, *Arch. Surv. Reports* (Vol. xxi, Plate xl, Toraṇa of great temple, Nānd-Chānd).

(32) 'Toraṇa—(1) Gate-way of a temple or Stūpa, (2) a peg used in marriage ceremonies.—(Vincent Smith, Gloss. to Cunningham's *Arch. Surv. Reports*.)

TAULI—The top of a building, a roof, the ceiling.

Mukhottarāyate nyasya tiryak taulim prakalpayet |

Padam vāyate taulim kuryād yuktyā vichakṣaṇaḥ |

Tad-ūrdhve jayantikaṁ kuryāt tat-tat-prachchhādanānvitam |

(*M.*, xxxiii, 372-374.)

See PRACHCHHĀDANA and compare PRATAULI.

TRI-KARṆA—A kind of joinery, of three-earn pattern.

(*M.*, xvii, 106 ; see under SANDHI-KARMAN.)

TRI-TĀLA—The second floor, the third storey.

The description of the third storey.—(*M.*, xxi, 56-72 ; the eight classes, 2-55 ; see under PRĀSĀDA.)

TRI-PAṬṬA—A three-fold band, a moulding.

A moulding of the vase.—(*M.*, xiv, 74, 143, 248, etc.; compare the lists of mouldings under ADHISṬHĀNA.)

TRI-BHAṄGA (see BHAṄGA)—A pose in which the image is bent in three places. In this pose a figure has its head and hips displaced about one *amśa* (part) to the right or left of the centue line.

(See details under BHAṄGA.)

TRI-BHITT-(IKA)—A three-fold wall, a structure having such a wall.

(*M.*, XXXIV, 74.)

TRI-BHŪMI (*see* TRI-TĀLA)—The third storey, a three-storeyed building.

In connexion with an image :

Evam tu Vishṇu-mūrtiḥ syāch chhakti-yuktaḥ tu pārśvayoḥ |

Tri-bhūmirdakṣiṇe vāme sthāvare jaṅgame'pivā |

(*M.*, LI, 62-63.)

TRI-MŪRTI—The triad, the images of Brahmā, Vishṇu and Śiva.

(*M.*, LI, 2-95.)

TRI-YUTA—A site plan in which the whole area is divided into 289 equal squares.

(*M.*, VII, 23 ; *see* under PADA-VINYĀSA.)

TRI-VARGAKA—A set of three architectural members or mouldings.

Pinopapīṭhath harmyaḥ cheva maṇḍapaḥ cha tri-vargakam |

(*M.*, XXXIV, 68.)

Nanda-pāṅkty-aṁśa(-śe) vibhajet chatus-tale tu tri-vargakam |

(*M.*, XXXIII, 505.)

In connexion with the foundations :

Mañjūshochchrayaḥ chatur-bhāgaḥ tat-tad ekāsanam bhavet |

Tad-dvayaḥ chāṅghri-tuṅgaḥ syād ekāṁśaḥ prastarāṅvitam |

Tri-varga-maṇḍapākāram adbhīḥ svāntaḥ pravaiṣṭake |

(*M.*, XII, 34-36.)

TRI-VIṢṬĀPA—A class of buildings, octangular in plan and called (1) Vajra, (2) Chakra, (3) Svastika, (4) Vajra-svastika, (5) Chitra, (6) Svastika-khaḍga, (7) Gadā, (8) Śrikanṭha, and (9) Vijaya.

(1) *Agni-Purāṇa*—(Chap. CIV, vv. 12, 20-21 ; *see* under PRĀSĀDA.)

(2) *Garuḍa-Purāṇa*—(Chap. XLVII, vv. 21, 22, 23, 31-32 ; *see* under PRĀSĀDA.)

TVASHTRĪ—An architect (*see* details under STHAPATI).

DANḌA(-MĀNA)—A measure, a type of building, a flag-staff, a pillar, a parapet (*M.*, XVI, 194-196).

(1) A measure of four cubits (*see* under ANḠULA) :

Chatur-hastaḥ dhanur danḍaḥ danḍāṣṭaḥ rajjum eva cha |

(*M.*, II, 53.)

Compare hasta-daṇḍa (*M.*, II, 68), māna-daṇḍa (*ibid.*, 76).

A stick (*M.*, II, 223), a measure (*M.*, IX, 10, etc.); in connexion with joinery (*M.*, XVII, 200).

(2) A house with a northern and eastern hall (*see* DANḌA-KĀNTA).

(*Bṛihat-Saḥsītā*, LIII, 39.)

(3) Chatur-hasto dhanur daṇḍo nālika-jugam eva cha †

(*Brahmaṇḍa-Purāṇa*, Part I, 2nd Anuṣaṅga-pāda, Chap. VII, v. 100.)

(4) A class of buildings.—(*Kāmikāgama*, XLV, 64; *see* under MĀLIKA.)

(5) Achaleśa-darḍam uchchaiḥ sauvarṇṇaṁ Samara-bhūpālāḥ Kārayā-māsa †

‘The protector of the earth, Samara, caused a golden flagstaff to be erected here (in the temple at Abu) for the lord of the mountain.’

(Mount Abu Inscript. of Samarasiṁha v. 54, *Ind. Ant.*, Vol. XVI, pp. 350, 355.)

(6) Daṇḍa—‘an unspecified measure, also called Stambha.’—Bamani Inscript. of the Silahara Vijayaditya, lines 20, 21, 23, *Ep. Ind.*, Vol. III, pp. 212 213.)

DANḌAKA—A pillar, a village, a pavilion, a hall, a moulding.

(1) A part of a column.

(*Suprabhedāgama*, XXX, 586, etc.; *see* under STAMBHA.)

(2) *Mānasāra* :

A class of villages (*M.*, IX, 2, etc.; *see* under GRĀMA).

A part (? shaft) of the column (*M.*, XV, 44, 149; I, 85).

A small pillar (*M.*, XVII, 172).

type of pavilion with two faces :

Dvi-vaktraṁ daṇḍakaṁ proktaṁ tri-vaktraṁ svastikaṁ tathā †

(*M.*, XXXIV, 552; *see* further context under MAṆḌAPA.)

A class of halls or storeyed mansions built in a single row—(*M.*, XXXV, 3, description *ibid.*, 65–66, 82–95, *see* under ŚĀLA.)

DANḌA-KĀNTA—A class of halls, a type of storeyed mansions.

(*M.*, XXXV, 104; *see* DANḌAKA.)

DANḌIKĀ—The fifth moulding from the top of the entablature.

(*Kāmikāgama*, LIV, 2; *see* under PRASTARA.)

DANḌITA—Smaller buildings, pavilions near the door.

*Cf.* Dvāra-mānaṁ tathaivaṁ syāt daṇḍita-dvāraṁ ardhatāḥ †

(*Ibid.*, XXXV, 45, etc.)

DANTA-KĪLA—A kind of tooth-like joinery.

(*M.*, xvii, 177 ; see SANDHI-KARMAṆ.)

DANTA-NĀLA—A tooth-like drain or canal.

In connexion with the general description of the single-storeyed buildings :

Madhyame chottame harmye danta-nālaṁ pramāṇakam ।

(*M.*, xix, 168.)

DAM(A) (see DIHĀMAṆ) —A house.

(*R.-V.*, I, 1, 8 ; II, 1, 2 ; *Vj. Sam.* viii 24, etc.)

DARI-GRIHA (see KANDARA-GRIHA) —The cave-house generally hewn out of rocks, underground rooms.

See Kālidāsa's *Kumārasambhava* (I, 10, 14 ; quoted also by Professor Lüder ; *Ind. Ant.*, Vol. xxxiv, p. 199.)

DARPAṆA—A looking-glass, a mirror, an ornament.

In connexion with the single-storeyed buildings :

Pālike lambanaṁ tatra śreṇyā darpaṇa(m) proktavat ।—(*M.*, xix, 42.)

In connexion with the car or chariot :

Rathānāṁ chordva-dśasya alaṅkāraṁ pravakshyate ।

Vividha-kiṅkini-nirmala-darpaṇam. . . ।—(*M.*, xliii, 148, 157.)

An article of furniture (*M.*, L, 46), its description (*ibid.*, 111-131).

DARBHA—A type of pavilion, used as stables for elephants.

(*M.*, xxxiv, 253 ; see under MAṆḌAPA.)

DALA—A petal, a leaf, a moulding of leaf-pattern.

A moulding of the pedestal (*M.*, xiii, 75, 82, etc. ; see the lists of mouldings under UPARIṬHA).

A moulding of the throne (*M.*, xlv, 160, etc.).

DAŚA-KANTA—A collective name of the ten classes of twelve-storeyed buildings.

(*M.*, xxx, 7.)

DAŚA-TALA—The tenth storey, the ten-storeyed buildings.

Etad daśa-talaṁ proktaṁ rajju-sūtram adhas-talam ।

(*Kāmitāgama*, xxxv, 85.)

The description of the tenth storey (*M.*, xxviii, 20-40), six classes (*ibid.* 2-18 ; see under PRĀSĀDA).



DAŚA-TĀLA—A sculptural measure (see under TĀLA-MĀNA).

See *Aṁsumadbheda* of Kāśyapa (*MS. Egg.* 3148, 3012, fol. 266, the largest type of the daśa-tāla measure ; and fol. 274, the smallest type of the same.)

DAŚA-BHŪMI (see DAŚA-TĀLA)—The tenth storey, the ninth floor.

DĀGABA—A Singalese word applied to a stūpa, derived from Sanskrit 'dhātu,' a relic, element, and garbha, a womb, receptacle, or shrine.

See further details under DHĀTUGARBHA, cf. *Vinaya Texts*, 4, 308. They were pre-Buddhistic in origin, see *White Yajurveda*, Chap. XXXV.

DĪPA-DANḌA—A lamp-post, a lamp-bearing pillar.

Compare Dīpa-stambha, and Dīpa-skambha under STAMBHA and see the plates referred to.

The stationary lamp-post is generally built in front of the house (*M.*, L. 64) ; the movable lamp-stand is square, octagonal or circular (*ibid.*, 84) ; they are made of iron, wood, or stone (*ibid.*, 71-89) ; their description in detail (*ibid.*, 57-83, 84, 96).

DĪPA-DĀNA—A lamp-pillar. In the south (of India) it is usually a high monolith, with an iron lamp-bracket on the top. In the north-west of the Presidency of Madras such pillars are sometimes constructed in courses, with lamp-brackets in the joints. These pillars are erected outside the front entrance.

(Chālukyān Architecture, p. 38, *Arch. Surv.*, New Imp. Series, Vol. XXI ; see Plate CIX, fig. 1.)

DĪPA-MĀLA-(SKAMBHA, DĪPA-STAMBHA, DIPTI-STAMBHA) (see STAMBHA)—A lamp-bearing pillar, generally belonging to the Jain monuments.

A small lamp-pillar, standing inside the temple (Chālukyān Architecture, p. 38, *Arch. Surv.*, New Imp. Series, Vol. XXI ; see Plate CIX, fig. 1).

DUNDUBHI—A type of round buildings.

(1) *Agni-Purāṇa* (Chap. CIV, vv. 17-18 ; see under PRĀĀDA).

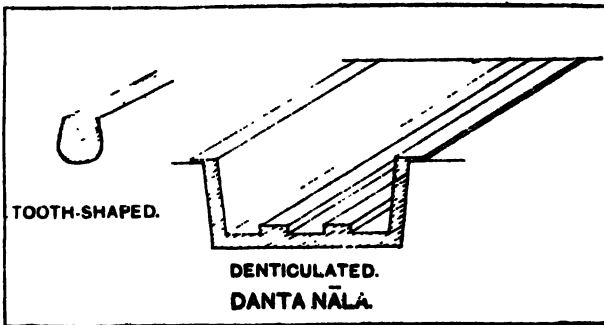
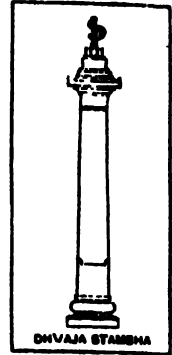
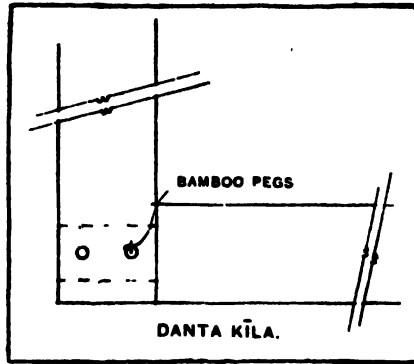
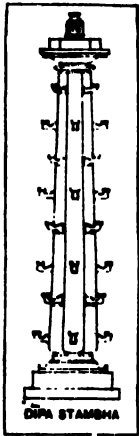
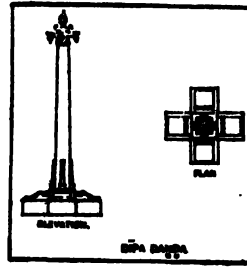
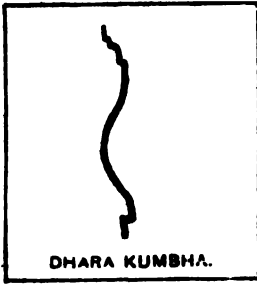
(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 28, 29, see under PRĀĀDA).

DURGA—*Lit.* 'difficult to go' into, hence a fortified place, a fort, a fortified city.

(1) *Mānasāra*:

As fortified cities, the forts are called śibira, vāhīnī-mukha, sthāniya, droṇaka, sambidhha, kolaka, ṇigama and skandh-āvāra.

(*M.*, x, 40-42.)





For purely military purposes, they are classified as giri-durga (hill-fort), vana-druga (forest-fort), salila-durga (water-fort), pañka-durga (clay-fort), ratha-durga (chariot-fort), deva-durga (divine-fort), and miśra-durga (mixed fort) (*M.*, x, 90-91). Their description in detail is given (*ibid.*, 90-103).

Their common features :

Sarveshām api durgāṇām vapraiś cha parikhair vṛitam |  
 Praveśa-nirgama-sthāne dvārair api samanvitam |  
 Ishtakādi-kṛitam vapraṁ hasta-dvādaśakochchhrayam |  
 Tad-ardhaṁ bhitti-mūle tu sañchāraiḥ saha viṣṭitam |

(*M.*, x. 106-109.)

(2) *Kauṣīlya-Artha-śāstra* (Chap. xxiv, para 1, p. 51):

Chatur-diśaṁ jana-padānte sāmparāyikaṁ daiva-kṛitaṁ durgam  
 kārayat antar-dvīpaṁ sthalaṁ vā nimnāvaruddham audakaṁ  
 prāstaraṁ guhāṁ vā pārvataṁ nirudaka-stambam-irināṁ vā  
 dhānvanāṁ kha-janodakaṁ stamba-gahanāṁ vā vana-  
 durgam |

Teshāṁ nadi-parvata-durgam jan-padāraksha-sthānaṁ dhān-  
 vana-vana-durgam atavī-sthānam āpādyā prasāro vā |

Then follows the very interesting description of the plan and other architectural details, the military defences, and internal arrangement for the comfort and convenience of the inhabitants.

The contents of Chapters xxiv, xxv, and xxii, when taken together, will give a good idea of the ancient fortified cities :

They can be circular, square or rectangular. They are surrounded with moats (parikhā), enclosure walls and ramparts (prākāra and vakra), and are furnished with various entrances, exits and gateways (pratoli). Circumambulating flights of steps (pradakṣhiṇa-sopāna) and secret staircases in the walls (guḍha bhitti-sopāna) are constructed. Towers are built on the enclosure walls and warlike weapons are placed therein. In the interior are constructed tanks, ponds, canals, etc. Various kinds of roads are constructed, and buildings for the people of different castes and professions are erected in a suitable manner.

(3) *Śukranīti* (Chap. iv. sect. vi, vv. 2-16, 23-28, ed. Jivānanda Vidyā sāgara, p. 447 f.)

‘Fortresses are made inaccessible through ditches, thorns, rocks and deserts. The *Parikhā* fort is that which is surrounded on all sides by great ditches (parikhā); and the *Parigha* fort is known to be that which is protected by walls of bricks, stones and mud.

The *Vana* or forest-fort is one which is encircled by huge thorns and clusters of trees. The *Dhanva-durga* is known to be that round about which there is no water. The *Jala-durga* or water-fort is that which is surrounded by great sheets of water. The *Giri-durga* or hill-fort is described as that one which is on the high level and is supplied with plenty of water. The *Sainya-durga* or troop-fort is that one which is defended by heroes well up in vyuhās or military defence and hence impregnable. The *Sahāya-durga* or help-fort is known to be that which belongs to valorous and friendly kinsfolk. ’

- (4) Laṅkāpurī nirālabā deva-durga-bhayāvahā |  
Nādeyaṁ pārvataṁ vanyaṁ kṛitriṁ cha chatur-vidham ||  
Śailāgre rachiṭa-durgā sā pūr deva-puropamā |  
(*Rāmāyaṇa*, Laṅkākāṇḍa, Sarga 3, vv. 20, 22.)
- (5) Kheṭānām cha purāṇām cha grāmāṇām chaiva sarvaśaḥ |  
Tri-vidhānām cha durgāṇām pārvatodaka-dhanvinām ||  
(*Brahmaṇḍa-Purāṇa*, Part 1, 2nd Anuśaṅga-pāda, Chap. VII, v. 105 ; see also v. 102.)
- (6) Dhanur-durga-mahī-durgam ab-durgam vārkshaṁ eva vā |  
Nṛi-durgam giri-durgam vā samāśritya vaset puram ||  
(*Manu-Saṁhitā*, VII, 70, etc.)
- (7) Shaḍ-vidham durgam āsthāya purāṇy-atha niveśayet |  
Sarva-saṁpat-pradhānaṁ yad bāhulyaṁ chāpi saṁbhavet ||  
Dhanva-durgam mahī-durgam giri-durgam tathaiva cha |  
Manushya-durgam mṛid-durgam vana-durgam cha tāni shaḍ |

Then follow the description of details of these fortified places.

(*Mahābhārata*, XII, 86, 4-5, etc.)

(8) Yo’yaṁ samastam api maṇḍalam āśu śatror āchchhidya kirtti-giri-durgam idaṁ vyādhatta—‘having quickly wrested from the enemy this whole district (maṇḍala) made this fort of Kīrtigiri.’—(Chandella Insc. no. B, Deogaṭṭha rock Insc. of Kīrtivarman, v. 6, *Ind. Ant.*, Vol. XVIII, pp. 238, 239.)

- (9) Lakshmi-nṛisimha-paripālita-pūrva-tiṣṭe durge su-bhīmā-parighe  
Maḷavalli-nāmnī |  
Vedāntagaiḥ śrutiparaiḥ smṛiti-dharma-vidyaiḥ pūrṇe sma  
kārayati deva-nṛipas-saro’gryam ||

‘In the fort named Maḷavalli, protected on the east by (the temple of) Lakshmi-Nṛisimha, having a deep moat, filled with men learned in the Vedānta (i.e., philosophy), Śruti (Vedas), Smṛiti and Dharma-śāstra that Deva-nṛipati made a magnificent pond.’

Evidently this 'durga' or fort is not a military post or station; its inmates are people learned not in the military science but in philosophy and religion. At the same time it is protected by 'deep moat.' It is, therefore, just like the villages or towns described in the *Mānasāra*.

(*Ep. Carnat.*, Vol. III, Malavalli Taluq no. 61; Roman Text, last verse, p. 126; Transl., p. 62.)

(10) See the fort-temple.

(Chālukyān Architecture, *Arch. Surv.*, New Imp. Series, Vol. XXI, Plate CXIV, figs. 1, 2.)

DURYA—Door-posts, belonging to doors, dwellings.

(*R.-V.*, I, 9, 18; 2, 12; VII, 1, 11; 1, 91, 19; X, 40, 12; *Taitt. Sam.*, I, 6, 3, 1; *Vāj. Sam.*, I, 11.)

DURLABHA-GRĀMA—A village situated close to a large village (mahā-grāma) and inhabited by the free-holders (agrahāropajīvin).

(*M.*, X, 79-80; see under GRĀMA.)

DEVA-KĀNTA—A class of the eight-storeyed buildings.

(*M.*, XXVI, 46-47; see under PRĀSĀDA.)

DEVA-KULA(-IKĀ)—A chapel, a shrine, a temple, a statue shrine, a statue gallery.

(1) 'Kandaśeṇaṇ (Skandaseṇa) . . . caused (this) temple (deva-kula) to be made.'—(Vallam Inscip. of Mahendrapotara, no. 72, A. B; *H. S. I. I.*, Vol. II, p. 341.)

(2) See inscriptions from Northern Gujarat (no. XXI, line 4, *Ep. Ind.*, Vol. II, p. 31.)

(3) See the inscription of the Samvat 168 in Sarada character at Peshwar Museum.

(4) Compare statue gallery of Ikshvaku Kings described in the Pratimā Nāṭaka of Bhāsa, and Kushan Kings Vamatakeshma and Kanishka and the Saka Satrap Chastana excavated in a mound near Mathura and preserved in the Mathura Museum.

DEVA-GARBHA—Foundations of temples (see under GARBHA-NYĀSA).

DEVATĀ-MANḌAPA—A class of pavilions.

(*Suprabhedāgama*, XXXI, 96, 98; see under MANḌAPA.)

DEVA-DURGA (see DURGA)—A god's fort, a divine or natural fort.

Having sacked deva-durga which formerly the Chola King (or the Chola named Narendra) had made certain could not be taken, he by his valour captured Uchchangī, together with all the empire of the Pandya King.—(*Ep. Carnat.*, Vol. v, Part 1; Belur Taluq, no. 119; Transl., p. 78; Roman Text, pp. 182-183.)

DEVA-NIKETA-MANḌALA—A group of temples.

Achikarad deva-niketa-maṇḍalam . . . stambha-varo-chchhraya-prabhāse—'caused to be made a group of temples . . . which is beautiful with the erection of (this) best of columns.'—(Bihar Stone Pillar Inscript. of Skandagupta, lines 5-6, *C.I.I.*, Vol. III, F. G. I. no. 12, pp. 49, 51.)

DEVA-BHŪSHANA-MANḌAPA—A detached pavilion where the idols are dressed, a dressing room in a temple.

(*M.*, XXXII, 71; see under MANḌAPA.)

DEVĀYATANA (see ĀYATANA)—A temple.

Kritvā prabhūtaṁ salilam ārāmān viniveśya cha |

Devāyatanaṁ kuryād yaśo-dharmābhivṛddhaye ||

'Having made great water reservoirs and laid out gardens, let one build a temple to heighten one's reputation and merit.'

(*Bṛihat-Saṁhitā*, LVI, 1: *J. R. A. S.*, N. S. Vol. VI, p. 316.)

*Rāmāyaṇa* (Cock):

- I. 5, 13 (Purīm) . . . devāyatanaṁ chaiva vimānair apīśobhitām |
  - I. 77, 13 Devāyatanāni |
  - II. 6, 4 Śrīmaty-āyatane vishṇoḥ |
  - II. 6, 11 Sitābhra-śikhārābheshu devāyataneshu |
  - II. 3, 18 Devāyatana-chaityeshu (also II, 71, 72).
  - II. 25, 4 Deveshv-āyataneshu cha |
  - VII. 101, 15 (Ubhe purottame) . . . śobhite śobhaniyāṁś cha devāyatana-vistaraiḥ |
- Devāyatana-chaityeshu |—(*Mahābhārata*, II, 80, 30, etc.)

*Cf.* Grāma-nagara-kheḍa-karvvaḍa-maḍamba-droṇa-mukha-pattaṇaṁ gaḷiṁdam aneka-māṭa-kuṭa-prāsāda-devāyatanaṁgaḷiḍam-oppuva-agrahāra-paṭṭanaṁgaḷiṁdam atīśayav-appa . . . |

[At Teridala, a merchant-town situated in the centre and the first in importance among the twelve (towns) in the glorious Kundi Three-Thousand, adorned with]—'villages towns, hamlets, villages surrounded by hills, groups of villages, sea-girt towns, and chief cities

with elegant mansions, palaces and temples, and with shining agrahāra towns in the country of Kuntala . . .'

(Old Kanarese Inscript. at Terdal, line 58 ;  
*Ind. Ant.*, Vol. xrv, pp. 19, 25.)

**DEVĀLAYA**—A god's residence or dwelling, in the sense of temple it is of very common occurrence and needs no illustrative quotations. But the passages quoted below are the most descriptive of all the essential features of a Hindu temple and will fully explain the denotation of the term.

The general plan :

(1) ' Sometimes a portico is made round the garbha-griha (shrine and antarāla (corridor) together. The whole being closed on all sides but the front, in which are the doors for entrance, approached by the front portico, which is generally a peristyle, and it serves as the innermost court' for pradakashiṇa (circumambulation).'

' Temples on a large scale have three or four successive porticoes (maṇḍapa) attached to them in the front, which are called ardha-maṇḍapa, mahā-maṇḍapa, sthāpana-maṇḍapa, vṛitya maṇḍapa, etc. '

' A water spout is made over the base on the back wall of the garbha-griha on the left side of the idol. On the surface of the spout a cavity is made for discharging water. The spout may be made to spring from the head of a lion, etc. and the whole so devised as to project like a plantain flower.'

(Rām Rāz, *Ess. Arch. of Hind.*, pp. 49, 50, 51.)

(2) ' Kṛishṇarāja-uḍayar, having created Chāmarāja-nagara, created the Chāmarājeśvara temple (devālaya), together with its precincts (prākāra), gopura (gateway) adorned with golden kalaśas and tower (vimāna),—set up the great (mahā) liṅga under the name of Chāmarājeśvara, and in the shrine (garbha-griha) to his left set up the goddess named Kempa-Naṅjamāba, and in the shrine to his right the goddess Chāmuṇḍeśvari,—and at the main entrance (mahādvara) on the east set up a gopura, on the colonnade (kaisāleyalli), to the south the ancient images (purātana-vigraha), on the colonnade to the west a row of liṅgas forming the thousand (sahasra) liṅgas and on the colonnade to the north twenty-five pleasing statucs (lilāmūrti, cf. dhyāna-mūrti)—and on the south-west side building a separate temple (maṇḍapa), set up the god Nārāyaṇa together with Lakshmi.'—(*Ep. Carnat.*, Vol. iv, Chāmarāj-nagar Taluq, no. 86 ; Transl., p. 11, line 4 f. ; Roman Text, p. 18, line 8 f.)



(3) ' In Lakkuguṇḍi, which was his birth-place, Amṛitadaṇḍā-dhīṣa built a temple (devālaya), made a large tank, established a satra, formed an agrahāra, and set up a water-shed. '—(*Ep. Carnat.*, Vol. vi, Kadur Taluq, no. 36 ; Roman Text, p. 22, line 11 f. ; Transl., p. 8.)

(4) Devālayaiḥ prathayatā nija-kīrttim uchchaiḥ—' who spread his fame aloft by (building) temple. '—(*Sharqi Arch. of Jaunpur*, Shahet-Mahet Inscip., v. 14, *Arch. Surv.*, New Imp. Series, Vol. xi, pp. 72, 73.)

The general plan :

(5) ' The temple itself consists of the usual three parts : an open maṇḍapa on a base, . . . with a double row of pillars on the three exposed sides, and roofed by a large ribbed dome standing on the twelve inner pillars ; on each of the three outer sides it has a large projecting porch. Beyond this is the principal maṇḍapa . . . in the inner corner of this maṇḍapa are two rooms. . . . Three doors with richly carved thresholds lead from the hall into the shrine. '—(*Ahmedabad Arch.*, Burgess, *Arch. Surv.*, New Imp. Series, Vol. xxxiii, p. 29.)

(6) ' It (the Malleśvara temple at Hulikat) faces north and consists of a garbha-gṛiha, an open sukha-nāsi a nava-raṅga and a porch. '

' The Chennekeśava temple, which faces east, consists of a garbha-gṛiha, a sukha-nāsi and a nava-raṅga, and may have had a porch once. '

' The newly restored Śāradā temple, situated to the north of the Vindya-śaṅkara, is a fine structure in the Dravidian style consisting of a garbha-gṛiha, sukha-nāsi, a nava-raṅga, and a prakāra or enclosure. It faces east and has three entrances on the north, south, and east, the east entrance, which is the main entrance, having two open maṇḍapas at the sides inside. '

(*Mysore Arch. Reports*, 1915-16, p. 4, para. 10 ; p. 5, para. 12 ; p. 15, para. 19 ; see Plate III, figs. 1, 2.)

(7) ' There is, however, no doubt that it (the Hindu temple at Danui) was in the form of a cross with the usual ardha-maṇḍapa, maṇḍapa, maliā-maṇḍapa, antarāla, and gṛiha-garbha (garbha-gṛiha). '

(Cunningham, *Arch. Surv. Reports*, Vol. vii, p. 40 : see also *ibid.*, plate, XIX, showing in detail the mouldings of the Nārāyaṇa-pura temple, *ibid.*, Vol. xiv, Plate vii, Ionic temple of sun, *ibid.*, Vol. xv, Plate vii, island temple, *ibid.*, Vol. xiii, Plates xi, xii, xiii, xiv, xv, xvi, groups of temples.)

DEŚYA—A site plan of one hundred and forty-four squares.

(*M.* vii, 13, 14 ; see PADA-VINYĀSA.)

DEHARĪ(-LI)—A temple, the threshold of a door, a raised terrace.

(See inscriptions from Northern Gujarat nos. xxxii, line 3 ; xxxiii, line 2 xxiv, line 1 ; xxv, line 2 ; *Ep. Ind.*, Vol. ii, p. 32.)

DEHI—A defensive wall, trench or rampart.

(*R.-V.*, vi, 47, 2 ; vii, 6, 5, Schroder *Pre-historic : Antiquities*, 344 ; Zimmer, *All. Lib.*, 143, as in the names Videha or even Delhi.)

DEHA-LABDHĀṄGULA (see under AṄGULA)—A measure equal to one of the equal parts into which the whole height of the statue of a god (or of the master and sometimes of the sculptor too) is divided according to the tāla measures. This is employed in measuring the sculptural objects like the image of a god or man.

(*Suprabhedāgama*, xxx, 5, 6, 9 ; see under AṄGULA.)

DEHĀRA—A porch, a terrace.

(1) 'In a discourse on dharma in an assembly held in the porch or terrace (dehāra), the chaplain . . . set up a god in the name of their father.'—(*Ep. Carnat.*, Vol. v, Part I, Arsikere Taluq, no. 123 ; Transl., p. 167, para. 2, line 4.)

(2) 'From Vira-Hoysala he obtained (the appointment) of inspector of the servants of the porch or terrace (dehāra).'—(*Ibid.*, no. 127, Transl., p. 170, para. 2, line 16.)

DAVIKA-(LIṄGA)—A type of phallus, a phallus of divine origin.

Devaiś cha sthāpitam liṅgam daivikam liṅgam uchyate ।

(*M.*, lii, 230. See *Kārikāgama* I, 35, 37, under LIṄGA.)

DOLĀ—A swing, a hammock.

'The great minister caused to be erected a dipti-stambha for the Kṛittikā festival of lights and a swing (dolā) for the swinging rade festival (dolārohotsavakke) of the god Chenna-Keśava of Belur.' (*Ep. Carnat.*, Vol. v, Part I, Belur Taluq, no. 14 ; Transl., p. 47 ; Roman Text, p. 107. See *Mānasāra*, under BHŪSHANA.)

DRĀVIDA—A style of achitecture, a type of building once prevailing in the ancient Drāvida country (see details under NAGARA), India south of the Krishna corresponding to Tamil India.

(S. K. Aiyangar, *J. I. S. O. A.* of June, 1934, p. 23.)

A class of the twelve-storeyed builings :

Ravi-bhūmi-viśāle tu chāśṭa-vimśamsakam bhavet |

Mahā-sālā daśamsam syāt śesham pūrvavad ācharet |

Pāñchālam drāviḍam chaiva ravi-bhūmy-alpha harmyake |

(*M.*, xxx, 8-10.)

DRUPADA—The civic and sacrificial posts, symbolical of royal and divine power to which offenders and sacrificial victims were tied.

(*R.-V.*, I, 24, 13 ; IV, 32, 23 ; VII, 86, 5 ; *A.-V.*  
63, 3 ; 115, 2 ; XIX, 47, 9 ; *Vāj. Sam.*, xx, 20.)

DRONAKA (*see* under DURGA and NAGARA)—A fortified city situated on the bank of a sea, a sea-side town.

Samudrataṇi-yuktaṁ taṇinyā dakṣiṇottare |

Vanighiḥ saha nānābhiḥ janair yuktaṁ janāspadam |

Nagarasya prati-taṭe grāhakaś cha samāvṛitam |

Kraya-vikraya-samyuktaṁ droṇāntaram udāhṛitam |

(*M.*, x, 75-78.)

A class of pavilion.—(*M.*, xxxiv, 423 ; *see* under MAṆḌAPA.)

DRONA-MUKHA—A fort, a fortified town, a fortress.

A fortress to defend a group of 400 villages :

(1) Chatuś-śata-grāmyā droṇa-mukham |

(*Kauṣṭhiya-Artha-śāstra*, Chap. xxii, p. 46.)

(2) Nagarāṇi kara-varjitāni nigama-vanijām sthānāni janapadā  
deśāḥ pura-varāṇi nagaraika-deśa-bhutāni droṇa-mukhāni  
jala-sthalapathopetāni |

(*Praśna-Vyākaraṇa-sūtra-vyākhyāna*,  
p. 306, *ibid.*, p. 46, footnote.)

(3) Grāma-nagara-kheḍa-karvvaḍa-maḍamba-droṇa-mukha-pat-  
tana-galiṁdam aneka-māṭa-kūṭa-prāsāda-devāyatanamgaḷ-iṁdam-  
oppuva-agrahāra-paṭṭanamgaliṁdamatisāyav-appa. . . .

[At Tridāla, a merchant town situated in the centre and the first in importance among the twelve (towns), in the glorious Kuṇḍi Threc-Thousand adorned with] 'villages, towns, hamlets, villages surrounded by hills, groups of villages, sea-girt towns and chief cities, with elegant mansions, palaces and temples, and with shining agrahāra towns in the country of Kuntala.'—(Old Kanarese Inscip. at Terdal, line 58, *Ind. Ant.*, Vol. xiv, pp. 19, 25.)

(4) ' With myriads of people, practices of virtue, agreeable occupations, streams of the (nine) sentiments, pleasure gardens, separated lovers, splendid tanks, full lotus-beds, gilded boats for spring festivals, ghaṭikā-sthānas (religious centres), the supports of dharma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus faces of beautiful women fair as the moon (grāma-nagara-kheḍa-kharvvana-madamba-droṇa-mukha-pura-pattana-rāja-dhāni), on whatever side one looked, in these nine forms did the Kuntala-des shine.'

(It should be noticed that the passage within brackets is almost identical with the corresponding passage in quotation no. 3 above.)

(*Ep. Carnat.*, Vol. vii, Shikārpur Taluq, no. 197 ; Transl., p. 124, para. 1, last seven lines ; Roman Text, p. 214, line 27 f.)

DVĀ-DAŚA-TALA—The twelve-storeyed buildings, the twelfth storey.

(1) See *Mānasāra* (Chap. xxx, 1-191, ten classes, *ibid.* 5-7, 8-36, see under PRĀSĀDA ; the general description of the twelfth storey, *ibid.*, 37-88, 89-191).

(2) Tad-adhastāt talaṃ chaikādaśa-dvā-daśa-bhūmikam ।

(*Kāmkāgama*, xxxv, 86.)

(3) Ādvā-daśa-talād evaṃ bhūmau bhūmau prakalpayat ।

(*Suprabhedāgama*, xxxi, 33.)

DVĀRA—A door, a gate, an entrance. Compare GURUDVĀRA.

(1) *Mānasāra* (Chap. xxxviii, 2-54 ; xxxix, 1-163) :

The situation of gates in the village or town (called Nandyāvarta) :

Grāmasya parito bāhye rakshārthaṃ vapra-saṃyutam ।

Tad-bahiḥ parito yukataṃ paritoya-pravedakaiḥ ।

Chatur-dikshu chatush-koṇe mahā-dvāraṃ prakalpayet ।

Vṛittaṃ vā chatur-aśraṃ vā vāstu-sva(-ā)-kṛiti-vaprayuk ।

Pūrva-dvāraṃ athaiśāne chāgni-dvāraṃ tu dakshiṇe ।

Pitur dvāraṃ tu tat-pratyag vāyau dvāraṃ tathottaram ।

Pūrva-paśchima-tad-dvārau (-rayoḥ) ṛiju-sutraṃ tu yojayet ।

Dakṣiṇottarayor dvārau tatra śeṣaṃ (-deśe) viśeshataḥ ।

Dakṣiṇottarataḥ sūtraṃ vinyasech chhilpavit-tamaḥ ।

Tasya sūtrāt tu tat-pūrve hastaṃ tad-dvāra-madhyame ।

Evaṃ dakṣiṇato dvāraṃ tad-dhi tāro(-raṃ) tathoktavat ।

Uttare dvāraṃ tat sūtrāt pratyag-hastāvasānakam ।

Chatur-dikshu chatur-dvāraṃ yuktaṃ vā neshyate budhaiḥ ।  
 Pūrve paśchimake vāpi dvāraṃ etad(-kaṃ) dvayor api ।  
 Paritāḥ chatur-aśrāgrād dvāraṃ kuryāt tu sarvādā ।  
 Etat sarvaṃ mahā-dvāraṃ upa-dvāraṃ ichochyate ।

The smaller doors :

Nāge vāpi mṛige vātha aditiś-chodito'pi vā ।  
 Parjanya vāntarikshe vā pūshe vā vitathe'thavā ।  
 Gandharve bhṛṅgarāje vā sugrīve vāsurre'thavā ।  
 Yatheshṭ(am)evam upa-dvāraṃ kuryāt tal-lakṣhaṇoktavat ।

The water-doors (drains) :

Mukhyake vātha bhallaṭe mṛige vā chodite'pi vā ।  
 Jayante vā mahendre vā satyake vā bhṛīse'thavā ।  
 Evam evaṃ jala-dvāraṃ kuryāt tatra vichakṣaṇa ।

(*M.*, ix, 290-313.)

The gates of villages :

Svastikāgraṃ chatur-dikshu dvāraṃ teshāṃ prakalpayet ।  
 Evaṃ chāshṭa-mahā-dvāraṃ dikshu dikshu dvayaṃ tataḥ ।  
 Mṛige chaivāntarikshe vā bhṛṅgarāja-bhṛīse tathā ।  
 Śeshe vāpi cha roge vā chādītau chodite'pi vā ।  
 Evam etad upa-dvāraṃ kuryāt tatra vichakṣaṇaḥ ।  
 Mahā-dvāraṃ tu sarveshāṃ lāṅgalākāra-sannibham ।  
 Kapāṭa-dvaya-saṃyuktaṃ dvāraṇāṃ tat pṛithak pṛithak ।

(*Ibid.*, 355-361.)

Chatur-dikshu chatur-dvāraṃ upa-dvāraṃ antarālake ।  
 Devānāṃ chakravartināṃ madhye dvāraṃ prakalpayet ।  
 Mahā-dvāraṃ iti proktam upa-dvāraṃ tu choktavat ।  
 Bhū-surādi-naraṇāṃ cha madhye dvārāṃ na (cha) yojayet ।  
 Madhya-sūtraṃ tu vāme tu harmya-dvāraṃ prakalpayet ।

(*M.*, xxxi, 77-81.)

Referring to the two-storeyed buildings :

Tat-pure madhyame dvāraṃ gavākshaṃ vātha kalpayet ।  
 Dakṣiṇe madhyame dvāraṃ syād agre madhya-maṇḍapam ।  
 Chatur-dvāra-saṃyuktaṃ pūrve sopāna-saṃyutam ।

(*M.*, xx, 81-83.)

Two entire chapters are devoted to the description of doors of the residential buildings and temples, in one of which (*Chap.* xxxix, 1-163), the measurement and the component parts and mouldings are given ; mainly the situation of the doors is described in the other (*Chap.* xxxviii, 2-54).

It is stated (Chap. xxxix) that the height of the door should be twice its width (line 14). But various alternative measures are also given, (lines 17-18). The height may vary from  $1\frac{1}{2}$  cubits to 7 cubits (line 7). The height of the smaller doors vary from 1 cubit to 3 cubits (lines 9-10). The height of the windows which are sometimes made in place of smaller doors vary from half a cubit to 2 cubits. This measurement is prescribed for doors in the Jāti class of buildings (line 28). Such other measurements are given to doors of buildings of the Chhanda, Vikalpa, and Ābhasa classes (line 29 f.). The pillars, joints, planks, shutters, panels, frames, and other parts of doors are described at great length (lines 50, 111-163). Doors are generally of two flaps; but one-flapped door are also mentioned (line 98).

Doors are profusely decorated with the carvings of leaves and creepers (line 116). The images of Ganeśa, Sarasvatī and other deities are also carved on both sides of a door (cf. the concluding portions of Chaps. xix, xxx).

The chapter closes with a lengthy description of the six or rather the four main parts of doors. The door-panel (kavāṭa), door-joint (dvāra-sandhi), door-plank (phalaka), bolt (kilabhājana), etc. are minutely described (line 137 f.).

It is stated (Chap. xxxviii) that four main doors should be constructed on the four sides of all kinds of buildings of gods and men (lines 2-4) and the smaller doors are stated to be constructed at convenient places (line 4). Many other still smaller doors are constructed at the intervening spaces (lines 19, etc). The gutters are made conveniently, and sloped downwards (lines 5-7). Drains or jala-dvāra (water-gate) are made beneath the halls (line 8). The main doors are always furnished with a flight of stairs (line 12).

In some residential buildings the entrance door is made, not in the middle of the frontage, but on either side of the middle (line 17), although the general rule is to make the door in the middle of the (front wall, lines 6, etc.). But in temples and in case of kitchens in particular, the doors are generally made at the middle of the wall (line 35, see also Chap. xxxix, 140). For the easy upward passage (ūrdhva-gamana) of the kitchen smoke, they are furnished with the lattice (jāla, line 37).

(2) Varāha-mihira (*Bṛihat-Saṁhitā*, LIII, 26-27, 70-82; LVI, 10) has condensed the contents of the two chapters, dealing with the measurement of door (dvāra-māna) and situation of the door (dvāra-sthāna) of the *Mānasāra*. But he does not give any absolute measurement. As

regards the situation of door, the principle seems to be two-fold in all the architectural treatises. 'The door is made on either side of the middle of the wall, mostly in private residential buildings for ladies in particular.' But according to Rām Rāz (p. 46) 'if the front of the house be ten paces in length, the entrance should be between five on the right and four on the left.'

After this, Dr. Kern quotes Utpala to show the different principles :

Tathā cha kāryāṇi yathā bhananam ḡrīhābhyāntaram aṅgaṇam viśatām tāny-eva vāsa-ḡrīhāṇi dakṣiṇato dakṣiṇasyām diśi bhavanti । Etad uktaṁ bhavati prāṇ-mukhasya ḡrīhasyāṅgaṇa-(syā-gāra)-dvāram uttararābhimukhaṁ kāryam dakṣiṇābhimukhasya prāṇ mukhaṁ paśchimābhimukhasya dakṣiṇābhimukham uttarābhimukhasya paśchimābhimukham iti ।

'How a house can be said to face the east, without having its door facing the same quarter, is beyond our comprehension.' Kern. Compare no. 4 below.

(*J.R.A.S.*, N. S., Vol. VI, p. 291, note 1.)

Varāha-mihira himself, however, states (*Bṛihat-Saṁhitā*, LVI, 10) the most general principle of the position of the door, which Dr. Kern does not seem to have taken any notice of (compare his translation of the following verse, *J. R. A. S.*, N. S., Vol. VI, p. 318) :

Chatuḥ-shaṣṭi-padaṁ kāryam devāyatanam sadā ।

Dvāram cha madhyamaṁ tatra samadikṣtam praśasyate ॥

The (area of the) temple is always divided into 64 squares (*see PĀDA-VINYĀSA*). Therein (i.e. in the temple) the door is made at the middle (of the front wall) and it is highly commendable, when the door is placed at the same line (*lit.* same direction) with the idol.'

Dr. Kern interprets the second line as 'the middle door in one of the four cardinal points.' The rules in the *Mānasāra* as also the existing temples support the interpretation, namely, 'the door is made at the middle' (of the front wall).

(3) *Vāstu-sāra* (by one Maṇḍana, Ahmedabad, 1878) lays down (1, 6) that the house may have the front side (with entrance) at any direction according to the choice of the occupants, and states distinctly that the face of the house may be made at four directions (*kuryāch chatur-diśam mukham*).

(4) *Gārga-Saṁhitā* (MS. R. 15, 96, Trinity College, Cambridge) has apparently three chapters on the subject of door : dimensions of door (*dvāra-pramāṇa*, fol. 57b, 68b, same as *dvāra-māna* of the *Mānasāra*) ;

situation of door (dvāra-nirdeśa, Chap. III, fol. 57a, corresponds more or less with dvāra-sthāna or position of door, of the *Mānasāra*) ; and height of the door-pillar (dvāra-stambhochchhraya-vidhi, fol. 60b) ; there is no such separate chapter in the *Mānasāra*, although door pillars are occasionally described.

As regards dvāra-dosha (penalties of defective doors), Varāhamihira seems to have condensed (*Bṛihat-Saṁhitā*, LIII, 72-80) the contents of Gārga (fol. 68b).

(5) *Vāstu-śāstra* (of Rājavallabha Maṇḍana, v. 28, ed. Nārāyaṇa Bhārati and Yaśovanta Bhārati, Anahillapura, S. V. 947) :

Dvāraṁ matsya-matānusāri daśakaṁ योग्याṁ vidheyāṁ बुद्धयि—‘ following the rules of the *Matsya-Purāṇa* the learned (architects) recommend ten suitable doors (for a building)’.

(6) *Vāstu-pravandha* (II, 8, compiled by Rājakisora Varmma) :

Dvārasyo pari ya(d)-dvāraṁ dvārasyānyā (?) cha saṁmukham ।  
Vyayadaṁ tu yadā tach cha na karttavyaṁ śubhepsubhiḥ ॥

‘ Those, who want prosperity, should not make one door above or in front of another because it is expensive.’

(7) *Śilpa-śāstra-sāra-saṁgraha*. VII, 24 :

Chatur-dvāraṁ chatur-dikshu chaturaṁ (?) cha gavākśhakaṁ ।  
Nṛipāṇāṁ bhavane śreṣṭham anyatra parivarjayet ॥

‘ It is highly commendable for the buildings of the kings to make four doors at four directions and four windows. This rule need not be observed in other cases.’

(8) *Bhaviṣya-Purāṇa* (Chap. cxxx, v. 17) has the same verse as (2) except that it reads ‘ samadik saṁpraśasyate ’ in place of ‘ samadiksthaṁ praśasyate ’ of the *Bṛihat-Saṁhitā*.

(9) *Matsya-Purāṇa* (Chap. cclv, vv. 7-9) :

Vāsa-gehaṁ sarveshāṁ pravieśed dakṣiṇena tu ।  
Dvārāṇi tu pravakṣhyāmi praśastāṅhi yāni tu ॥  
Pūrveṇendraṁ jayantaṁ cha dvāraṁ sarvatra śasyate ।  
Yāmyaṁ cha vitathaṁ chaiva dakṣiṇena vidur budhāḥ ॥  
Paśchime pushpadantaṁ cha vāruṇaṁ cha praśasyate ।  
Uttareṇa tu bhallāṭaṁ saumyaṁ tu śubhadāṁ bhavet ॥

For all kinds of residential buildings the southern face of the house is expressly recommended here, while doors are directed to be constructed at all the eight cardinal points.

Cf. Daśa-dvārāṇi chaitāni krameṇoktāni sarvadā ।

(*Ibid.*, Chap. cclxx, v. 28.)



(10) *Agni-Purāṇa* (Chap. CIV, v. 24) :

Dikshu dvārāṇi kāryāṇi na vidikshu kadāchana ।

‘The doors should be constructed at the cardinal points and never at the intermediate corners’.

(11) *Garuḍa-Purāṇa* (Chap. XLVI, v. 31) :

Dvāraṁ dirghārdha-vistāraṁ dvārāṇy-aṣṭausmṛitāni cha ।

‘The breadth of the door should be half of its height (length) and there should be eight doors (in each house).’

(12) *Vāstu-vidyā* (ed. Gaṇapati Śāstri, IV, 1-2, 19-22; v. 21; XIII, 24-32, XIV, 1-3) :

Atha dve prāṇmukhe dvāre kuryād dve dakṣiṇāmukhe ।

Dvāre pratyaṇmukhe dve cha dve cha kuryād udaṇmukhe ॥ (1)

Māhendre prāṇmukhaṁ dvāraṁ praśastaṁ śiṣṭa-jātishu ।

Aparaṁ tu tathā dvāraṁ jayante prāha niśchayāt ॥ (2)

Antar-dvārāṇi choktāni bahir-dvāraṁ athochyate ॥ (19)

Yatronnataṁ tato dvāraṁ yatra nimnaṁ tato gṛham ।

Gṛihe chāpy-aṣṭame rāśau tatra dvāraṁ na kārayet । (20)

Gṛihakshate cha māhendre brāhmaṇānām prakirtitam ।

Mahīdhare cha some cha pha(bha)llāṭārgalayos tathā ॥ (21)

Śayanīyaṁ tu kartavyaṁ praśastaṁ pūrvataḥ śikhā ।

Nava-dvārākṛitaṁ kuryād antarikshe mahānasam ॥ (22)

Dvāraṁ yatra cha vihitam tad-dig-adhiśādhipaṁ bhaved dhāma ।

Eka-talaṁ vā dvi-talaṁ dvi-tale dvi-mukhaṁ cha nirmukhaṁ  
vā syāt ॥ (21)

Position of the door :

Dvāraṁ cha dikshu kartavyaṁ sarveshām api veśmanām ।

Madhyastha-dvāra-madhyam syād vāstu-mandira-sūtrayoḥ ॥ (24)

Upadvārāṇi yujyantāni pradakṣiṇyāt sva-yonitaḥ ।

Dvāra-pādasya vistāraṁ tulyam uttara-tārataḥ ॥ (25)

Sva-sva-yonyā gṛihādīnām kartavyā dvāra-yonayaḥ । (26)

Āgneyyāṁ mandiraṁ dvāraṁ dakṣiṇābhīmukhaṁ smṛitam ।

Pratyaṇmukhaṁ tu nairṛityāṁ vāyavyāṁ tad udaṇmukham ॥ (31)

Iśe tat prāṇmukhaṁ kuryāt tāni syuḥ pādukopari । (32)

Then follows the measurement of the mouldings of the door (26-30).

The door-panels are described next :

Kavāṭa-dvitayaṁ kuryān māṭri-putry-abhidhaṁ budhaḥ ।

Dvāra-tāre chatuṣ-pāñcha-ṣaṭ-saptāṣṭa vibhājite ॥ (1)

Ekāṁśa(m) sūtra-paṭṭiḥ syāt samaṁ vā bahalaṁ bhavet ।

Ardhaṁ vā pāda-bīṇaṁ vā bahalaṁ parikirtitam ॥ (2)

Dvārāyāma-samāyāmā kāryā yugmās cha paṅktayaḥ ।

Aśvyādi-veśma-paryantāḥ paṅktayaḥ parikirtitāḥ ॥ (3)

(13) *Maṅga-pratiṣṭhā*, by Raghunandana quotes from the *Devī-Purāṇa* without further reference :

Plākṣhaṁ dvāraṁ bhavet pūrve yāmye chaudumbaraṁ bhavet ।  
Paśchad aśvattha-ghaṭitaṁ naiyagrodhaṁ tathottare ।

(14) *Kauṣṭhīya-Artha-śāstra* (Chap. xxiv, pp. 52, 53, 54) :

Āgrāhye deśe pradhāvītikāṁ niskhura-dvāraṁ cha ।  
Prākāraṁ ubhayato maṅḍalaka-madhyārdha-daṇḍaṁ kṛtvā  
pratolī-shaṭ-tulāntaraṁ dvāraṁ niveśayet ।  
Pañcha-hasta-maṇi-dvāraṁ ।

Prākāra-madhye kṛtvā vāpīṁ pushkariṇīm dvāraṁ chatuṣ-śā-  
lam adhyardhāntarāṇikāṁ kumārī-puraṁ muṅḍa-harmyaṁ dvi-  
talaṁ muṅḍaka-dvāraṁ bhūmi-dravya-vaśena vā tri-bhāgādhi-  
kāyāmāḥ bhāṇḍa-vāhini-kulyāḥ kārayet ।

Sa-dvādaśa-dvāro yuktodaka-bhūmich-chhanna-pathaḥ ।

Saināpatyāni dvārāṇi bahiḥ parikhāyāḥ ।

(*Ibid.*, Chap. xxv, p. 54 f.)

Kishku-mātra-maṇi-dvāraṁ antarikāyāṁ khaṇḍa-phullārtham  
asaṁpātaṁ kārayet ।

Pratiloma-dvāra-vātāyana-bādhāyāṁ cha anyatra rāja-mārga-  
rathyābhyaḥ ।

(*Ibid.*, Chap. lxv, pp. 166, 167.)

(15) *Rāmāyaṇa* (Laṅkākāṇḍa, Sarga 3, 1, 11, 13, 16) :

Dṛiḍha-vaddha-kapāṭāni mahā-parigha-vanti cha ।

Chatvāri vipulāny-asyā dvārāṇi sumahānti cha ॥ (11)

Dvāreshu saṁskṛitā bhīmāḥ kālāya-samayāḥ śītāḥ ।

Śataśo rachitā vīraiḥ śataghnyo rakshasā gaṇaiḥ ॥ (13)

Dvāreshu tāsāṁ chatvāraḥ sakramāḥ paramāyatāḥ ॥

Yantrair upetā bahubhir mahadbhir gṛiha-paṅktibhiḥ ॥ (16)

(16) *Kāmikāgama* (xxxv, 6-13) :

Bhallāṭe pushpadante cha mahendre cha gṛahā(gṛiha)kshate ।

Chatuṣ-dvāraṁ prakartavyaṁ sarveshām api vāstūnām ॥ (6)

Then are given the details concerning the position of doors in various quarters (7-9). Next follows their measurement (10-13).

*Cf.* Devānām manujānām cha viśeshād rāja-dhāmani ।

Pushpadante cha bhallāṭe mahendre cha gṛahā(gṛiha)kshate ॥

Upa-madhye'thavā dvāraṁ upa-dvāraṁ tu vā nayet ॥

(*Ibid.*, v. 118, 118a.)

Pratyaṅmukhaṁ tu śayanam doshadam dakṣiṇāmukham ।

Dvāre pādetu neshṭa(m) syāt nodak-pratyak chh(ś)iro bhavet ॥

Bhojanam nānuvaśam syāch chhayanam cha tathaiva cha ।

Anuvaśa-gṛiha-dvāraṁ naiva kāryam śubhārthibhiḥ ॥

(*Ibid.*, v. 146, 157.)

Bhallaṭe dvāram iṣṭaṁ syād brāhmaṇānāṁ viśchataḥ ॥  
Madhya-sūtrasya vāme vā dvāraṁ vidhivad ācharet ॥

(*Ibid.*, v. 165, 168.)

Jāla-dvāraṁ punas teshāṁ pravakshyāmi niveśānām ।

(*Ibid.*, v. 167-176.)

Devānām ubhayaṁ grāhyaṁ madhya-dvāraṁ tu vai tale ॥

Gopuraṁ cha khalūri cha mūla-vāstu-nirikshitam ॥

Antare rāja-devinām grihāny-antar-mukhāni cha ॥

(*Ibid.*, xxxv, 54, 128.)

Daṇḍikā-vāra-saṁyuktaṁ shaṇ-netra-sama-varṁśakam ।

Vaṁsopari gatāḥ śālās chattāro'shṭānanānvitāḥ ॥

(*Ibid.*, xlii, 19.)

(17) *Suprabhedāgama* (xxxI, 7, 131-133) :

Bāhya-bhittau chatur-dvāram athavā dvāram ekataḥ ॥ (7)

Referring to the temples of the attendant deities built in the five courts (prākāra) :

Prākāra-saṁyutaṁ kṛtvā bāhye vābhyantare'pi vā ।

Pūrve tu paśchime dvāraṁ paśchime pūrvato mukham ॥ (131)

Dakṣiṇe chottara-dvāram uttare dakṣiṇonmukham ।

Vahnīśāna-sthitaṁ yat tat paśchime dvāram ishyate ॥ (132)

Nilānila-sthitaṁ chaiva pūrva-dvāraṁ praśasyate ।

Vṛishasya maṇḍapaṁ tatra chatur-dvāra-saṁyutaṁ ॥ (133)

(18) *Mahābhārata* (v, 91, 3 ; 1, 185, 119-122) :

Tasya (duryodhana-grihasya) kakshyā vyatikramya tisro dvāh-  
sthair avāritaḥ ॥

Prāsādaiḥ sukṛitochhrayaiḥ ॥

Suvarṇajāla-saṁvṛitair maṇi-kuṭṭima-bhūṣhaṇaiḥ ॥

Sukhārohaṇa-sopānair mahāsana-parichchhadaiḥ ॥

Asambādha-śata-dvāraiḥ śayanāsana-śobhitaiḥ ॥

(19) *See Ep. Ind.* (Vol. I, Dabhoi Inscip, v. 111, p. 31).

(20) Vijaya-vikshepāt bharukaḥchha-pradvāravasakaṭat—'from the camp of victory fixed before the gates of Bharukachchha.'—(Umetā grant of Dadda II, line 1, *Ind. Ant.*, Vol. vii, pp. 63, 64.)

(21) Svarṇa-dvāraṁ sthāpitaṁ toraṇena sārddham śrīmal-lokanāthasya gehe—'placed a golden door and a toraṇa in the temple of glorious Lokanātha.'

'The inscription is on the lintel or the door of the temple of Avalokiteśvara in Bungmati. The door is made of gilt brass plates, and adorned by relieves. The arch or toraṇa above the door, which is likewise made of brass, encloses three images of Lokēśvara.'—(Inscriptions from Nepal, no. 21, *Inscip. of Śrinivāsa*, line 6 f., *Ind. Ant.*, Vol. ix, p. 192, note 62.)

(22) Ātirtha-dvāra-paksha-śobhārtham mādisidam—' had the side-doors of that tīrtha made for beauty.'—(*Ep. Carnat.*, Vol. II, no. 115; Roman Text, p. 87; Transl., p. 171.)

(23) See Chālukyān Architecture.—(*Arch. Surv.*, New Imp. Series, Vol. XII, Plates v, figs. 1, 2; LIV; LXXIV; XCV; CXXIII, figs. 1, 2.)

(24) See Buddhist Cave Temples.—(*Ibid.*, Vol. IV, Plates XXIV; XXXIV, no. 1; XXXII, nos. 1, 2; XXXV; XLIII, no. 2.)

(25) See Cunningham's *Arch. Surv. Reports*.—(Vol. XIX, Plates XIX.)

DVĀRAKA—A gate-house.

Prāsāde maṇḍape sarve gopure dvārake tathā |

Sarva-harmyake kuryāt tan-mukka-bhadram |—(*M.*, xviii, 326-328.)

DVĀRA-GOPURA (same as MAHĀ-GOPURA)—The gate-house of the fifth or last court.

(*Suprabhedāgama*, xxxi, 125; see under PRĀKĀRA.)

DVĀRA-KOSHṬHA(-KA)—A gate-chamber.

The index of the Divyāvadāna quoted by way of comparison with Svakiyāvāsanikā-dvāroshṭha, dvāroshṭha-nishkāsapraveśaka, and nishkāsa-praveśa-dvāroshṭhaka.

(Siyodoni Inscrip., lines 14, 32, 33,

*Ep. Ind.*, Vol. 1, pp. 165, 175, 177.)

DVĀRA-PRĀSĀDA—The gate-house of the third court.

See *Mānasāra* (xxxiii, 9, under GOPURA).

See also *Suprabhedāgama* (xxxI, 124, under PRĀKĀRA).

DVĀRA-ŚĀKHĀ (see ŚĀKHĀ)—The door-lintel, the door-frame, jamb or post.

'He, the emperor of the South, caused to be made of stone for Vijaya-nārāyaṇa (temple), latticed window, secure door-frame, door-lintel (*dvāra-sakhali*), kitchen, ramparts, pavilion and a pond named Vāsudeva-tīrtha.'

(*Ep. Carnat.*, Vol. v, Part I, Belure Taluq, no. 72;

Transl. p. 61; Roman Text, p. 142. line 7.)

DVĀRA-ŚĀLĀ (see GOPURA)—A gate-house.

The gate-house of the second court.

(*M.*, xxxiii, 8, and *Suprabhedāgama*,

xxxI, 124; see under PRĀKĀRA.)

DVĀRA-ŚOBHĀ (see GOPURA)—A gate-house.

The gate-house of the first court.

(*M.*, xxxiii, 8, and *Suprabhedāgama*,

xxxI, 123; see under PRĀKĀRA.)

DVĀRA-HARMYA (*see* GOPURA)—A gate-house.

The gate-house of the fourth court.

(*M.*, XXXIII, 9, and *Suprabhedāgama*, XXXI, 125; *see* under PRĀKĀRA.)

DVI-TALA—The two-storeyed buildings.

*Mānasāra* describes the two-storeyed buildings in a separate chapter (xx, 1-115); the eight classes (*ibid.*, 2-45; *see* under PRĀSĀDA); the general description of the second floor (*ibid.*, 46-115).

*Cf.* Purato'sya shoḍaśānām varāṅgakānām dvi-bhumika-gṛihāṇi ālīdvayena ramyāny-achīkaraj jaya-sainyēsaḥ—'in front of the temple he (Jaya) erected two rows of double-storeyed house for sixteen female attendants.'—(Chebrolu Insc. of Jaya, v. 46, *Ep. Ind.*, Vol. vi, pp. 40, 39.)

DVI-TĀLA—A sculptural measure (*see* details under TĀLA-MĀNA.)

DVI-PAKSHA (*cf.* EKA-PAKSHA)—Two sides, a street (or wall) having footpaths on both sides.

Dakṣhiṇottara-rathyam tat tat samkhyā yatheshṭakā |

Evaṁ vithir dvi-paksham(-shā) syān madhya-rathyena(-ka)-pakshakam |

Tasya mūlāgrayo(r) deśa kshatra( ? kskudro)-mānam prakārayet |

Bāhya-vithir dvi-paksham(-shā) syāt tad-bahiś chāvṛitam budhaiḥ |

(*M.*, ix, 350-353.)

Rathyā sarvā dvi-paksham(-shā) syāt tiryam-mārgam yathecchhaya |

(*Ibid.*, 465. *See also* *M.*, ix, 396; xxxvi, 86-87; under EKA-PAKSHA.)

DVI-VAJRAKA—A column with sixteen rectangular sides.

*Cf.* Vajro'shṭāśrir dvi-vajrako dvi-guṇaḥ |

(*Bṛihat-Saṁhitā*, LIII, 28; *see* under STAMBHA.)

DVYAŚRA-VṚITTA—A two-angled circle, an oval building.

(*M.*, XIX, 171; xi, 3, etc.; *see* under PRĀSĀDA.)

## DH

DHANADA (*see* UTSEDHA)—A type of pavilion, a kind of height, an image.

A height which is  $1\frac{1}{4}$  of the breadth of an object—(*See* *M.*, xxxv, 22-26 and *cf.* *Kāmikāgama*, I, 24-28, under ADHIUTA.)

The image of the god of wealth—(*M.*, xxxii, 140.)

A class of pavilions—(*M.*, xxxiu, 398; *see* under MAṆḌAPA.)

**DHANUR-GRAHA**—A measure, a cubit (*hasta*) of 27 *aṅgulas*.

(*M.*, II, 52, and *Suprabhedāgama*,  
XXX, 26; see under *ANĠULA*.)

**DHANUR-MUSHTI**—A measure, a cubit (*hasta*) of 26 *aṅgulas*.

(*M.*, II, 51, and *Suprabhedāgama*,  
XXX, 26; see under *ANĠULA*.)

**DHANUS**—A measure of four cubits.

(*M.*, II, 53; see under *ANĠULA*.)

**DHANVA-DURGA**—A fort (see details under *DURGA*).

**DHAMMILLA**—The braided and ornamented hair of a woman tied round the head and intermixed with flowers, pearls, etc.

A headgear (*M.*, XLIX, 14, etc.).

**DHARMA-GANJA**—A library in the University of Nalanda, comprising three buildings known as *Ratnodadhi*, *Ratnasāgara*, and *Ratnaranjaka*.

(Tibetan account of the University of Nalanda.)

**DHARMA-DHĀTU-MANḌALA**—The relic shrine of Nepalese temples, situated at the fourth storey of five-storeyed pagoda-like structures, the basal floor being occupied by Śākya-muṇi, second by Amitābha, the third being a small chaitya, and the fifth or apex being called *vajra-dhātu-maṇḍala*.

(See *Deva Bhavāni* temple, Bhatgaon, Fergusson :  
*History of Ind. and East. Arch.*, 1910,  
Vol. I, p. 281.)

**DHARMA-RĀJIKĀ**—A monument, a tope.

Tau darmma-rājikāṁ saṅgaṁ dharmma-chakraṁ punar navam ।

‘They repaired the *dharmma-rājikā* (i.e. *stūpa*) and the *dharmma-chakra* with all its parts.’—(Sarnath Insc. of Mahipāla, line 2, *Ind. Ant.*, Vol. XIV, p. 140, note 6.)

**DHARMA-ŚĀLĀ**—A rest-house.

(Vincent Smith, *Gloss.*, *loc. cit.*, to  
Cunningham’s *Arch. Surv. Reports*.)

**DHARMA-STAMBHA**—A kind of pillar.

(*M.*, XLVII, 14; see under *STAMBHA*.)

**DHARMĀLAYA**—A rest-house.

Tatraiva sa(t)tra-śālā vā āgneye pāniya-maṇḍapam ।  
Anyā-dharmālayaṁ sarvaṁ yatheshtaṁ dīśato bhavet ।

(*M.*, IX, 139-140.)

**DHĀTU** (*cf.* TRIDHĀTUSARANA)—Storey. (R.-V., iv, 200.)

**DHĀTU-GARBHA**—Buddhist dagoba, same as chaitya and as stūpa, the relic receptacle or inner shrine, and is 'strictly applicable only to the dome of the stūpa, sometimes called the *aṇḍa* or egg.' These monuments were 'not merely relics in the literal sense, but memorials in an extended acceptation, and were classified as corporeal remains; objects belonging to the teacher, as his staff, bowl, robe holy spots, etc., and any memorial, text of a sacred book, cenotaph of a teacher, etc.'

**DHĀNYA-STAMBHA**—A kind of pillar.

(M., XLVII, 14; *see* under STAMBHA.)

**DHĀMAN**—A dwelling house.

(R.-V., I, 144, 1; II, 3, 2; III, 55, 10; VIII, 61, 4; X, 13, 1; A.-V., IV, 25, 7; VII, 68, 1; XII, 52; *Vāj. Sam.*, IV, 34; *Taitt. Sam.*, II, 7, 2.)

**DHĀRAṆA**—A type of building, a pillar, a roof, a tree.

A class of the seven-storeyed buildings.

(M., XXV, 26; *see* under PRĀSĀDA.)

A synonym of pillar (M., xv, 6) and of roof (M., xvi, 52).

A kind of tree of which pillars are constructed (M., xv, 348-350).

**DHĀRĀ-KUMBHA**—A moulding of the base.

(M., XIV, 46; *see* the lists of mouldings, under ADHISHTHĀNA.)

**DHĀRĀ-NĪLA**—A blue stream of water, the line of sacred water descending from the phallus.

In connexion with the phallus:

Garbha-geha-sthale dhārā-nīla-madhye samam bhavet |

(M., LI, 173.)

**DHĀRĀ-LIṄGA**—A kind of phallus with fluting at the top portion.

(M., LI, 135; LIII, 48; *see* details under LIṄGA.)

**DHVAJA-STAMBHA** (*see* STAMBHA)—Flagstuffs, free-pillars erected generally by the worshippers of Śiva, a pillar or pilaster decorated with banner or flag (dhvaja) at the top.

## N

**NAKULA**—The cage of the mungoose (M., I, 245; *see* under BHŪSHANA).

NAKHA—The nail, its measurement, etc., when belonging to an image.

(*M.*, LIX, LKV, etc., 21.)

NAKSHATRA-MĀLĀ—The garland of stars, an ornament.

(*M.*, I, 297 ; see under *BRUḤAṆA*.)

NAGARA(-RI) (*cf.* GRĀMA)—Probably from Naga, *lit.* immovable or rock, implying permanence and strength with reference to stone-walls, etc. The *pur*s were mere fort while *pura* as in Tripura and Mahāpura was something much bigger (*Tait. Sam.*, VI, 2, 3, 4 ; *Kāth. Sam.*, XXIV, 10 ; *Sat. Brā.* VI, 3, 3, 35 ; *Ait. Brā.*, II, 11 ; *Mait. Sam.*, III, 8, 1). Thus *pur* might have been the prototype of *pura*, the developed city, and *nagara* the full-fledged capital city.

(1) Definition :

Janaiḥ parivṛitaṁ dravya-kṛaya-vikrayakādibhiḥ |  
Aneka-jāti-saṁyuktaṁ karmakāraiḥ samanvitam ||  
Sarva-devatā-saṁyuktaṁ nagaraṁ chābhidhīyate ||

(*Kāmikāgama*, XX, 5-6.)

(2) Dhaṇu-śataṁ parihāro grāmasya syāt samantataḥ |  
Samyāpātās trayo vāpi tri-guṇo nagarasya tu ||

(*Manu-Saṁhitā*, VIII, 237.)

(3) Dhaṇuḥ-śataṁ parihāro grāma-kshetrāntaraṁ bhavet |  
Dve śate kharvaṭasya svāu nagarasya chatuḥ śatam ||

(*Yājñavalkya*, II, 167.)

(4) Nagarādi-vāstuṁ cha vakshye rājyāci-vṛiddhaye |  
Yojanaṁ yojanārddhaṁ vā tad-arthaṁ sthānam āśrayet ||  
Abhyarchya vāstu-nagaraṁ prakārādyaṁ tu kārayet |  
Īśādi-triṁśat-padake pūrva-dvāraṁ cha sūryake ||  
Gandharvābhyāṁ dakshiṇe syād vāruṇye paśchime tathā |  
Saumya-dvāraṁ saumya-pade kārya haṭyās tu vistarāḥ ||

(*Agni-Purāṇa*, Chap. CVI, v. 1-3.)

Then follows the location of the people of different castes and professions in various quarters (*ibid.*, v. 6-17).

(5) Chhinna-karṇa-vikarṇaṁ cha vyajanākṛiti-saṁsthitam ||  
Vṛittaṁ vajraṁ cha dirghaṁ cha nagaraṁ na praśasyate ||

(*Brahmaṇḍa-Purāṇa*, Part I and Anushāgana-pāda, Chap. VII, vv. 107, 108 ; see also vv. 94, 110, 111.)



- (6) *Kautilya-Artha-Sastra* (Chap. XXII, p. 46, footnote) :  
Nagarām rāja-dhāni !

(*Rāyaprasenī-sūtra-vyākhyāne*, p. 206.)

Nagrāpi kara-varjitāni nigama-vañijām sthānāni !

(*Prasna-vyākaraṇa-sūtra-vyākhyāne*, p. 306.)

- (7) *Mānasara* (Chap. x, named Nagara) :

The dimension of the smallest town unit is 100×200×4 cubits; the largest town-unit is 7200×14400×4 cubits (lines 3-33). A town may be laid out from east to west or north to south according to the position it occupies (line 102). There should be one to twelve large streets in a town (lines 110-111). It should be built near a sea, river or mountain (lines 73, 51), and should have facilities for trade and commerce (lines 48, 74) with the foreigners (line 63). It should have defensive walls, ditches and forts (line 47) like a village. There should be gate-houses (gopura, line 46), gates, drains, parks, commons, shops, exchanges, temples, guest houses, colleges (line 48 f.) etc., on a bigger scale than in a village.

Towns are divided into eight classes, namely, Rāja-dhāni, Nagara, Pura, Nag. .i, Kheṭa, Kharvaṭa, Kubjaka, and Pattana (lines 36-38).

The general description of towns given above is applicable more or less to all of these classes.

For purposes of defence, the capital towns commanding strategic points are well fortified and divided into the following classes : Śibira, Vāhini-mukha, Sthāniya, Droṇaka, Samvidda, Kolaka, Nigama, and Skandhāvāra (lines 38-41, 65-86). The forts for purely military purposes are called giri-durga, vana-durga, salila-durga, paṅka-durga, ratha-durga, deva-durga and miśra-durga (lines 86-87, lines 88-90 90-107; see under DURGA).

- (8) 'On the banks of the Sarayū is a large country called Kośala gay and happy and abounding with cattle, corn and wealth. In that country was a famous city called Ayodhyā, built formerly by Manu, the lord of men. A great city twelve yojanas (108 miles) in length and nine yojanas (81 miles) in breadth, the houses of which stood in triple and long extended rows. It was rich and perpetually adorned with new improvements, the streets and lanes were admirably disposed, and the principal streets well watered. It was filled with merchants of various descriptions, and adorned with abundance of jewels; difficult of access, filled with spacious houses, beautified with gardens,

and groves of mango trees, surrounded by a deep and impassable moat, and completely furnished with arms; was ornamented with stately gates and porticoes and constantly guarded by archers. As Maghavan protects Amarāvati, so did the magnanimous Daśaratha, the enlarger of his dominions, protects Ayodhyā, fortified by gates, firmly barred, adorned with areas disposed in regular order, and abounding with a variety of musical instruments and war-like weapons; and with artifices of every kind Prosperous, of unequalled splendour it was constantly crowded with charioteers and messengers, furnished with śataghnis (*lit.* an instrument capable of destroying a hundred at once, that is, a cannon) and parighas (a kind of club), adorned with banners and high-arched porticoes, constantly filled with dancing girls and musicians, crowded with elephants, horses and chariots, with merchants and ambassadors from various countries, frequented by the chariots of the gods, and adorned with the greatest magnificence. It was decorated with various kinds of jewels, filled with wealth, and amply supplied with provisions, beautified with temples and sacred chariots (large cars), adorned with gardens and bathing tanks and spacious buildings and full of inhabitants. It abounded with learned sages, in honour equal to the immortals; it was embellished with magnificent palaces, the domes of which resemble the tops of mountains, and surrounded with the chariots of the gods like the Amarāvati of Indra, it resembled a mine of jewels or the residence of Lakshmi (the goddess of prosperity); the walls were variegated with divers sorts of gems like the division of a chess-board, and it was filled with healthful and happy inhabitants; the houses formed one continued row, of equal height, resounding with the delightful music of the tabor, the flute and the harp.'

'The city, echoing with the twang of the bow, and sacred sound of the Veda was constantly filled with convivial assemblies and societies of happy men. It abounded with food of the most excellent kinds; the inhabitants were constantly fed with the śālī rice; it was perfumed with incense, chaplets of flowers, and articles for sacrifice, by their odour cheering the heart.'

'It was guarded by heroes in strength equal to the quarter-masters and versed in all śāstras; by warriors, who protect it, as the nāgas guard Bhogavati. As the Great Indra protects his capital, so was this city, resembling that of the gods, protected by King Daśaratha, the chief of the Ikshvākus. This city was inhabited by the twiceborn who maintained the constant sacrificial fire, (men) deeply read in the *Veda* and its six *Āngas*, endowed with excellent qualities, profusely generous,

full of truth, zeal, and compassion, equal to the great sages, and having their minds and appetites in complete subjection.'—(*Rāmāyaṇa*, I, 5, 5-17.)

'Lankā, filled with mad elephants, ever rejoiceth. She is great, thronging with cars and inhabited by Rākshasas. Her doors are firmly established and furnished with massy bolts. And she hath four wide and giant gates. (At those gates) are powerful and large arms, stones and engines, whereby a hostile host approaching is opposed. At the entrance are arrayed and set in order by bands of heroic Rākshasas, hundreds of sharp iron śatagnis (firearms, guns). She hath a mighty impassable golden wall, having its side emblazoned in the centre with costly stones, coral, lapises and pearls. Round about is a moat, exceedingly dreadful, with cool water, eminently grand, fathomless, containing ferocious aquatic animals, and inhabited by fishes. At the gates are four broad bridges, furnished with machines and many rows of grand structures. On the approach of the hostile forces, their attack is repulsed by these machines, and they are thrown into the ditch. One amongst these bridges is immovable, strong and fast established; adorned with golden pillars and daises . . . And dreadful and resembling a celestial citadel, Lankā cannot be ascended by means of any support. She hath fortresses composed of streams (*cf.* JALA-DURGA), those of hills, and artificial ones of four kinds. And way there is none even for barks, and all sides destitute of division. And that citadel is built on the mountain's brow; and resembling the metropolis of the immortals, the exceedingly invincible Lankā is filled with horses and elephants. And a moat and śatagnis and various engines adorn the city of Lankā, belonging to the wicked Rāvaṇa . . . his abode consists of woods, hills, moat, gateways, walls, and dwellings.'—(*Ibid.*, VI, Lankākāṇḍa, 3rd Sarga.)

(9) The *Mahābhārata* has 'short but comprehensive account of the city of Dvārakā (I, 111, 15), Indra-prastha (I, 207, 30 f.), the floating city (III, 173, 3), Mithilā (III, 207, 7), Rāvaṇa's Lankā (III, 283, 3 and 284, 4, 30), the sky-town (VIII, 33, 19), and the ideal town (XV, 5, 16). In the *Rāmāyaṇa* we find nearly the same descriptions as those in this later part of the Epic (*Mbh.*)'

(10) 'We may examine the general plan of a Hindu city . . . it had high, perhaps concentric, walls about it, in which were watch-towers. Massive gates, strong doors<sup>1</sup> protected chiefly by a wide bridge moat, the latter filled with crocodiles and armed with palings, guarded

<sup>1</sup> xv, 16, 3 : the king left Hastināpur by a high gate.

the walls. The store-house was built near the rampart. The city was laid out in several squares.<sup>1</sup> The streets were lighted with torches.<sup>2</sup> The traders and the king's court made this town their residence. The farmers lived in the country, each district guarded if not by a tower modelled on the great city, at least by a fort of some kind. Out of such fort grew the town. Round the town as round the village, was the 'ommon land to some distance' (later converted into public gardens, as we see in the *Mudrārākshasa*).

'In the city special palaces existed for the king, the princes, the chief priests, ministers and military officers. Besides these and humble dwellings (the larger houses being divided into various courts), there were various assembly halls, dancing-halls, liquor-saloons, gambling halls, courts of justice, and the booths of small traders with goldsmiths, shops, and the work-places of other artisans. The arsenal appears to have been not far from the king's apartments. Pleasure parks abounded. The royal palace appears always to have had its dancing-hall attached. The city-gates ranged in number from four to eleven, and were guarded by squads of men and single wardens.<sup>3</sup> Door-keepers guarded the courts of the palace as well as the city gates.'<sup>4</sup>—(Hopkins, *J.A.O.S.*, 13, pp. 175, 176.)

(11) 'It will probably be a revelation to modern architects to know how scientifically the problems of town-planning are treated in these ancient India's architectural treatises. Beneath a great deal of mysticism which may be scoffed at as pure superstition, there is a foundation of sound common sense and scientific knowledge which should appeal to the mind of the European expert.'

'The most advanced science of Europe has not yet improved upon the principles of the planning of the garden cities of India based upon the Indian village-plan as a unit.'

<sup>1</sup> The *Mbh.* recommends six squares, but I find only four mentioned in the *Rāmāyaṇa*, II, 48, 19.

*Mbh.*, xv, 5, 16 : Purāṇ Saptā-padaṇ sarvato-diśaṃ (town of seven walls, but Hopkins does not think that there were walls)

<sup>2</sup> *Rāmāyaṇa*, vi, 112, 42 : Sikta-rathyāntarāpaṇa.

*Mbh.*, I, 221, 36 : Indraprastha is described as sammrishtāsikta-panthā.

<sup>3</sup> *Kāthaka-Upanishad*, v, 1, speaks of a town with eleven gates as a possibility (the body is like a town with eleven gates.) Nine gates are given to a town by Varāṇa, p. 52, 5 : Nava dvāraṃ . . . ekastambhaṇ chatushpatham. Laṅkā has four bridged gates (eight in all and eight walls) (*R.*, vi, 93, 7). Four gates are implied in the 6th act of *Mṛichchhakaṭika* where the men are told to go to the four quarters to the gates.

<sup>4</sup> These courts have mosaic pavements of gold. (*R.*, vi, 37, 27, 58, *Mbh.*, I, 185, 20 ; II, 33 and 34.)

‘The Indo-Aryan villages took the layout of the garden-plot as the basis of its organization. But more probably the village scheme was originally the plan of the military camp of the Aryan tribes when they first established themselves in the valley of the Indus.’—(Havel *A Study of Indian Civilization*, pp. 7-8, 18.)

(12) The principles of Indian town-planning have some striking similarity to those of early European cities. It would be interesting to compare the *Mānasāra* with *Vitruvius* :

‘In setting out the walls of a city the choices of a healthy situation is of the first importance. It should be on high ground neither subject to fogs nor rains ; its aspects should be neither violently hot nor intensely cold, but temperate in both respects . . .

‘A city on the sea-side, exposed to the south or west, will be insalubrious.’—(*Vitruvius*, Book I, Chap. iv.)

‘When we are satisfied with the spot fixed on for the site of the city, as well as in respect of the goodness of the air as of the abundant supply of provisions for the support of the population, the communications by good roads and river or sea navigation for the transport of merchandise, we should take into consideration the method of constructing the walls and towers of the city. These foundations should be carried down to a solid bottom (*cf. Mānasāra* under *GARBHA-NYĀSA*) if such can be found, and should be built thereon of such thickness as may be necessary for the proper support of that part of the wall which stands above the natural level of the ground. They should be of the soundest workmanship and materials, and of greater thickness than the walls above. From the exterior face of the wall, towers must be projected, from which an approaching enemy may be annoyed by weapons, from the embrasures of those towers, right and left. An easy approach to the walls must be provided against ; indeed they should be surrounded by uneven ground, and the roads leading to the gates be winding and turn to the left from the gates. By this arrangement the right side of the attacking troops, which are not covered by their shields, will be open to the weapons of the besieged.’

‘The plan of the city should not be square, nor formed with acute angles, but polygonal, so that the motions of the enemy may be open to observation. . . .’

‘The thickness of the walls should be sufficient for two armed men to pass each other with ease. The walls ought to be tied, from front to rear, with many pieces of charred olive wood ; by which means the two faces, thus connected, will endure for ages.’

‘The distance between each tower should not exceed an arrow’s flight. . . . The walls will be intercepted by the lower parts of the towers

where they occur, leaving an interval equal to the width of the tower ; which space the tower will consequently occupy. The towers should be made either round or polygonal. A square (tower) is a bad form, on account of its being easily fractured at the quoins by the battering ram ; whereas the circular tower has this advantage, that when battered, the pieces of masonry whereof it is composed being cuneiform, they cannot be driven in towards their centre without displacing the whole mass. Nothing tends more to the security of walls and towers than backing them with walls or terraces ; it counteracts the effects of rams as well as of undermining.'

' In the construction of ramparts, very wide and deep trenches are to be first excavated ; the bottom of which must be still further dug out for receiving the foundation of the wall. This must be of sufficient thickness to resist the pressure of the earth against it. Then, according to the space requisite for drawing up the cohorts in military order on the ramparts, another wall is to be built within the former, towards the city. The outer and inner walls are then to be connected by cross walls, disposed on the plan after the manner of the teeth of a comb or a saw, so as to divide the pressure of the filling in earth into many and less forces, and thus prevent the walls from being thrust out.' The materials are stated to be ' what are found in the spot : such as square stones, flint, rubble stones, burnt or unburnt bricks.'—(*Vitruvius*, Book I, Chap. v.)

' The lanes and streets (of which no details are given) of the city being set out, the choice of sites for the convenience and use of the state remains to be decided on ; for sacred edifices, for the forum, and for other public buildings. If the place adjoin the sea, the forum should be seated close to the harbour ; if inland it should be in the centre of the town. The temples of the gods, protectors of the city, as those of Jupiter, Juno, and Minerva, should be on some eminence which commands a view of the greater part of the city. The temple of Mercury should be either in the forum or, as also the temple of Isis and Serapis in the great public square ; those of Apollo and Father Bacchus near the theatre. If there be neither amphitheatre nor gymnasium, the temple of Hercules should be near the circus. The temple of Mars should be out of the city, in the neighbouring country ; that of Venus near to the gate. According to the revelations of the Etrurian Haruspices, the temples of Venus, Vulcan and Mars should be so placed that those of the first be not in the way of contaminating the matrons and youth with the influence of lust ; that those of the Vulcan be away from the city, which would consequently freed from the danger of fire ; the divinity presiding over that element bring drawn away by the rites and sacrifices performing in his temple.

The temple of Mars should be also out of the city, that no armed frays may disturb the peace of the citizens, and that this divinity may, moreover, be ready to preserve them from their enemies and the perils of war. The temple of Ceres should be in a solitary spot out of the city, to which the public are not necessarily led but for the purpose of sacrificing to her. This spot is to be revered with religious awe and solemnity of demeanour by those whose affairs lead them to visit it. Appropriate situations must also be chosen for the temple and places of sacrifice to the other divinities.'—(*Vitruvius*, Book I, Chap. vii.)

- (13) Vijitya viśvaṁ vijayābhidhanāṁ viśvottarāṁ yo nagariṁ vyadhatta |

Yā hema-kuṭaṁ nija-sāla-bāhu-latā-chhaleneva parishvajantī ||

Yat-prākāra-śikhāvali-parilasat - kiñjalka - puñjāchitaṁ yach  
chhākā-pura-jāla-nachitaṁ sad-danti-bhṛiṅgānvitam |

Sphāyad yat-parikhā-jala-prati-phalad yat-prānta-prithvī-dhara-  
chchhāyā-nālam idaṁ purābjam naiśaṁ lakshmyā sahālam-  
bate ||

· Having conquered all the world, he (Bukka-Rāja) built a splendid city called the City of Victory (Vijayanagari). Its four walls were like arms stretching out to embrace Hema-kuṭa. The points of the battlements like its filaments, the suburbs like its blossom, the elephants like bees, the hills reflected in the water of the moat like stems,—the whole city resembled the lotus on which Lakshmi is ever seated.'—(*Ep. Carnat.*, Vol., v, Part 1, Channarayapatna Taluq, no. 256 ; Roman Text, p. 521, lines 1-6 ; Transl., p. 732, para. 2, line 4.)

- (14) Grāma - nagara - kheda - karvvada - madamba - droṇa - mukha - pat  
tanaṁ galiṁdam aneka-māṭa-kuṭa-prāsāda-devāyatanaṅga-  
lidam oppuva-agrahāra-paṭṭa-ṅaṅgalīṁdam atiśayav-apyā.

[At Tridāla, a merchant-town situated in the centre and the first in importance among the twelve (towns) in the glorious Kundi Three-Thousand, adorned with] 'villages, towns, hamlets, villages surrounded by hills, groups of villages, sea-girt towns, and chief cities, with elegant mansions, palaces and temples, and with shining agrahāra towns in the country of Kuntala.'—(Old Kanarese Inscrip. at Terdal, line 58, *Ind. Ant.*, Vol. xiv, pp 19, 25.)

- (15) ' With myriads of people, practices of virtue, agreeable occupations, streams of the (nine) sentiments, pleasure gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring festivals,

ghatikā-sthānas (religious centres), the supports of dharmma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus faces of beautiful women fair as the moon (grāma-nagara-kheda kharvvaṇa-madamba-droṇa-mukha-pura-pattana-rāja-dhāni) on whatever side one looked, in these nine forms did the Kuṅṭala-deśa shine.'

(It should be noticed that the passages within brackets is almost identical with the corresponding passage in quotation no. 14 above.—*Ep. Carnat.*, Vol. VII, Shikārpur Taluq, no. 197; Transl., p. 124, para. 1, last seven lines; Roman Text, p. 214, line 27 f.)

(16) 'Visiting' the grāmas, nagaras, khedas, kharvvaḍas, maḍambas, paṭṭanas, droṇa-mukhas and sarivāhanas,—the cities of the elephants at the cardinal points.'—(*Ep. Carnat.*, Vol. VII, Shikārpur Taluq, no. 118; Transl., p. 86, last para., line 14.)

(17) 'Thus entitled in many ways to honour, residents of Ayyavole Challunki and many other chief grāmas, nagaras, khedas, kharvvaḍas maḍambas, droṇa-mukhas, puras, and pattanas, of Lāla Gauḷa, Bangāla Kāsmira, and other countries at the points of the compass.'—(*Ibid*, no. 119, Transl., p. 90, para. 6.)

NANDANA (*cf.* NANDA-VṚITTA)—A storeyed building, a pavilion.

A type of building which has six storeys and sixteen cupolas (aṇḍa), and is 32 cubits wide :

(1) *Bṛihat-Saṃhitā* (LVI, 22, *J.R.A.S.*, N. S., Vol. VI, p. 319; see under PRĀSĀDA).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, v. 29, 33, 48, 53; see under PRĀSĀDA).

(3) *Bhaviṣhya-Purāṇa* (Chap. CXXX, v. 29; see under PRĀSĀDA).

A type of quadrangular building :

(4) *Garuḍa-Purāṇa* (Chap. XLVII, v. 242-5; see under PRĀSĀDA).

(5) A pavilion with thirty pillars (*Matsya-Purāṇa*, Chap. CCLXXXIII, v. 12; see under MAṆḌAPA, and compare *Suprabhedāgama*, under NANDA-VṚITTA).

NANDA-VṚITTA—An open pavilion, gracefully built with sixteen columns.

(*Suprabhedāgama*, xxxi, 101; see under MAṆḌAPA.)

NANDI-MANḌAPA (*see* under MAṆḌAPA)—A pavilion.

*See* Pallava Architecture.

(*Arch. Surv.*, New Imp. Scrirs, Vol. xxxiv plate LXIX, fig. 4.)



**NANDYĀVARTA**—A type of building where rooms are surrounded with terraces, a village, a window, a pavilion, a phallus, a ground-plan, an entablature (*see* under **PRASTARA**), a joinery (*see* under **SANDHI-KARMA**).

(1) *Mānasāra* :

A class of the six-storeyed buildings (*M.*, xxiv, 24; *see* under **PRĀSĀDA**).

A class of villages (*M.*, ix, 2; *see* under **GĀMA**).

A kind of joinery (*M.*, xvii, 54; *see* under **SANDHI-KARMA**).

A type of window (*M.*, xxxiii, 583; *see* under **VĀTĀYANA**).

A type of four-faced pavilion (*M.*, xxxiv, 555; *see* under **MAṆ-  
DĀPA**).

In connexion with the phallus (*M.*, lii, 177; *see* under **LIṅGA**).

In connexion with the site-plan (*M.*, viii, 35; *see* under **PADA-VINYĀSA**).

(2) Nandyāvartam alindaiḥ śālā-kudyāt pradakṣiṇāntargataiḥ |

Dvāraṃ paśchīmam asmin vihāya śeṣaṃ kāryāṇi ||

'Nandyāvarta is the name of a building with terraces that from the wall of the room extends to the extremity in a direction from east to south (alias from left to right). It must have doors on every side, except the west.'—(*Bṛihat-Saṃhitā*, liii, 32, *J.R.A.S.*, N. S., Vol., vi, p. 285.)

(3) Sarvatobhadram aṣṭāsyam vedāsyam vardha-mānakam ||

Dakṣiṇe chottare chaiva śaṇ-nectraṃ svastikaṃ matam |

Pārsvayoḥ purataś chaiva chatur-nectra-samāyutam ||

Nandyāvartam smṛitam purve dakṣiṇe paśchime tathā |

Uttare sāmuya-śāladi śālānām āsyam iringam ||

(*Kārikāgama*, xxxv, 88, 89, 90.)

An entablature (*ibid.*, liv, 7).

*Ibid.*, xli (named Nandyāvarta-vidhi : 1-37) :

The three sizes (1-6), and the four classes, namely, jāti, chhanda, vikalpa and ābhasa (7-9) :

Nandyāvartam chatuṣ-paṭṭam mulcātra vihānakam |

Dvāraṃ chatuṣṭayam vāpi yātheshṭha-diśi vā bhavet || (7)

Jalakaś cha kavāṭaś cha bāhye prakālpayet |

Sarvataḥ kuḍya-samyuktaṃ mukhya-dhāmātra kirtitam || (8)

Antar-vivṛita-pādaṃ cha bāhye kuḍyam prakīrtitam |

Chatur-dīkṣu vinishkrāntam ardha-kuṭam prayojayet ||

Daṇḍika-vāra-samyuktaṃ jāti-rupam idaṃ matam || (9)

The other details of this and the remaining three classes and the sub-classes are also given (10-36) :

Evam shodaśadhā proktaṃ nandyāvartam dvijōttamāḥ || (37)

(4) A class of buildings :

. . . Nandyāvartam iti śriṇu ।

Chatuṣ-kuṭās chatuṣ-śālās chatvāraḥ pārśva-nāsikāḥ ॥

Mukha-nāsi tathā yuktaṁ dvā-daśaṁ chānu-nāsikāḥ ॥

Chatuṣ-sopāna-saṁyuktaṁ bhūmau bhūmau viśeshataḥ ॥

Nandyāvartam idam vatsa. . . .

(*Suprabhedāgama*, XXXI, 48, 49, 50.)

A pavilion with 36 columns (*ibid.*, XXXI, 103; see under MAṆḌAPA).

NANDIKA—A type of quadrangular building.

(*Agni-Purāṇa*, Chap. CIV, vv. 14-15; see under PRĀSĀDA.)

NANDI-VARDHANA—A type of building.

(1) A kind of building which is shaped like the sun-eagle but is devoid of the wings and tail, has seven storeys and twenty cupolas, and is 24 cubits wide :

Garuḍākṛitīś cha garuḍa nandīti cha śaṭ-chatuṣka-vistīrṇaḥ ।

Kāryaś cha sapta-bhaumo vibhūshito'ṇḍaiś cha vimśatyā ॥

Commentary quotes the clearer description from *Kātyāya* :

Garuḍo garuḍākāraḥ pakṣha-puchchha-vibhūshitaḥ ।

Nandī tad-ākṛitir jñeyaḥ pakṣhādi-rahitaḥ punaḥ ॥

Karāṇāṁ śaṭ-chatuṣkāmś cha vistīrṇau sapta-bhūmikaḥ ।

Daśabhir dvi-guṇair aṇḍair bhūshitau kārayet tu tau ॥

(*Bṛihat-Saṁhitā*, LVII, 24; *J.R.A.S.*, N. S., Vol. VI, p. 319.)

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 33, 48, 53; see under PRĀSĀDA).

(3) *Bhavishya-Parāṇa* (Chap. CXXX, vv. 28, 31; see under PRĀSĀDA).

A kind of quadrangular building :

(4) *Agni-Purāṇa* (Chap. CIV, vv. 14-15; see under PRĀSĀDA).

(5) *Guruda-Purāṇa* (Chap. XLVII, vv. 24-35; see under PRĀSĀDA).

NAPUMSAKA (*cf.* STRIṂGA and PUṂLIṂGA)—A neuter type of building (*see* under PRĀSĀDA).

*Cf.* Pañcha-varga-yutaṁ miśram arpitānarpitāṅgakaṁ ।

Pāshaṇḍāṇāṁ idaṁ śastam napuṁsaka-samanvitaṁ ॥

(*Kārikāgama*, XLI, 11.)

For the meaning of pañcha-varga, *see ibid.*, XXXV, 21, under SHAP-VARGA.

NABHASVĀN—A class of chariots.

(*M.*, XIII, 112; *see* under RATHA.)

**NAYANONMILANA**—Chiselling the eye of an image ; sculpturally it would imply the finishing touch with regard to making an image.

For details, see *M.*, LXX (named *Nayanonilana*) 1-114.

**NARA-GARBHA**—The foundation of residential buildings.

(See details under **GARBHA-NYĀSA**.)

**NALINAKA**—A class of buildings distinguished by open quadrangles and surrounded by buildings, and furnished with platforms and stairs.

Chatuḥ-śālā-samāyukto vedi-sopāna-samūyutaḥ |  
Nalinakas tu samprokta(-taḥ) . . . ||

(*Suprabhedāgama*, XXXI, 46.)

**NAVA-TĀLA**—The nine-storeyed buildings (*M.*, XXVII, 2-47) ; the description of the ninth storey (*ibid.*, 35-47) ; seven classes (2-33) (see under **PRĀSĀDA**).

**NAVA-TĀLA**—A sculptural measurement in accordance with which the whole length of an image is nine times the height of the face which is generally twelve aṅgulas (nine inches) ; this length is divided into  $9 \times 12 = .108$  equal parts which are proportionally distributed over the different limbs. (See under **TĀLAMĀNA**.)

Cf. Nava-tāla-pramāṇas tu deva-dānava-kinnarāḥ |

(*Matsya-Purāṇa*, Chap. CCLVIII, v. 16.)

Evam nārishu sarvāsu devānaṁ pratimāsu cha |  
Nava-tālaṁ proktaṁ lakṣaṇaṁ pāpa-nāśanam ||

(*Ibid.*, v. 75.)

The details of this system of measure employed both for male and female statues are given. (*Ibid.*, vv. 26-74.)

**NAVA-BHŪMI** (same as **NAVA-TĀLA**)—Nine-storeyed buildings, the ninth storey (see **NAVA-TĀLA**).

**NAVA-RĀṄGA** (see **SAPTA-RĀṄGA**)—A detached pavilion (with 108 columns).

(1) Sāliṁdaṁ nava-raṅgaṁ syād aṣṭottara-śatāṅghrikam |

(*M.*, XXXIV, 107.)

(2) Koneri 'erected a nava-raṅga of 10 aṅkaṇas, with secure foundation and walls, for the god Tirumala of the central street of Maḷalavādi.'—(*Ep. Carnat.*, Vol. IV, Hunsur Taluq, no. I ; Transl., p. 83 ; Roman Text, p. 134.)

(3) Śāntigrāmada nava-raṅgada kalla-bāgilann kaṭṭisi huli-mukhavan—(Deva Mahārāya) 'caused the stone gateway of Śāntigrāma to be constructed and ornamented with the tiger-face. (This work was carried out by Siṅgaṅahc-bāruva of the village).—(*Ep. Carnat.*, Vol. v, Part I, Hassan Taluq, no. 17; Roman Text, p. 75; Transl., p. 34.)

(4) Śrī-gopāla-svāmiyavara nava-raṅga-paṭṭa-śāle-prākāraṇu kaṭṭisi—for the god Gopāla 'he erected a nava-raṅga-paṭṭa-śāle (a nava-raṅga and a paṭṭaśālā, see below) and an enclosure wall (and promoted a work of merit).'

Nava-raṅga-prākāra-paṭṭa-śāle-samasta-dharmma—'this nava-raṅga, enclosure wall, paṭṭa-śālā and all the work of merit were carried out. . . .—(*ibid.*, Channarayapatna Taluq no. 185; Roman Text, p. 467 lines 8, 17; Transl., p. 205.)

(5) Compare Saptaraṅga (at Comilla in Bengal) which is a pagoda-shaped detached building of seven storeys built on the right side of the raṅga-maṇḍapa, another detached building, facing the front side of the main shrine or temple of the god Jagannātha. All these buildings and the tank behind the shrine are within the enclosing wall (prākāra).

(6) 'It (Malleśvara temple at Hulikat) faces north and consists of a garbha-griha, an open sukha-nāsi, a nava-raṅga, and a porch. The garbha-griha, sukha-nāsi and porch are all of the same dimensions being about  $4\frac{1}{2}$  feet square, while the nava-raṅga measures 16 feet by 14 feet.—(*Mysore Arch. Report*, 1915-16, p. 4, para. 10; see also p. 5, para. 12, Plate III, fig. 2.)

'The nava-raṅga is an open hall with two rows of four pillars at the side, all the pillars except two being carved with large female figures in relief in the front.—(*Ibid.*, p. 15, para. 19.)

NAVA-RATNA—Nine gems, ruby (padma-rāga), diamond (vajra), coral (vidruma), sapphire (nīla), topaz (pushpa-rāga), emerald (marakata), pearl (muktā), lapis lazuli (sphaṭika), and gomedaka.

(*M.*, xviii, 390-394.)

NĀGA—Supernatural beings, 'snake-demons, sometimes represented in human form with a snake's hood in the neck, sometimes as mixed forms, half man, half snake. Their sworn enemies are Garuda.'

(W. Gieger: *Mahāvamsa*, p. 294; Grünwedel: *Buddhist Kunst*, p. 42, fol.)

**NĀGA-KALA**—A stone on which the image of a serpent is carved.

(See Chālukyān Architecture Arch. Surv., New Imp. Series, Vol. XXI, p. 39, Plates CXCX, fig. 2 ; XC, figs. 2, 3.)

**NĀGA-BANDHA**—A kind of window resembling the hood of a cobra.

(M., XXXIII, 582 ; see under VĀTĀYANA.)

**NĀGARA**—One of the three styles of architecture; it is quadrangular in shape, the other two (Vesara and Drāvida) being respectively round and octagonal.

(1) *Mānasāra* :

The characteristic feature of the three styles :

Mūlādi-stūpi-paryantaṁ vedāśraṁ chāyatāśrakam |  
 Dvyaśraṁ vṛittākṛitaṁ vātha grīvādi-sikharākṛitiḥ |  
 Stūpi-karṇa-saṁyuktaṁ dvayaṁ vā chaikam eva vā |  
 Chatur-aśrākṛitiṁ yas tu Nāgaraṁ tat prakīrtitam |  
 Mūlāgraṁ vṛittam ākāraṁ tad yat āyatam eva vā |  
 Grīvādi-stūpi-paryantaṁ yuktātho (-dhas) tad yugāśrakam |  
 Vṛittasyāgre dvyaśrakam tad Vesara-nāmakaṁ bhavet |  
 Mūlāgrāt stūpi-paryantaṁ aśtāśraṁ vā śaḍ-aśrakam |  
 Tad-agraṁ chāyataṁ vāpi grīvasyādho yugāśrakam |  
 Pūrvavach chordhva-deśaṁ syād Drāvidaṁ tat prakīrtitam |  
 Samāśraika-sikhā-yuktaṁ chāyāme tach-*chhikhā-trayam* |  
 Dryaśra-vṛittopari-stūpi vṛittam vā chatur-aśrakam |  
 Padmādi-kuḍmalāntaṁ syād uktavad vākṛiti(m) nyaset |

(M., xviii, 90-102.)

Compare Vishṇu-dharmottara (a supplement to the *Vishṇu-Purāṇa*), Part III, Chap. xli, where *paintings* are divided into four classes—Satya, Vainika, Nāgara and Mītra. (Cf. S. Kramrisch : *A Treatise on Indian Painting and Image-making*, 1928, pp. 8, 51 ; A. K. Coomaraswamy's article, *Rupam*, January, 1929.)

The Nāgara style is distinguished by its quadrangular shape, the Vesara by its round shape and the Drāvida by its octagonal or hexagonal shape :

See *Suprabhedāgama* below and compare :

(Referring to the pedestal of the pallas) :

Nāgaraṁ chatur-aśraṁ aśtāśraṁ Drāvidaṁ tathā |  
 Vṛittaṁ cha Vesaraṁ proktaṁ etat pīṭhākṛitis tathā |

(M., LIII, 53-54.)

These distinguishing features are noticed generally at the upper part of a building :

Grīva-mastaka-śikhā-pradeśake |

Nāgarādi-samalaṅkṛitoktavat |—(M., XXI, 71-72.)

Nāgara-Drāviḍa-Vesarādīn(-dīnām) śikhānvitam (haṁyam) |

(M., xxvi, 75.)

Referring to chariots (ratha):

Vedāśraṁ Nāgaraṁ proktaṁ vasvaśraṁ Drāviḍaṁ bhavet |

Suvṛittaṁ Vesaraṁ proktaṁ ra(A)ndhraṁ syāt tu shaḍ-  
āśrakam |—(M., XLIII, 123-124.)

An important addition is noticed in this passage; this style is designated as Randra, which is perhaps a corruption of Andhra.

In an ephigraphical record Kaliṅga also is mentioned as a distinct style of architecture (*see below*).

If the identification of Vesara with Telugu or Tri-kaliṅga is accepted (*see below*), and if the reading Andhra for Randra is also accepted, the Kaliṅga and the Andhra would be two branches of Vesara. And as the Drāviḍa style is stated to be of the hexagonal or octagonal shape (*see above*) it would appear that the Drāviḍa proper is octagonal and the Andhra, which is placed between the Drāviḍa and the Vesara, is hexagonal (*see further discussion below*).

The same three styles are distinguished in sculpture also:

(Liṅgaṁ) Nāgaraṁ Drāviḍaṁ chaiva Vesaraṁ cha tridhā  
matam |

(M., LIII, 76, also 100.)

Kuryāt tu nāgare liṅge pīṭham Nāgaraṁ eva cha |

Drāviḍe Drāviḍaṁ proktaṁ vesare Vesaraṁ tathā |

(*Ibid.*, 46-47, etc.)

(2) *Silparatna* of Śrikumara (xvi, 51-53) :

Mūlādi-śikharaṁ yugāśra-rachitaṁ geha smṛitaṁ nāgaraṁ |

Mūlādi-śikhara-kṛiyaṁ shaduragaśrodbhēditaṁ drāviḍam |

Mūlād vā galato'thavā parilasat-vṛittātmakaṁ vesaraṁ |

Teshvekaṁ prithagallākshma suridadadhyādātmanaḥ sam-  
matam || (51)

Janmādi-stūpiparyantaṁ yugāśraṁ nāgaraṁ bhavet |

Vasvaśraṁ śirshakaṁ karṇaṁ (kaṇṭhaṁ) drāviḍaṁ bhavanaḥ  
viduḥ || (52)

Vṛitta-karṇa (kaṇṭha)-śiropetāṁ vesaraṁ haṁyamāṣṭam |

Kūṭa-koshthādi-śikharaṁ haṁyamāṣṭam kathikā tvitāṁ || (53)

This treatise locates Nāgara region from the Himalayas to the Vindhya, Drāviḍa region from the Vindhya to the Kṛishṇa, and Vesara region from the Kṛishṇa to the Cape Comorin (*see* verses 40-50).

But it expressly says (v. 44) that buildings of all these styles may be found in all countries according to some authorities. This is quite natural and would further indicate the migration of styles from the land of their origin.

The unwarranted assumption of Messrs. F. H. Gravely and T. N. Ramachandran, in the Bulletin of the Madras Government Museum (New Series—General Section, Vol. III, Part 1, 1934), that all *Śilpa-śāstras* including the *Mānasāra* originated and restricted their jurisdiction in the South, is responsible for a series of further assumptions raised like a house of cards. Under the plea of 'Three Main Styles of temple Architecture' the authors of this article of 26 pages deliberately ignored both the references to other objects of these styles as also the examination of North Indian buildings of Nāgara style except a passing mention of a single structure at Bareilly District and excluded the places north of the Vindhya range which are known by the name of Nāgara. The alternative designations of Vesara style by Andhra and Kāliṅga have equally been ignored. Thus the learned authors had to delimit the Indian Continent by the Vindhya range of limited eastern boundary as the northern limit, and of this truncated India, Drāviḍa being the south and Nāgara and Vesara the two northern flanks. There was no necessity for any discussion to explain the mixture of Pallaava and Chalukyan types. The migration of styles also is very common and natural in architecture.

The contention that the styles, Nāgara, Vesara, Drāviḍa, all belong to the south has been disproved by Dr. S. K. Aiyangar (*Journal of the Indian Society of Oriental Art*, Vol. 11, no. 1, June 1934, pp. 23-27): 'the primary division is Nāgara, India north of the Vindhya, Vesara, India between the Vindhya and the Kṛishṇa, corresponding to Dakhan of secular history, and Drāviḍa or India south of the Kṛishṇa corresponding to Tamil India,' . . . 'But in regard to Vesara from Vesāya, Mr. Jayaswal (*J. I. S. O. A.*, Vol. 1, no. 1, p. 57) has little authority to rest on'. . . 'our derivation may fail or may prove satisfactory, but that is something entirely different from what the artist or the craftsman understood by the terms'. . . 'That they (Nāgara, Vesāra, Drāviḍa) had no territorial significance would be to argue too much, in the face of the explicit statement by the text writers.'

(3) *Kāṁikāgama* (LXV, 6-7, 12-18) :

Pratyekaṁ tri-vidhaṁ proktaṁ saṁchitaṁ chāpy-asamchitam |  
 Upasamchitam ity-evam Nāgaram Drāviḍam tathā || (6)  
 Vesaram cha tathā jātis chhando vaikalpam eva cha || (7)  
 Savistāra-vaśāc chhanna-hasta-purpāyātānvitam |

Yugmāyugma-vibhāgena Nāgarām syāt samīkṛitam ॥ (12)  
 Antara-prastaropetam ūha-pratyūha-saṁyutam ।  
 Nivra-sandhāra-saṁstambha-vrāte pariḍṛiḍhaiḥ śubhaiḥ ॥ (13)  
 Drāviḍam vakshyate' thātaḥ vistāra-dvayorghakam (?) ।  
 Raktachchhanna-pratikshepāt yugmāyugma-viśeshataḥ ॥ (14)  
 Hitva tatra samībhūtam bhadrālankāra-saṁyutam ।  
 Aneka-dvāra-saṁyuktam shaḍ-vargaṁ Drāviḍam smṛitam ।  
 Labdha-vyāsāyatam yat tu nātirikam na hīnakam ।  
 Bahu-varga-yutam vāpi daṇḍikā-vāra-śobhitam ॥ (16)  
 Mahā-vāram vimānordhve nirvūhānana-saṁyutam (?) ।  
 Sakshetropeta-madhyāmgḥri-yuktam tad Vesaram matam ॥ (17)  
 Yatinām gaṇikānām cha jīvinām krura-karmaṇaḥ ।  
 Praśastam Vesaram teshām anyeshām itare śubhe ॥ (18)

The details of the three styles are described more briefly but explicitly in the following *Āgama* :

(4) *Suprabhedāgama* (xxxī, 37-39):

Dvāra-bhedam idaṁ proktaṁ jāti-bhedam tataḥ śṛiṇu ॥ (37)  
 Nāgarām Drāviḍam chaiva Vesaram cha tridhā matam ।  
 Kaṇṭhād ārabhya vṛittam yad Vesaram iti smṛitam ॥ (38)  
 Grīvam ārabhya chāshṭānśam vimānam Drāviḍākhyakam ।  
 Sarvam vai chaturaśram yat prāsadam Nāgarām tu-idam ॥ (39)

According to this *Āgama*, the buildings of the Nāgara style are quadrangular from the base to the top; those of the Drāviḍa style are octagonal from the neck to the top; and those of the Vesara style are round from the neck to the top. Apparently, the lower part of the buildings of the two latter styles is quadrangular.

(5) Svair aṅgula-pramāṇair dvā-daśa-vistīrṇam āyatam cha mukham :  
 Nagnajitā tu chatur-daśa dairghyeṇa Drāviḍa(m) kathitam ॥

According to one's own aṅgula (finger) the face (of his own statue) is twelve aṅgulas long and broad. But according to (the architect) Nagnajit it should be fourteen aṅgulas in the Drāviḍa style.

The commentary quotes Nagnajit in full :

Vistīrṇam dvā-daśa-mukham dairghyeṇa cha chatur-daśa ।  
 Aṅgulāni tathā kāryam tan-mānam Drāviḍam smṛitam ॥

The face should be twelve aṅgulas broad and fourteen aṅgulas long : such a measure is known as Drāviḍa (i. e., this is the Draviḍa style of measurement).—(*Bṛihat-Saṁhita*, LVIII, 4, *J.R.A.S.*, N. S., Vol. VI, p. 323, note 3.)

(6) Like the face of the lady Earth shone the Vanavāse-nād on which Nāgara-khaṇḍa at all times was conspicuous like the tilaka, a sign of good



fortune (then follows a description of its groves, gardens, tanks, etc.). In the Nāgara-khaṇḍa shone the splendid Bāndhavanagara.'

'In Nāgara-khaṇḍa, like the mouths of Hara, were five agrahāras, from which proceeded the sounds of all Brāhmaṇas reading and teaching the reading of all the Vedas, Purāṇas, moral precepts, śāstras, logic, āgamas, poems, dramas, stories, smṛiti, and rules for sacrifices.'—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 225 ; Transl., p. 132, paras. 6, 7 ; Roman Text, p. 229, line 24 to p. 235, line 2.)

(7) In the world beautiful is the Kuntala-land, in which is the charming Vanavāsa country ; in it is the Nāgara-khaṇḍa, in which was the agreeable Bāndhavanapura. (The list of its trees and other attractions.) In that royal city (rājadhāni) was formerly a king of that country famed for his liberality Sovi-deva.'—(*Ibid.*, no. 235 ; Transl., p. 135, para. 2 ; Roman Text, p. 238, line 20, f.)

(8) Nāgari-khāṇḍa and Nāgari-khaṇḍa (*ibid.*, no. 236 ; Transl., p. 137, paras. 3, 4), Nāgara-khaṇḍa seventy (no. 240 ; Transl., p. 138), Nāgara-khaṇḍanāḍa (no. 241 ; Transl., p. 138), Nāgara-khaṇḍa (no. 243 ; Roman Text, p. 248, line 8), Nāgara-khaṇḍa seventy (no. 267 ; Transl., p. 143, last para., line 7), Nāgari-khaṇḍa seventy (no. 277 ; Transl., p. 145, largest para., line 5).

(9) Nāgara-bhuktau vālavī-vaishayika-śaiva . . . padraḷik (ḷ ksh) āntāsh-pati Vāruṇikā-grāma— 'Of the village of Vāruṇikā, which lies . . . in the Nāgara bhukti (and) belonging to the Vālavī-vishaya.'—(Deo Baranark Insc. of Jivitagupta II, lines 6-7 : *C. I. I.*, Vol. III, F. G. I. no. 46, p. 216, 218.)

(10) 'When that king (king Harihara's son Deva-Rāya) of men was ruling the kingdom in peace and wisdom, shining in beauty beyond all countries was the entire Karṇṇāṭa province ; and in that Karṇṇāṭa country famous was the Gutti-nāḍ, which contained eighteen Kampaṇas in which the most famous nāḍ was 'Nāgara-khaṇḍa' to which Kuppattūr was an ornament, owing to the settlement of the Bhavyas (or Jains), and its Chaityālayas, beautiful with lotus ponds, pleasure gardens and fields of gandha-śāli rice. (Further description of its attractions).'—(*Ep. Carnat.*, Vol. VIII, Part I, Scrab Taluq, no. 261 ; Roman Text, p. 82 ; Transl., p. 41.)

(11) In the island of Jambu trees (Jambu-dvīpa), in the Bharata-kshetra, near the holy mountain (Śrīdhara), protected by the wise Chandragupta, an abode of the good usages of eminent Kshatriyas, filled with a population worthy of gifts (dakṣiṇā-pātra), a place of unbroken wealth, was the district (vishaya) named Nāga-khaṇḍa of good fortune, possessed of all comforts, and from being ever free from destruction (laya) of the wise, called Nilaya (an asylum). There, adorned with gardens of various fruit trees

(named), shines the village named Kuppattūr, protected by Gopeśa. There like the forehead-ornament to the wife, in the territory of king Harihara, was a Jina Chaityālaya which had received a śāsana from the Kadambas.'—(*Ep. Carnat.*, Vol. VIII, Part I, Sorab Taluq, no. 263; Roman Text, p. 86; Transl., p. 43.)

The identity of Nāgara-khaṇḍa with Nāga-khaṇḍa is undoubted owing to the fact that the one and same village Kuppattūr is contained in both.

(12) 'The headman of Piṭhamane village, the first in the Kuppattūr Twenty-six of the Nāgara-khaṇḍa Malu-nāḍ, belonging to the Chandragutti-venthe, of the Banavāsi Twelve Thousand in the South country . . . (*Ibid.*, no. 265; Roman Text, p. 87, Transl., p. 43).

(13) In Jambudvīpa, in the Karṇṇāṭaka-vishaya, adorned with all manner of trees (named) is Nāgara-khaṇḍa.'—(*Ibid.*, no. 329; Transl., p. 58, para. 2, line 4.)

(14) The expression 'Nāgara-khaṇḍa Seventy' occurs in several of the Sorab Taluq Inscriptions, e.g., nos. 326, 327, 328, 336, 337, etc.

To the ocean-girdled earth like a beautiful breast formed for enjoyment was Nāgara-khaṇḍa in the Banavāsi-maṇḍala.'—(*Ibid.*, no. 345; Transl. p. 60.)

(15) 'In the ocean-girdled Jambu-diva (dvīpa) is the Mandara mountain to the south of which is the Bharata-kshetra, in which is . . . wherein is the beautiful Nāgara-khaṇḍa. Among the chief villages of that nāḍ is the agrahāra named Kuppattūra.'

Grants were also made (as specified) by the oil-mongers, the betel-sellers and the gaṇḍas(?) of Nāgara-khaṇḍa for the perpetual lamp.'—(*Ibid.*, no. 276; Transl., p. 47.)

(16) 'In the pleasant Nāgara-khaṇḍa is the agrahāra which is jewel mirror to the earth, the beautiful Kuppattūr, with its splendid temples, its golden towers, its lofty mansions, its streets of shops, its interior surrounded with a moat, its . . . , and the houses of dancing girls,—how beautiful to the eyes was Kuppattūr. It surpassed Alakāpura, Amarāvati and Bhogavati. Within that village, vying with Kailāśa, stood the temple of Koṭinatha, built by Viśvakarmā and carved with complete devotion, planned in perfect accordance with the many rules of architecture, and freely decorated with *drāviḍa*, *bhumija* and *nāgara*.' 'These and bhadropeta appear to be technical terms of the *Śilpa-śāstra* or science of architecture.'—Mr. Rice.

(They are evidently the three styles of architecture called the Drāviḍa, Vesara and Nāgara in the *Mānasāra* and elsewhere—*Ep. Carnat.*, Vol. VIII, Part I; Sorab Taluq, no. 275; Roman Text, p. 92, line 9 from bottom upwards; transl., p. 46, note 1.)

(17) The earliest Vijayanagar inscription (Sb. 263, noted above) contains the interesting statement that the district (vishaya) named Nāga-khaṇḍa

generally Nāgara-khaṇḍa, corresponding more or less with the Shikārpur Taluq was (formerly) protected by the wise Chandragupta, an abode of the usages of eminent Kshatriyas.'—(*Ep. Carnat.*, Vol., viii, Part I ; Introduction, p. 11, para. 5.)

(18) The Sorab Taluq Inscriptions (no. 261 f.) have reference to Nāgara-khaṇḍa and its pompous buildings (temples), picturesque gardens and other natural and artificial beauties. From these it may be inferred that the buildings of Nāgara-khaṇḍa possessed, as stated in the *Mānasāra*, a distinct style of architecture like those of the Drāviḍa and Vcsara countries.

(19) Compare Fah Hian's Kingdom of the Dakshīṇa (*Ind. Ant.*, Vol., vii, pp. 1-7, note 2) :

'Going two hundred yojanas south from this, there is a country called Ta-thsin (Dakshīṇa). Here is a Saṅghārāma of the former Buddha, Kāśyapa. It is constructed out of a great mountain of rock hewn to the proper shape. This building has altogether five storeys. The lowest is shaped into the form of an elephant, and has five hundred stone cells in it. The second is in the form of a lion and has four hundred chambers. The third is shaped like a horse, and has three hundred chambers. The fifth storey is in the shape of a dove, and has one hundred chambers in it. At the very top of all is a spring of water, which flowing in a stream before the rooms, encircles each tier and so, running in a circuitous course, at last arrives at the very lowest storey of all, where, flowing past the chambers as before, it finally issues through the door of the building. Throughout the consecutive tiers, in various parts of the building, windows have been pierced through the solid rock for the admission of light, so that every chamber is quite illuminated, and there is no darkness (throughout the whole). At the four corners of this edifice they have hewn out the rock into steps, as a means for ascending. Men of the present time point out a small ladder which reaches up to the highest point (of the rock) by which men of old ascended it, one foot at a time (:). They derive the name which they give to this building, viz. Po-loya, from an Indian word (pārāvata) signifying "pigeon." There are always Arhitas abiding here. This land is hilly and barren, without inhabitants. At a considerable distance from the hill there are villages, but all of them are inhabited by heretics. They know nothing of the law of Buddha or Śramanas, of Brāhmanṣ, or of any of the different schools of learning. The men of that country continually see persons come flying to the temple. On a certain occasion there were some Buddhist pilgrims from different countries who came here with a desire to pay religious worship at this temple. Then the men of the villages above alluded to ask them saying

Why do you not fly to it? We behold the religious men who occupy those chamber constantly on the wing." "Because our wings are not yet perfectly formed." The country of Ta-thsin is precipitous, and the road dangerous and difficult to find. Those who wish to go there ought to give a present to the king of the country, either money or goods. The king then deposes certain men to accompany them as guides, and so they pass the travellers from one place to another, each party pointing out their own roads and intricate bye-paths. Fah Hian finding himself in the end unable to proceed to that country, reports in the above passages merely what he heard.'—(Beal's *Travels of Fah Hian and Sung-Yan*, pp. 139, 141.)

(20) 'The territory (Drāviḍa) which also includes the northern half of Ceylon, extends northwards up to an irregular line drawn from a point on the Arabian sea about 1,000 miles below Goa along the Western Ghats as far as Kolhapur, thence north-east through Hyderabad, and farther eastwards to the Bay of Bengal.'—(*Encyclopaedia*, Brit. ed. 11, p. 550.)

(21) Vesara is otherwise called Andhra or Telugu. The old Telugu country covers about 8,000 square miles, and is bounded on the east by the Bay of Bengal, on the north by the river Godāvārī, on the south by the Kṛishṇā.' (Dr. Barnett, *Catalogue of the Telugu Books*, Preface.)

The boundaries of the Telugu or Vesara country are given in detail in the *Linguistic Survey of India*: 'The Telugu country is bounded towards the east of the Bay of Bengal from about Barwa in the Ganjam District in the north to Madras in the south. From Barwa the frontier line goes westwards through Ganjam to the Eastern Ghats, and then southwards, crosses the Sobari on the border of the Sunkum and the Bijai Talukas in the Baster state, and thence runs along the range of the Bela Dila to the Indravati. It follows that river to its confluence with the Godāvārī, and then runs through Chanda, cutting off the southern part of the district, and further eastwards, including the southern border of the district Wun. It then turns southwards to the Godāvārī at its confluence with the Mañjira, and thence further south, towards Bidar where Telugu meets with Kanarese.'—(*Linguistic Survey of India*, Vol. iv, p. 577.)

See also the following :

*Trikāṇḍaśeṣha* (Bibl. 258, Cal., 2, 8, 44).

*Hemachandra-abhidhāna-chintāmaṇi* (12, 53).

*Halāyudha* (2, 295).

*Naishadha-kārikā* (Bibl., Cal., 10, 8).

*Bṛihadāraṇyaka-upaniṣad* (8, 15).

*Sūpālābadha* (Bibl. 141, Cal. 12, 19).

(22) Nāgara seems to be a very popular geographical name (*see J. A. S. B.*, 1896, Vol. LXV, Part 1, pp. 116-117) :

It is clear from the references that Nāgara was formerly the capital of Birbhūm in Bengal ; that Nāgara is the name of a famous port in Tanjore ; that it is the name of an extensive division in Mysore ; that a town named Nāgara and an ancient place called Nāgarakota are situated on the Bias in the district of Kangra, in the Punjab ; that we find Nāgaravasti in Darbhanga, the town Nāgaraparken in Sindh and Nāgarakhas in the district of Basti ; that there is a number of ancient villages in the Deccan called Nāgaram ; and that Nāgara is the name of two rivers in North Bengal, the name of a village in the district of Dacca ; and that of some nine or ten places, called Nāgara in Rajputana proper, three being towns, that a fortified village in the Santal Parganah is called Nāgara. The ancient Madhyamikā, which was once besieged by Menander, is now called Nāgari near Chitor (*Smith's History*, p. 187). Hicun Tsiang also mentions Nāgara (modern Jellalabad) which was a province of ancient Kapiśa (Kādphisa), the people whereof were the followers of Buddha (*see his Travels*, Index).

The Nāgaras are mentioned in the list of countries and peoples given in the *Yogavāsishtha-Rāmāyaṇa* (*Utpatti-prakarāṇa*, xxxv, 33) as a people. The same list refers to the Drāviḍas (*ibid.*, 40) also as a people living south of the mount Chitra-kūta, below the river Godāvārī. In this list the Andhras, Kaliṅgas, and Chaulikas are clearly distinguished from the Drāviḍas (*ibid.*, 26-27).

Nāgara is the name of a script also mostly prevailing in Northern India. There lives a powerful tribe called Nāgara, in the mountainous tract of Kabul in Afghanistan. Nāgara is the designation of a sect of Brāhmins also who, it is held, came over from some part of Northern India and settled down in Gujrat at a place known as Nagarānandapura. From these Nāgara Brāhmins, it is said, came the use of the Nāgari alphabet. A portion (part VI) of the *Skanda-Purāṇa* bears the name Nāgara-khaṇḍa. From this instance, it would appear that the expression Nagara is at least as old as the Nāgara-khaṇḍa incorporated into the *Skanda-Purāṇa* which was according to a general consensus composed in honour of or, at least, named after Skandagupta (A.D. 455-480), the seventh Emperor of the early Gupta dynasty.

Why the Nāgara-khaṇḍa, the 6th part of the *Skanda-Purāṇa*, is so called is not explained explicitly in the *Purāṇa* itself. But from the contents of Chapters CXIV, CLXIII, CXCIX, CC, CCI and CCII of this (6th) part, it seems to have been named after the Nāgara Brāhmins.

The etymological origin of the term *nagara* is, however, explained in Chapter cxiv of the *Nāgara-khaṇḍa*. It is stated (vv. 76, 77, 78, 93) to have arisen from an incantation of snake-poisoning (cf. verses 1-113, *nagara*, no poison). Compare the following :

Garam visham iti proktaṁ na tatrāsti cha sāmpratam ||  
 Na garam na garam chaitach chhrtvā ye pannagādhamāḥ |  
 Tatra sthāsyanti te vadhyā bhāvishyanti yathā-sukham ||  
 Adya prabhṛiti tat sthānaṁ (Chamatkāra-puraṁ) nagarākhyam  
 dharā-tale |

Bhaviṣyati su-vikhyātaṁ tava kirtti-vivaraddhanam ||  
 Evaṁ tan nagaram jātam asmāt kālād anantaram ||

(*Skanda-Purāṇa*, Part vi, *Nāgara-khaṇḍa*,  
 Chap. cxiv, vv., 76, 77, 78, 93.)

From all the literary and epigraphical instances given above, it appears certain that the expressions *Nāgara*, *Vesara*, and *Drāviḍa* are primarily geographical. But the precise boundaries of *Nāgara*, like those of *Drāviḍa* and *Vesara*, are not traceable. The epigraphical quotations, however, would tend to localize *Nāgara* somewhere within the territory of modern Mysore. But the *Nāgara* script, the *Nāgara-khaṇḍa* of the *Skanda-Purāṇa*, and the *Nāgara-Brahmins*, representing some way or other the Northern India from the Himalaya to the Vindhya and from Gujrat to Magadha, would jointly give a wider boundary to *Nāgara*. Besides the author of the *Mānasāra* shows his acquaintance with buildings of the whole of India in the passage where he divides the best types of buildings by the following designations, namely, *Pāḍchāla*, *Drāviḍa*, *Madhya-kānta* (meaning apparently *Madhyadeśa*), *Kaliṅga*, *Varāṭa* (*Virāṭa*), *Kerala*, *Vamśaka*, *Magadha*, *Janaka*, and *Sphūrjaka*—(*M.*, xxx, 5-7.)

If the country of *Nāgara*, like those of *Drāviḍa* and *Vesara* be included in Southern India, in other words, if Northern India be excluded from the scope of the styles of buildings mentioned in records quoted above, the passage, mentioning the ten different types of buildings of the ten countries covering the whole of India, will have to be treated as what is called a spurious record, a term under which the conflicting ideas are reconciled by many a scholar. Let whatever be the boundaries of *Nāgara*, it is clear beyond doubt that the three styles of architecture have arisen from three geographical names, *Nāgara*, *Vesara*, and *Drāviḍa*. And there we have a parallel instance of similar divisions in the early Grecian architecture :

The three ancient orders—the Doric, Ionic, Corinthian—on which were based the three styles of Grecian architecture have been traced by Vitruvius, an authority on architecture of the first century.

‘ In this country (Smyrna) allotting different spots for different purposes, they began to erect temples, the first of which was dedicated to Apollo Panionios, and resembled that which they had seen in Achaia, and they gave it the name of Doric, because they had first seen that species in the cities of Deoria.’—(Book IV, Chap. 1.)

Gwilt comments on it thus : ‘ The origin of the Doric order is a question not easily disposed of. Many provinces of Greece bore the name of Doria; but the name is often the least satisfactory mode of accounting for the birth of the thing which bears it.’—(*Encycl.*, Art. 142.)

‘ The Ionic order, at first chiefly confined to the states of Asia Minor, appears to have been coeval with the Doric order.’—(Gwilt., *Encycl.* Art. 153). ‘ That species, of which the Ionians (inhabitants, of Ion) were the inventors, has received the appellation of Ionic.’—(*Vitruvius*, Book IV, Chap. 1.)

The third species, Corinthian, is so called because Callimachus, who for his great ingenuity and taste was called by the Athenians Catatechnos, happening at this time to pass by the tomb, observed the basket and the delicacy of the foliage which surrounded it. Pleased with the form and novelty of combination, he constructed, from the hint thus afforded, columns of this species in the country about Corinth.’—(*Ibid.*, Chap. 1.)

‘ When Solomon ascended the throne, anxious to fulfil the wish of his father had long entertained of erecting a fixed temple for the reception of the ark, he was not only obliged to send to Tyre for workmen, but for an architect also. Upon this temple a dissertation has been written by a Spaniard of the name of Villalpanda, wherein he, with consummate simplicity, urges that the *orders, instead of being invention of the Greeks, were the invention of God Himself*, and that Callimachus most shamefully put for the pretensions to the formation of the Corinthian capital which, he says, had been used centuries before in the temple at Jerusalem.’—(*Ibid.*, Art. 52.)

‘ The other two orders, Tuscan and Composite, which are of a later date than the time of Vitruvius, are of Italian or Roman origin. The Composite, as its title denotes, is the combination of other orders and has thus no independent importance. The Tuscan order has also reference to the country of Tuscany, formerly called Eutruria, a country of Italy.’—(Gwilt, *Encycl.*, Art. 178.)

The origin of the Indian architecture is attributed to a mythological person Viśvakarman, literally the Creator of the Universe. But the styles of architecture are stated to have been invented by one Bammoja.

'An interesting record from Hojal is the label cut on the capital of a finely carved pillar in the Amṛiteśvara temple. It is called in the inscription a Sūkāra-pillar. Speaking of the sculptor who made it, the record says that he, Bammoja, the pupil of Padoja of Soge, was a Viśvakarma, i.e. the architect of the gods in this Kali age, the master of the sixty-four arts and sciences, the clever builder of the sixty-four varieties of mansions and the architect who had invented (discovered) the four 'types of buildings, viz. Nāgara, Kālīṅga, Drāvida and Vesara. An earlier sculptor of about A. D. ninth century of whom we hear from an inscription on a pedestal at Kogali, was a grandson of Śivananni. It is stated that he made the image of the sun (divasa-kara) of which the stone in question was evidently the pedestal.'—(Government of Madras G. O. no. 1260, 15th August, 1915, p. 90, *see also* Progress Report of the Assistant Archaeological Superintendent for Epigraphy, Southern Circle, 1914-15, p. 90.)

It has been pointed out already that Kālīṅga is mentioned in the *Mānasāra* (xxx 5-7) as the name of a *type* of building, but therein it is never stated as a *style* like the Nāgara, Vesara and Drāvida, the Kālīṅga type of buildings being apparently included in one of these three styles. In the same treatise there is another passage, pointed out above, where Randhra or Andhra is mentioned as a type of chariots. It has also been stated above that these Kālīṅga and Andhra might be two branches of the Vesara, being geographically placed on the two sides of it, the three together forming Tri-Kālīṅga or three Kālīṅgas. In one of the epigraphical quotations (no. 15) Bhūmija is mentioned alongside Drāvida and Nāgara, and this Bhūmija (*lit.* originated in the land or the style of the land, where the document was written) is apparently same as Vesara.

Some of the numerous literary and epigraphical quotations given above must be placed in dates later than the time of Bammoja, mentioned in the present document. But neither his name nor his style (Kālīṅga) is associated with the three styles, Nāgara, Vesara, Drāvida, in any of the instances quoted above. It is not unlikely that Bammoja 'discovered' the three styles, which had been perhaps existing long before him, and adding his own invention (Kālīṅga) claimed the originality for all the four. Such instances of unscrupulously adding to the works of one's predecessors and claiming the originality are not rare in the literary or the archaeological records.

It does not seem probable that any one person could have invented all the styles of architecture at one time and issued them as a royal command; they are more likely to have arisen out of the local



circumstances at different periods, before they were recorded, presumably first in the architectural treatises and then in the epigraphical records.

The object of this article is not, however, to identify the country of Nāgara, nor to find out the inventor or inventors of the styles, although on them depend many interesting points of the ancient Indian architecture. Here it is clear that the expressions Nāgara, Vesara and Drāviḍa are geographical, and that they imply three styles of architecture in its broadest sense.

But on the last point, too, modern authorities hold different views. In discussing the styles of Indian architecture, Mr. Havell is of opinion (*Study of the Indian Civilization*, Preface) that they are Śiva and Viṣṇu, and not Northern and Southern, or the Indo-Aryan and the Dravidian, as Fergusson and Burgess suppose to be (*cf. History of Ind. and East. Arch.*, 1910). The *Śilpā-śāstra* and the *Āgamas* seem to disagree to Havell's theory nor do they wholly support the views of Fergusson and Burgess. The division proposed by Havell, being not geographical, may be systematically applied to religious architecture, while that adopted by Fergusson and Burgess being of a geographical nature, is more in agreement with the system of the *Śilpa-śāstras* than Havell's division.

The fact that the Hindu art-consciousness is largely dominated by a spiritual motive being strictly adhered to, it would follow that Havell's division into Śiva and Viṣṇu, or others, into Hindu, Buddhist and Jain, would be more logical than that into Northern, Eastern and Southern, or Nāgara, Vesara and Drāviḍa. But even admitting this, we must not forget that the Hindus knew the point where exactly to draw the line between religion, on the one hand, and social and political life, on the other. It is needless to observe that within the three geographical styles the sectarian subdivisions are quite feasible.

**NĀṬAKA**—A moulding, a theatre, a calyx, a crowning, moulding or ornament of a pillar; it is generally used together with petals; the part of the capital which supports the abacus (*phalakā*) is sometimes so called; a cardinal number.

Pādānām api sarveshām patra-jātyair alaṅkṛitam ।

Antare nāṭakair yuktaṁ padmānām tu dalair yutam ।

(*M.*, xiv, 149-150.)

In connexion with the entablature : Nāṭakānta-mṛiṅgālikā ।

(*M.*, xvi, 53.)

Narair vā nāṭakāṅge tu kuryād devālayādīnām ।  
 Harmyāntarālayāḥ sarve nṛiṇām nāṭaka-saṁhyutam ।  
 Etat tu prastarasyardhve nāṭakasyordhvāmsavat ।

(*M.*, xvi, 112, 114, 117.)

Athavā tapasvinīnām cha kaṭhe vā nāṭakāhakaṁ (maṇḍapaṁ) ।

(*M.*, xxxiv, 426.)

In connexion with pavilions (maṇḍapa) :

Nāṭka-vistaraṁ pañcha-pañcha-bhāgena yojayet ।

(*Ibid.*, 503.)

In connexion with the arch (torāṇa) :

Makara-kimbari-vaktraṁ nāṭakādi-bhujāṅgavat ।

Kesari-maṇḍanaṁ bhavati chitra-torāṇa-nāṭakaiḥ ।

(*M.*, xlvi, 66-67.)

The cardinal number ten :

Shat-saptāśṭaka-daṇḍam vā nanda-nāṭuka-rudrakam ।

(*M.*, ix, 430.)

Its synonym are anta, mṛinālikā vallika, patra, vallī, chitrāṅga and kulikāṅghrika.—(*M.* xvi, 53-55.)

NĀṬIKĀ—A moulding.

In connexion with the arch (torāṇa) :

Nāṭikā phalakā musṭi-bandhanaṁ patra-vallikam ।

(*M.*, xlvi, 65.)

In connexion with the pillar :

Kumbhāyāmaṁ tathotkaṅṭam ūrdhve karṇa-samaṁ bhavet ।

Tat-samaṁ nāṭikākhyam syād unnataṁ tad viśeṣṭaḥ ।

(*M.*, xv, 54-55.)

NĀṬYA-GRIHA(-MAṆḌAPA, -VEŚMA, -ŚĀLĀ)—The play-house, theatre, music hall, dancing pavilion, used for enacting a drama (abhinaya), holding a music performance (saṅgīta) or dancing show (nṛitta). It is built in connexion with a temple, a palace, and independently for the use of general public in towns, countryside and mountain valley. It is built in various shapes—circular (vṛitta) semi-circular (vikṛiṣṭa), quadrangular (chaturaśra), and triangular (tryaśra). Abhinava-gupta, the commentator of *Bharata-Nāṭya-sāstra* refers to some eighteen varieties with reference to shape and size.

It consists of two main parts : the auditorium (prekshā-griha) and the stage (raṅga-maṇḍapa). The former faces the latter and is one storey (bhūmi) lower in situation. The auditorium supplies the seating arrangement which varies in accordance with the shape of the theatre and in consideration of its being attached to a temple, or palace, or built independently for the use of the general public. In an open variety of the theatre built in the

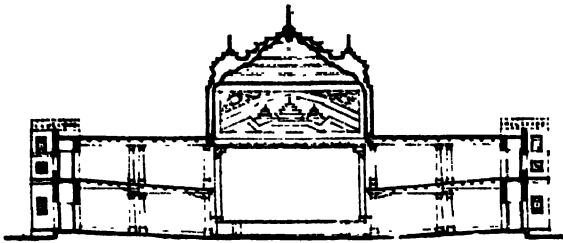
courtyard of a temple ' all kinds of seats are assigned for ordinary, special, and occasional uses to Chakravartin and other classes of kings, as well for the gods, to be seated together with their consorts, as also for the accommodation of ordinary people.' (*Mānasāra*, XLVII, 26-29). In a closed variety of the palace theatre the seating arrangement is more specifically shown. The first row corresponding to stall and facing the stage is occupied in the centre by the court ladies (*varāṅganā*) having the learned courtiers on their right and the bards on their left. Immediately behind the court ladies is the royal seat, on the left of which seats are reserved for the harem (*antaḥpura*) and on the right is the seat for the chief queen and others. The stage proper consists of *raṅga-śirsha* (stage-front), *raṅga-pīṭha* (the place immediately behind for acting), and *nepathya-griha* (green-room). It is shaped like a mountain cave and have two floors. The upper floor or the platform (*vedikā*) is made of wood, and the surrounding walls, of bricks.

Like many other things the Indian tradition has ascribed a divine, that is, an indigenous origin to Sanskrit drama rather than a Grecian influence. The *Nāṭyaveda* is stated to have been created by Brahmā for the benefit of all castes including the *Sūdras* who had no access to the *Vedas*. It is significant that dramas were intended at origin to provide facilities for the enjoyment of all classes of people, thus indicating popularity and interest to the subject of the general public, men, women and children, who could hardly be expected even if they were all literate, to read the texts in Sanskrit in order to enjoy the dramas. Thus the drama is stated to have been compiled of the element of recitation from the *Rig-Veda*, the element of chanting or songs from the *Sāma-Veda*, the element of mimic art from the *Yajur-Veda*, and the element of sentiment from the *Athar-Veda*. Śiva and Pārvatī are stated to have contributed the *Tāṇḍava* and *Lāsyā* dances, and Viṣṇu the four dramatic styles essential to the effect of any play.<sup>1</sup> Viśvakarman, the divine architect, is stated to have built the first playhouse in which the sage Bharata carried into practice the dramatic art thus created.<sup>1</sup>

This traditional account has been gathered from the *Bharata-Nāṭya-śāstra* which treatise the Western scholars have placed in the third century of the Christian era. There is also a class of works called *Naṭasūtra*, referred to in Paṇini's grammar (4. 3, 110), dealing with directions to actors (*naṭa*). But the dialogues and other elements have been discovered in the early *Vedas*.<sup>2</sup> These dialogues are romantic in nature and dramatic in essence. Thus the conversations between Yama and Yamī, or Purūravas and Ūrvaśī would charm a modern audience in a most up-to-date theatre. Professor Keith has further recognized that the Vedic ritual contained within

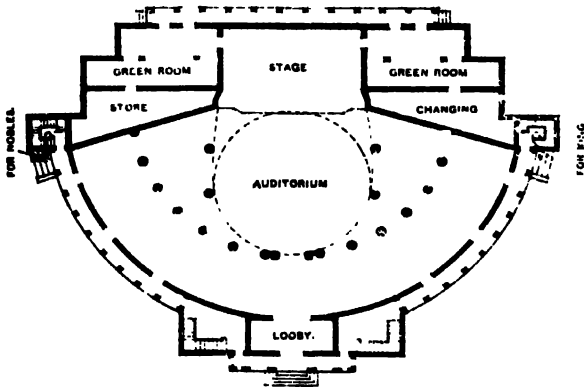
<sup>1</sup> Keith : *Sanskrit Drama*, p. 12.

<sup>2</sup> For instance *Rig-Veda*, v. 10, 51-53, 86, 95, 108 ; VIII, 100 ; I, 179, 28 ; IV, 18.

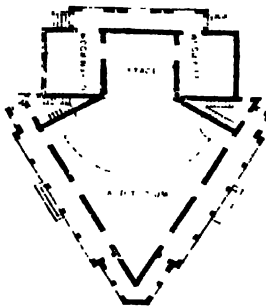


A SUGGESTION FOR THE INTERIOR

SCALE OF 10 5 40 15 20 25 30 35 43 45 50 FEET.

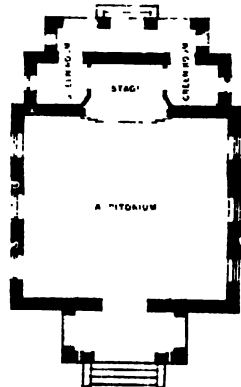


PLAN—SEMI CIRCULAR TYPE.  
NATYA GRHA.



PLAN TRIANGULAR TYPE  
SCALE 8 FT NONE INCH

NA YA GRHA.



PLAN—QUADRANGULAR TYPE  
SCALE 8 FT NONE INCH



itself the germs of drama' and in the ceremonies 'there was undoubtedly present the element of dramatic representation.'<sup>1</sup>

In the *Rāmāyaṇa* mention is made of the dramatic artists (naṭa), professional dancer (nartaka), and plays in mixed languages (Vyāmiśraka). In the *Harivaṃśa* which is a continuation of the *Mahābhārata* mention is made of players who made a drama out of the *Rāmāyaṇa* legend. The evidence of dramas being actually played in a theatre is found in the *Mahābhāshya* 'which mentions representations of *Kaṃsa-vadha* (slaying of Kaṃsa) and the *Bālībandha* (binding of Bālī).<sup>2</sup>

The Prekshāgāra or auditorium is mentioned in the *Mālavikāgnimitra* (Act I). Saṅgīta-śālā or music hall is referred to in the *Śakuntala* (Act V).

The *Bhāvaprakāśana* (x, 5-18) refers to three types of theatres and thirty different kinds of dramas which were actually played by a dramatic company under the direction of Divākara :

Chaturaśra-tryaśra-vṛitta-bhedāt so'pi tridhā bhavet ।

The *Saṅgīta-chūḍāmaṇī*, a text in manuscript, describes the drop scene and other curtain : 'the first curtain is the front drop which is removed as soon as the show begins. Behind the mist-like curtain, the *dansouse* performs the dance called *lāsya* (nude)' (*Triveni*, p. 722). Sceneries are described in great detail in the *Bharata-Nāṭya-śāstra* :

Kakshā-vibhāge jñeyāni gṛihāṇi nagarāṇi cha ।

Udyānārāma sarid-āśramā aṭavi tathā ॥

Prīthivi sāgarās chaiva trailokyam sacharācharam ।

Varshāṇi sapta-dvipās cha parvatā vividhās tathā ॥

Alokaś chaiva lokaś cha rasātalamathāpi cha ।

Daityānām ālayaś chaiva gṛihām bhuvanām cha ॥

Nagare cha vanc chāpi varshe vai parvate tathā ।

Yatra vārthā pravarteta tatra kakshām prayojayet ॥

Bāhyam vā madhyamam vāpi tathaivābhyantaram punaḥ ।

Dūram vā sannikishṭam vā deśam tu parikalpayet ।

(*Nāṭya-śāstra*, ed. Joan Grosset, Paris, 1898.)

The same text describes with minute particulars and dimensions the auditorium of three types :

Idam prekshāgṛiham dṛishṭvā dhīmatā Viśvakarmaṇā ।

Tri-vidhaḥ sanniveśāścha śāstrataḥ parikalpitaḥ ।

Viprakriṣṭaś-chaturaśras cha tryaśras chaiva tu maṇḍapaḥ ।

Prekshāgṛihāṇām sarveshām tri-prakāro vidhiḥ smṛitaḥ ॥

(*Nāṭya-śāstra*, Gaekwad's Series, xxxvi, Chap. II, 7, 8, 25.)

<sup>1</sup> Keith : *Sanskrit Drama*, p. 23.

<sup>2</sup> Mahābhāshya on Paṇini 3, 1, 26 ; see Macdonell, *History of Sanskrit Literature*, p. 347.

The pillars, doors, walls, green-rooms, etc. are fully described :  
 Stambhaṃ dvāraṃ cha bhittiṃ cha nepathyagrīham eva cha |  
 Evam utthāpayet tajjño vidhi-dṛiṣṭena karmaṇā ||

(*Nāṭya-śāstra*, Gaekwad's Series,  
 xxxvi, Chap. II, 65-66.)

The stage proper with its different members are also described :  
 Raṅga-piṭhaṃ tataḥ kāryaṃ vidhi-dṛiṣṭena karmaṇā |

(*Ibid.*, II, 71.)

Raṅga-śirshaṃ tu kartavyaṃ shad-dāru-samanvitam |

Kāryaṃ dvāra-dvāryaṃ chātra nepathyasya grīhasya cha |

(*Ibid.*, II, 71, 72 ; see also 78.)

Evam kāshṭha-vidhiṃ kritvā bhitti-karṇena prayojāyeta |

Nirvyūha-kuharopctarṃ nānā-gratītha-vedikam |

Kāryaḥ śaila-guhākāro dvi-bhūmir nāṭya-maṇḍapaḥ |

(*Ibid.*, II, 70, 84.)

Compare DARIGRIHA (*Kumāra-sambhava*, I, 10, 14) and ŚILĀ-VEŚMAN  
 (*Megha-dūta*, I, 25).

The *Śilpa-ratna* of Śrikumāra also describes two or three types of play-  
 houses (Chap. xxxix, 60-68).

The playhouses belonging to temples, palaces and ordinary dwelling  
 houses are described in the *Mānasāra* (xlvii, 2-12, 16, 20, 24-29, see  
 quotations under MADHYARAṅGA).

The epigraphical evidences are also not wanting. Thus from its a range-  
 ments and inscriptions the cave in Ramgarh hill in Sarguja appears to  
 have been evidently intended for dramatic performances.<sup>1</sup> The queen's  
 cave and that of Gaṇeśa in Udayagiri 'are further examples: they represent  
 the doings of these ladies and gentlemen (actresses and actors) in a highly  
 realistic way.'<sup>2</sup> 'By Nāga, the Vīra-Ballāla-paṭṭam-svāmi, were built the  
 dancing hall and terrace of Pārśva-deva, and in front of the Basadi of  
 Kamaṭha Pārśva Deva stone pillars and a dancing hall were made.'<sup>3</sup>

All these documents, comprising general literature, technical works on  
 music, architectural texts, and epigraphical records, may supply a fairly  
 complete picture of the playhouse of the Hindu period. It needs no elucida-  
 tion that the Hindu mind is essentially musical. Music was required for the  
 Hindus to celebrate one's birth, wedding and similar other happy occasions.

<sup>1</sup> Dr. Block : *Zeitschrift der Deutschen Morgenländischen*, Bd., LVIII, S. 455.

<sup>2</sup> Lüders : Indian Caves as Pleasure Resorts, *Indian Antiquary*, xxxiv, pp.  
 199-200. But Jacobi is still under the old prejudice when referring to the cave  
 theatre of Ramgarh hill he says that 'it is arranged after the Greek pattern.'  
 The cave theatres are, however, referred to in the *Kumāra-sambhava* (I, 10, 14)  
 and *Megha-dūta* (I, 25) of Kālidāsa.

<sup>3</sup> Rice : *Ep. Carnat.*, Vol. II, no. 130 ; Translation, p. 178. See also the Hampe  
 Inscription of Krishnaraya, lines 24, 32, North Face.

It was also required to mourn one's death and similar sad incidents including even calamities as like earthquakes and epidemics. Religious ceremonies had to be accompanied by music. These musics include both vocal and instrumental songs, dancing, and enacting of plays varying from a single act or scene to a performance which continued for days and nights. Thus the elements of drama are available in the earliest *Vedas*. The excavations at Mahenjo-Daro, Harappa and other sites may supply evidence of regular theatre even for the Pre-Vedic period. In order to carry out into practice the musical habit of the Hindus, which was so convincingly in existence for milleniums, no doubt suitable accommodation had to be found out by indigenous efforts and evolution. It would be the limit of prejudice to imagine that although the Hindus knew all about a dramatic performance and although the art of building was understood and successfully practised at least between 3000 and 4000 B. C. when Mahenjo-Daro edifices might have been erected, yet they did not think of constructing a playhouse even after the model of the then existing natural caves until the Grecian invaders supplied the pattern between 300 and 350 B. C. Those who are not thus prejudiced will find it easy to infer from the evidences quoted above and to come to the conclusion that there were in Hindu India rustic theatres for folk dance or popular performance, as well as regularly constructed playhouses of various shapes and sizes. They were built with scientific knowledge of acoustics, light, ventilation, safety and security. They were erected in villages, small country towns, centres of pilgrimages, and in big capital cities. They were attached to commodious dwelling houses, king's palaces, and god's temples. In all these constructions provisions were distinctly made for the stage proper and the auditorium. The former comprised the platform with a thick drop scene in front and the theatre proper with various realistic sceneries and curtains behind which even semi-nude dance could be performed, the indecency being prevented by the mistiness caused by the device of thin curtains and light. The green rooms and other rooms were made for dressing and resting of the actors and actresses, and even for an interview with them by some fascinated audience. The auditorium with the orchestra in front provided seats for all classes and ranks of audience, which were artistically arranged in tiers and galleries. It was adorned with beautiful doors, windows, balconies, and walls and ceilings with carvings and paintings on them. There were also open air auditorium with surrounding walls and terraces which latter served as galleries. But the stage appears never to have been uncovered either on the sides or at the top.<sup>1</sup>

<sup>1</sup> For further detail; see the writer's article, 'The Playhouse of the Hindu Period' (*Modern Review*, April, 1935, pp. 370-378, Krishnaswami Aiyangar's Commemoration Volume, pp. 363-380).



**NĀṬYA-MANḌAPA**—The stage proper consisting of raṅga-śirsha (stage-front), raṅga-piṭha (place for acting), and nepathya-gṛiha (green-room). In shape it should be like a mountain cave and have two floors :

Kāryaḥ Śailaguhākāro dvi-bhūmir nāṭya-manḍapa ।

(*Bharata-Nāṭya-śāstra* II, 84, also 91.)

The upper floor or the platform (Vedika, *ibid.* II 80) should be made of wood :

Evam kāshṭha-vidhiṃ kṛtvā bhitti-karma prajojayet ।—(*Ibid.*, II, 82.)

The surrounding walls should be made of bricks (śliṣṭeṣṭaka).

**NĀṬṬA (NĀṬYA)-ŚĀLĀ**—A detached building used as a music hall.

Nāṭṭa-śālā cha kartavyā dvāra-deśa-samāśrayā ।

And the music hall should be built attached to the gateway (of the temple).

(*Garuḍa-Purāṇa*, Chap. XLVII, v. 45.)

A maṇḍapa or hall for religious music, built in front of the main temple :

Durgga-devālayasyābharaṇam iva puraḥ sthāpayāmāsa gurvīm śrīmān  
śrīnātha-viryyaḥ sthagita-daśa-diśān nāṭya-śālām chhalena ।

(Dirghasi Inscrip. of Vanapati, lines 14–15,  
*Ep. Ind.*, Vol. IV, p. 316.)

**NĀBHI-VĪTHĪ**—A road proceeding from the central part of a village or town.

Brahma-bhāga-vṛiddhyā vīthir nābhi-vīthīti kathyate ।

(*Kāmikāgama*, xxv, 1.)

**NĀRAṆA**—A temple of Viṣṇu.

(Note on a Tamil Inscription in Siam, Hultsch,  
*J. R. A. S.*, 1913, pp. 337–339.)

**NĀRĀCHA**—A road running towards the east.

Prāṇ-mukhā vīthayaḥ sarvā nārāchākhye (ā i)ti smṛitāḥ ।

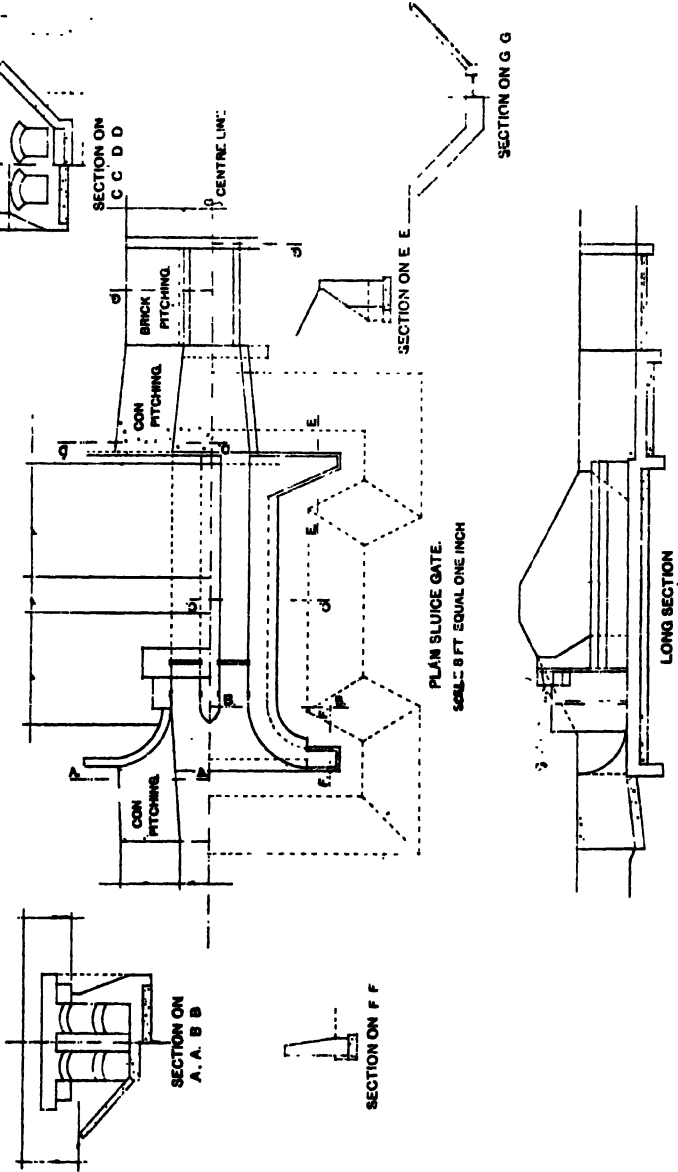
(*Kāmikāgama*, xxv, 3.)

**NĀLA**—A canal or gutter, channel, lotus stalk (*M.*, XIX, 144, 148, 153, etc.), a tubular vessel of the body (*M.*, I, 198, 201, 205, etc.), middle, central (*M.*, XXXIII, 360, XLIII, 14).

In connexion with the phallus.—(*M.*, LII, 294–296, etc.)



NALA GEHA.



NĀLA-GEHA—A canal-house, channel, *middle chamber*, central hall.

Bhitti-geham ihochyate |  
Tri-chatush-pañcha-śaḍ-bhāgaṃ saptāṃśaṃ kuḍya-vistāraṃ |  
Śeṣaṃ tu nāla-gehaṃ tu. . . . |

(*M.*, xxxiii, 359, 360.)

NĀLANDA—The famous Buddhist institution at Bihar, comprising several *vihāra*, *sangarāma*, *dharmaganja*, and *chaitya* buildings; there were colleges, halls, libraries, observatories, priests' chambers, 'richly adorned towers and the fairy-like turrets' and 'brilliant and magnificent memorial' buildings. 'The whole establishment is surrounded by a brick-wall. One gate opens into the great college, from which are separated eight other halls, standing in the middle. (Accounts of Hiuen Tsiang, I-tsing, Tibetan writers, Excavations, Archaeological Survey, and Sankalia); see under VIŚVAVIDYĀLAYA.

NĀLIKĀ (*see* NĀLA)—A canal, the lower leg.

Ekāṃśaṃ tad-dhataṃ bhitti-tāraṃ śeṣaṃ cha nālikā |

(*M.*, xxxiii, 438.)

The lower leg.—(*M.*, xlv, 42, etc.)

NĀLIKĀ-GARBHA—A rectangular hall of the length twice the breadth.

Nālikā gabbho ti bitt harato dviguṇita-guṇāyamo digha-gabbho |

(Buddhaghosha, *Chullavagga*, vi, 33.)

The interpretation of Oldenberg and Rhys Davids as 'patanquin-shaped' given under the translation of the term is not supported by the commentator Buddhaghosha as quoted above.

NĀLIKĀ-GRĪHA (*see* NĀLA-GEHA)—A canal house.

(*M.*, xix, 98, etc.)

NĀLI (*see* NĀLIKĀ)—A canal, a gutter.

Geha-tāre tu saptāṃśaṃ nāli-tāraṃ yugāṃśakam |

(*M.*, xix, 115; *see also* 116.)

NĀSĀ—A nose, a nose-shaped object, the upper piece of a door, a vestibule.

Vijñeyā nāsikā nāsā nāsā dvārordhva-dāru cha |

(*Amarakōsha*, ii, ii, 13.)

In connexion with the base :

Grāhādi-chitra-sarveshāṃ kṣudra-nāsādi-bhūshitam |

(*M.*, xiv, 236, etc.)

**NĀSIKĀ-(SI)** (*see* NĀsĀ)—A nose-shaped architectural object, a vestibule, an open court or porch before a house, a hall next to the entrance to a house, a bracket.

In connexion with the pillar (*M.* XVI 76, 77, 90. 120, etc.).

Some component part of a building (*M.*, XVII 207; XIX 174, etc.).

Chatur-dikshu chatur-nāsī (*M.*, L, 284).

*Suprabhedāgama*, XXXI (referring to a class of buildings) :

Chatush-kūṭās chatuḥ-śālās chatvāraḥ pārśva-nāsikāḥ | (48)

Mukha-nāsī tatha yuktaṁ dvā-daśaṁ chānu-nāsikāḥ | (49)

Chatur-nāsī-samāyuktam anu-nāsī-daśāśṭakam || (51)

Kūṭa-śālā-samāyuktā punaḥ pañjara-nāsikā || (52)

Pārśvayor nāsikā-yuktaṁ tan-madhye tanu(tvanu)-nāsikā || (79)

Eka-nāsikayā yuktaṁ pañjaram samudāhṛitam |

Kūṭeshu nāsikā-yuktaṁ koshṭham etat prakīrtitam || (80)

*Kāmikāgama*, LV (eight kinds of Nāsikā) :

Nāsikā tv-ashtadhā jñeyā tasyādau simha-samjñitam |

Sārdha-pañjaram anyat syāt tṛtīyaṁ matam || (132)

Shaped like the nose (*M.* XXXIII, 541).

Its height ends by the fore-part of the dome (*M.* XXXIII, 549).

*See also M.* XXXIII 550-561.

Shaped like śālā, śikhā, circular, galakūṭa (*M.* XXXIII, 552-553).

Niryūha-pañjaram paśchāt pañchamaṁ lamba-nāsikam |

Simha-śrotraṁ tu shashṭaṁ syāt khaṇḍa-niryūhakaṁ tathā |

Jhasa-pañjaram anyat syāt tāsāṁ lakṣhaṇam uchyate || (133)

They are also called pañjaras :

Sarveshām pañjarāṇām tu mānam evam udāhṛitam || (149)

The details of these nāsikās or pañjaras (*ibid.*, 134-146).

Śliṣṭa-prāsāda-nīvrāṅga-vipulam sama-nirgamam |

Shaṭ-varga-sahitam śakti-dhvajayor mukha-paṭṭikam | (134)

Vedikā-jālakā-stambha-rājitam simha-pañjaram |

Tri-daṇḍādi-chatur-daṇḍa-paryantaṁ vipulānvitam || (135)

Yathārhāyāma-samāyuktaṁ sūchi-pāda-dvayaṁ dvijāḥ |

Sarveshām pañjarāṇām tu madhyame samprajoyajet || (136)

Dhāmnī prāsādam āśliṣṭaṁ sanīvram śārdha-nirgatam |

Adhiṣṭhānādi-pañchāṅga-śakti-dhvaja-samanvitam || (137)

Mukha-paṭṭikayopetaṁ vedikā-jālakānvitam ||

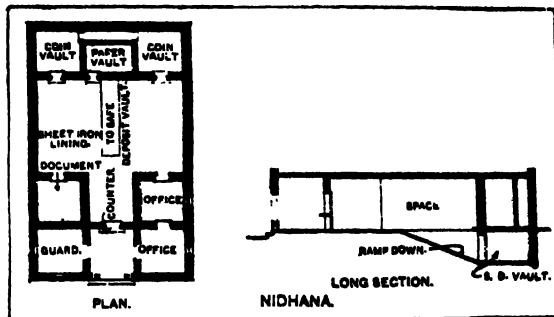
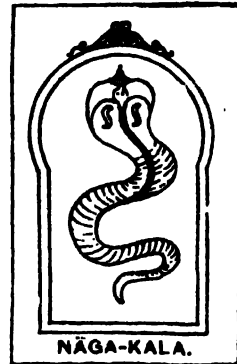
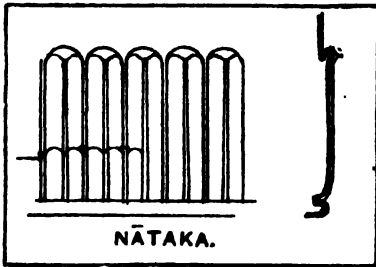
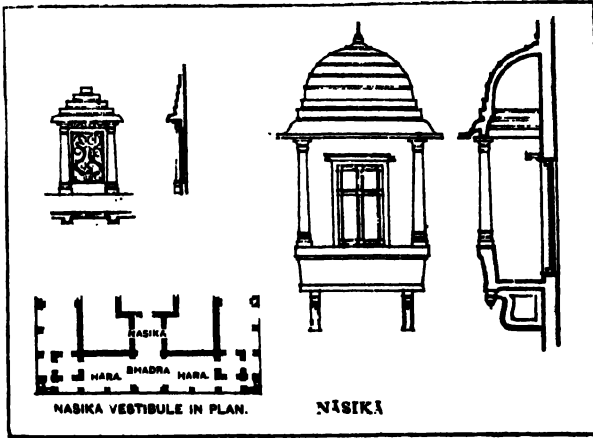
Karṇa-pāda-yutaṁ sārdha-pañjaram tu vidhīyate || (138)

Prāgvad vipula-samāyuktaṁ pāda-nirgamānvitam |

Tri-bhāgaṁ nirgatam vāpi vṛita-sphaṭika-sannibham || (139)

Pañjarasyādimaṁ śeṣha(m) prāgvad atra samīritam || (140)

Svānurūpa-śikhāsv-agraṁ śliṣṭa-nīvrāṅga-karṇakam |





Kapotādyan̄ga-saṃyuktam etan niryūha-pañjaram || (141)  
 Saṃśliṣṭa-nivra-karṇāṅghri-kṛita-nāga-talaṃ śiraḥ |  
 Niryūha-rahitaṃ yuktaṃ sarvāṅgaṃ lamba-nāsikam || (142)  
 Tad eva simha-śrotrābha-śikhaṃ yad-vad nivrakam |  
 Saṃśritaṃ karṇa-pādena simha-śrotraṃ tad uchyaṭe || (143)  
 Vistāre pañcamāṃśe tu dvyaṃśaṃ nirgamanāṅvitam |  
 Nivrādhastāt kapotādyair aṃśair maṇḍita-rupākam ||  
 Nāmnā tu khaṇḍa-niryūha(m) jñātvā samyak prayojayet || (144)  
 Daṇḍa-daṇḍānta-nishkrāntaṃ nivrādhastād upary-adhaḥ |  
 Aṅgair yuktaṃ kapotādyaiḥ kandharaṃ toraṇāṅvitam || (145)  
 Jhasa-pañjaram etat syād aṣṭamaṃ nāmataḥ dvijāḥ || (146)

**NĀHA-LIṄGA**—A kind of phallus.

Āchārya-hastena vā liṅgaṃ śiṣya -(sya)s tu nāha-liṅga-vat |

(*M.*, LI, 335 ; see details under LIṄGA.)

**NIGAMA**—A town, the quarters inhabited by traders, a market.

(*M.*, x, 42 ; see details under NAGARA.)

*Cf.* Nagara-nigama-jana-padānām—towns, marts and rural parts (e. g. Grāma-nagara-nigama, *Harshacharita*, p. 220, 1, 1.)—(Junagaḍh Inscip. of Rudradaman, lines 10-11, *Ep. Ind.*, Vol. VIII, pp. 43, 37, and note 5.)

Nigama-sabhāya-nibadha—registered at the town's hall.—(Senart, Nasik Cave Inscip. no. 12, line 4, *Ep. Ind.*, Vol. VIII, pp. 82, 83.)

**NIGAMA-SABHĀ** (see NIGAMA)—A guild-hall, the traders, assembly.

*Cf.* Eta cha sarva-srāvita-nigama-sabhāya nibaddha cha phalaka-vāre charitrā iti—'and all this has been proclaimed in the guild-hall and has been written on boards according to custom.'

'Nigama-sabhāya, 'in the guild-hall,' may also be translated 'in the assembly of the traders.' Dr. Burgess.—(Kshatrapa Inscip. no. 9, line 4, *Arch. Surv.*, New Imp. Series, Vol. IV, pp. 102, 103, note 3 on page 103.)

**NIDRĀ**—A moulding.

Vājanaṃ chaika-bhāgena nidrekā vājanaṃ tribhiḥ ||

Vājanaṃ chaika-bhāgena tathā nidrā tri-bhāgataḥ ||

(*Kāṃikāgama*, LV, 10, 11.)-

**NIDHĀNA**—A storc-room, a treasury.

Vimāna-śāleshu cha maṇḍapeshu nidhāna-sadm̄shv-āpi gopuresh-vāpi |

(*M.*, XIV, 397-400.)



NĪB(-V)IDĀ—An ornament covering the lower part of the pent-roof, a moulding.

Agraṃ vikaśitābhaṃ syān mūlaṃ cha nibiḍānvitam |

(*M.*, xviii, 245, etc.)

NIMNA(-KA)—The cavity, depth, depressed part, drip, projection, edge of an architectural or sculptural object, a moulding.

A moulding of the base (*M.*, xiv, 247, etc.; see the lists of mouldings under ADHISHṬHĀNA).

A moulding of the column (*M.*, xv 52).

A moulding of the pīṭha or pedestal of the phallus (*M.*, liii, 27).

Chatur-dikshu sabhadraṃ vā chaika-dvy-aṃśana nimnakam |

(*M.*, l, 285.)

The depressed part of the chin .

Hanvantam tad-dvayor madhye nimna-tuṅgam śivāyatam |

(*M.*, xlv, 103.)

NIRGAMA—The projection.

(1) *Mānasāra* :

The projections of the mouldings of the base (*M.*, xiv, 385-412 ; see under ADHISHṬHĀNA).

The projections of the mouldings of the pedestal (*M.* xiii, 128-146 ; see under UPAPĪṬHA.)

The projection of the (whole) pedestal (*ibid.* 20-35).

Cf. Nirgamodgamane vāpi putra-nāśam avāpnuyāt |—(*M.*, lxix, 19.)

(2) Nirgamaṃ tu punas tasya yāvad vai śesha-pañjikā |

(*Matsya-Purāṇa*, Chap. cclxii, v. 4.)

Chatur-dikshu tathā jñeyam nirgamaṃ tu tatoḥ budhaiḥ |

(*Ibid.*, Chap cclxix, v. 2.)

(3) Asṭamāśana garbhasya rathakānām tu nirgamaḥ |

(*Agni-Purāṇa*, Chap. xlii, v. 13 ; see also v. 14.)

(4) Nirgamas tu śukāṅghreś cha uchchhrāya-śikharārddhagaḥ ||

Chatur-dikshu tathā jñeyo nirgamas tu tathā budhaiḥ || (9)

Bhāgam ckaṃ grihītvā tu nirgamaṃ kalpayet punaḥ || (10)

Nirgamas tu samākhvātaḥ śeshaṃ pūrvavad eva tu || (14)

Sukāṅghriḥ pūrvavaj jñeyā nirgamochchhrāyakaṃ bhavet || (17)

(*Garuḍa-Purāṇa*, Chap. xlvii, vv. 4, 9, 10, 14, 17.)

(5) Śālanām tu chatur-dikshu chaika-bhāgāditaḥ kramāt |

Pāda-bhāga-vivṛiddhyā cha aṣṭa-bhāgāvasānakam || (101)

Vinirgamasya chāyāmo tad-vṛiddhyā tasya vistarahaḥ || (102)

Nirgamo gopurāṇām tu prākārād bāhyato bhavet || (127)

(*Kārikāgama*, xxxv, 101, 102, 127.)

Madhyāgāra-viniṣkrānta-nirgamaṇa samanvitaḥ ॥

Nirgamas tu dvi-bhāgena vistāra-dv(a)yaṁśa-mānataḥ ॥

(*Kāṁikāgama*, XLV, 24, 26.)

Adhyardha-dvi-tri-daṇḍo vā nirgamaś chodgamo bhavet ॥

(*Ibid.*, LIV, 21.)

(6) Sarveshām eva pādānām tat-pādaṁ nirgaṁ bhavet ॥

Of all columns the projection is one-fourth of the height.

(*Suprabhedāgama*, XXXI, 65.)

**NIRGALA**—A part of a swing, a moulding.

Āyase nirgalaṁ kuryād yojayet rajjum eva vā ॥

Vastrordhve chaika-hastāntaṁ dolāyā phalakāntakam ॥

Tad-ūrdhve vājanāntaṁ syān nirgalāyāmam Iritam ॥

Nirgalāgre dvayāgraṁ syāt phalakā-valayānvitam ॥

(*M.*, L, 168-171.)

**NIRETANA**—The forepart of the branch of an ornamental tree (kalpa-vṛiksha).

*Cf.* Bhramarair abhirāyuktaṁ sarva-śākhā-niretane ॥

(*M.*, XLVIII, 58.)

**NIRYŪHA**—A kind of a turret-like ornament on columns or gates a pinnacle, a turret; a chaplet, a crest, a head ornament, the crest of a helmet; a peg or bracket projecting from a wall to hang or place anything upon (*cf.* NĀGA-NIRYŪHA); wood placed in a wall for doves to build their nest upon: a door, a gate.

(1) Niryūhādyair alaṅkṛitya (*M.*, XLIX, 186, *etc.*).

(2) *Rāmāyaṇa* :

V. 9, 20 : Vimānair hema-niryūhaiḥ ॥

V. 9, 58 : Chāru-toraṇa-niryūhā (laṅkā) ॥

(3) *Mahābhārata* :

I. 43, 44 : Dvāra-toraṇa-niryūhair yuktaṁ nagaram ॥

I. 7, 96 : Aneka-vidha-prāsāda-harṁya-valabhī-niryūha-śatasam-kulaḥ (nāga-lokaḥ) ॥

(4) Harivaṁśa (*Pet. Dict.*), 5021 (5015, 5018, 5023) :

Nagaryāḥ paśchimaṁ dvāram uttaraṁ nāga-dvāraṁ pūrvaṁ nagara-niryūhaṁ dakṣiṇaṁ nagara-dvāram ॥

**NIRVĀSA-MANḌAPA**—A pavilion for banishment, a private room.

Tat-pure'lindam ekāṁśam athavā nirvāsa-maṅḍapam ॥

(*M.*, XXXIV, 326, *etc.*)

NIRVYŪHA—A cross circle, a small tower.

*Cf.* Mahā-vāraṇ vimānordhve nirvyūhānana-sarṇyutam ।

(*Kāṁikāgama*, XLV, 17.)

NIVĀTA-BHADRAKA—A class of chariots.

(*M.*, XLIII, 113 ; *see* under RATHA.)

NIVEŚANA—A resting place, a stall for cattle, a colonial settlement.

(*R.-V.*, 19, 9 ; VII, 19, 5.)

NISHADAJA(-DHA)—A class of pavilions, a type of building.

(*M.*, XXXIV, 152 ; *see* under MAṆḌAPA.)

A class of buildings without the kūṭa-śālā (top-hall) but with eight other halls and eight aviaries :

Prāsādo nishadhas tatra kūṭa-śālā-vihīnakāḥ ।

Aṣṭa-śālā-samāyuktaś chāśṭa-pañjara-sarṇyutaḥ ॥

(*Suprabhedāgama*, XXXI, 45.)

NISHADYĀ—A bedstead, a couch, a hall, a shop, a market place.

(*Situpāla-vadha*, XVIII, 15, etc.)

NISHIDHI (*see* NISADDHI)—A monument.

NISHKALA—A site plan.

Yugmaṁ nishkalaṁ proktaṁ ayugmaṁ sakalam tathā ।

(*M.*, VII, 73 ; *see* under PADA-VINYĀSA.)

NISHKĀSA—A verandah, a portico, a balcony, a projection.

Prāg-grivaḥ pañcha-bhāgena nishkāsaś tasya chochyate ।

Kārayet sushiram tadvat prākārasya tri-bhāgataḥ ॥

Prāg-grivaḥ pañcha-bhāgena nishkāśena viśeshataḥ ।

Kuryād vā pañcha-bhāgena-prāg-grivaṁ karṇa-mūlataḥ ॥

(*Matsya-Purāṇa*, Chap. CCLXIX, vv. 24-25.)

NISADDHI(NISĪDI) (*see* NISHIDHI)—A house for rest, a tomb, a monument.

(1) Rāmi setṭiyara Nisīdi—'The Nisīdi of Rāmi setṭi.'

'Nisīdi is given by Sanderson as a bill of acquaintance ; Dr. Bhau Dāji (*Journ. Bom. Br. R. As. Soc.*, Vol. IX, p. 315, Inscription, no. 4) translates it by house of rest, on the analogy of an inscription in the Udayagiri cave in Orissa ; this is probably its meaning as used here.' Dr. Fleet.—Sanskrit and old Kanarese Insc. no. LVI, *Ind. Ant.*, Vol. VIII, p. 246, note 48.)

(*Ep. Carnat.*, Vol. II, Inscriptions on Chandragiri, Vindhyagiri and in the town.)

(2) 'Erected a stone hall for gifts in Jinanāthapura and set up a tom. (nisidhiyah) in memory of the Mahā-maṅḍalāchāryya Devakīrti Paṇḍita Deva. (No. 40 ; Roman Text, p. 10, line 3 from the bottom upwards ; Transl., p. 122, line 19 f.)

(3) 'By Mādhavachandra Deva was the tomb (Nishadyakākārayeta) raised to his memory.' (No. 41 ; Roman Text, p. 12, line 15 ; Transl., p. 123, line 5.)

(4) 'The excellent minister Nāga-deva erected in memory of the famous Yogi Nayakīrti . . . a tomb (nishidhyālayam) to endure as long as sun, moon and stars continue.' (No. 42 ; Roman Text, p. 16 line 10, Transl., p. 124. line 4.)

(5) 'Raised a tomb (nisidhigeham) to her memory.' (No. 44 ; Roman Text, p. 20, line 23 ; Transl. p. 125, line 20.)

(6) 'A group of tombs (nisidhikā), a collection of ponds and lakes, who (but him) made these in memory of Nayakīrti Deva Saiddhāntika.' (No. 90 ; Roman Text, p. 73, line 23 ; Transl., p. 159, line 1.)

(7) 'He, from devotion to his *guru*, set up his tomb (nishayām). (No. 105 ; Roman Text, p. 80, line 27 ; Transl., p. 165, line 30.)

(8) 'Mānkabbe Ganti had erected a tomb (nisidhiggehadyam) for her *guru*.' (No. 139 ; Roman Text, p. 110, line 6 from bottom upwards ; Transl., p. 185, line 9.)

(9) 'Had a tomb (nisidhigeham) for him.' (No. 144 ; Roman Text, p. 114, line 22 ; Transl., p. 8, line 9 from bottom upwards.)

(10) 'His son Taila-gauḍa made a grant for the god Śiḍḍeśvara and set up this monument (nisaddhi).—(*Ep. Carnat.*, Vol. vii, Honnāli Taluq, no. 79 ; Transl., p. 174.)

(11) 'A third feature, even more characteristic of the style, is found in the tombs of the priests, a large number of which is in the neighbourhood of Moodbidri. Three of these are illustrated in the woodcut (no. 154, Fergusson). They vary much in size and magnificence, some being from three to five or seven storeys in height, but they are not, like the storeys of Dravidian temples, ornamented with simulated cells and finishing with domical roofs. The division of each storey is a sloping roof, like those of the pagodas at Katmandhu, and in China or Tibet.'

(Fergusson, *Ind. and East. Arch.*, p. 275.)

In Bengal, especially in Comilla and Noakhali Districts, these tombs or monuments, which are even now built, have generally the cone-shape. At the bottom there is in most cases a square cell or chamber. They are sometimes constructed in groups and supplied with chambers at the top, cf. Chātkhil Noakhali.

**NIHĀRA** (*see* PRĀKĀRA)—A court of the compound, a courtyard.

Dvityam anta-nihārā cha madhyama-hārā tṛtīyakam ||

(*M.*, xxxi, 11.)

**NIḌA**—A nest, a lair, a covered place.

In connexion with buildings :

Niḍasya chādho grīvo-vātāyanam kārayet |—(*M.*, xviii, 329.)

Toraṇair niḍa-bhadrādi-mule chordhve cha bhūshitam |

(*M.*, xx, 64.)

**NĪPYA(? RA)**—The lower portion, the end, the border as of a cloth

(*Mayamata*, xxxiii, 62, 63, 64.)

**NRĪTTA(-TYA)-MAṄḌAPA** (*see* MAṄḌAPA)—A detached building used as a music hall, a pavilion.

Nṛipāṇām abhishekārtham maṅḍapam nṛitta-maṅḍapam |

(*M.*, xxxiv, 38, etc.)

A pavilion generally in front of a temple, where religious music is preformed (*Suprabhedāgama*, xxxi, 96, 98; *see* under MAṄḌAPA).

**NETRA**—The eye, a side portico or porthole, gable-window (*M.*, xxxiv, 396), a wing (*M.*, xzxv, 101), face (*M.*, xxxv, 257-260).

Same as LALĀṬA (*M.*, xxxv 257-260).

**NETRA-KŪṬA** (*see* KARṆA-KŪṬA)—A front apartment, a side-hall, a corner-tower.

Pradhānāvāsa-netrastha-netra-kūṭa-dvayam nyayet ||

(*Kāmikāgama*, xxxv, 75.)

**NETRA-BHADRA** (*see* MUKHA-BHADRA)—A side tabernacle, side porch, portico.

Parito'lind(r)a-bhāgena vāraṇam mukha-bhadrakam |

Athavā netraḥbhadram syāt |—(*M.*, xxxiv, 251-252.)

Karṇaika-kara-bhadram syāt śālāgre netra-bhadrakam |

(*M.*, xxxv, 246, etc.)

**NETRA-BHITTI**—A side-wall.

Dakṣiṇe netra-bhittau vā grabhādhanam prakirtitam |

(*Kāmikāgama*, xxxv, 46, etc.)

**NETRA-ŚĀLĀ**—A side-hall.

Tad-adho bhū-praveśe tu tad dvārasyāvasānakam |

Shaṇṇam vai netra-śālānam antarāle cha vā sthalam ||

(*ibid.*, 81.)

Tach-chhālāyā dvi-pārśve tu netra-śāla sa-bhadrakam |

(*M.*, xxxvi, 40, etc.)

NEPHATHYA-GŔIHA—The green-room in a theatre (*see* details under NĀTYAGŔIHA).

NEMI (*see* PRĀKĀRA and PRADAKSHIṆA)—The circumference, a surrounding verandah or balcony.

(1) Nemih pādena-vistīrṇā prāsādasya samantataḥ ।

(*Agni-Purāṇa*, Chap. CIV, v. 7.)

(2) Nemih pādena vistīrṇā prāsādasya samantataḥ ।

Garbhaṁ tu dvi-guṇaṁ kāryyaṁ nemyā mānaṁ bhaved iha ॥

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 19-20.)

PAKSHA-(KA)—A side, a flank, a footpath.

In connexion with staircases (*M.*, xxx. 100, etc.).

In connexion with streets :

Evam vithir dvi-pakshaṁ syān madhya-rathyaika-pakshakā ।

(*M.*, xi, 350.)

In connexion with walls :

Anyat sālāṁ tu sarveshām chaika-pakṣnālayākshma-kramāt ।

Anyat sālāṁ tu sarveshām ālayārthaṁ dvi-pakshakam ।

(*M.*, xxxvi, 86-87.)

Compare chatuṣ-pakshām iva chhadīḥ (square roof), and

Yā dvipakshā chatuṣ-pakshā shaṭ-pakshā yā nirmāyate ।

Ashṭā-pakshām daśa-pakshāim sālāṁ mānasya patnīm agnir garte  
ivāśaye ।

(*Atharva-Veda*, IX, 3.)

*See* further illustration under EKA-PAKSHA and DVI-PAKSHA.

PAKSHAGHNA—A type of building.

Yāmyā hīnaṁ chullī tri-śālakam vitta-nāśa-karam etat ।

Pakshaghanam aparayā varjitaṁ suta-dhvarṇśa-vaira-karam ।

‘A building lacking a southern hall is called chullī ; it causes loss of prosperity, one in which there is no western hall (the so-called Pakshaghna, occasions the loss of children and (the) enmity.’—(*Bṛihat-Saṁhitā*, LIII, 38, *J.R.A.S.*, N. S., Vol. vi, p. 286.)

PAKSHA-ŚĀLĀ—A side-hall.

Madhya-koshṭhasya śāle tu bhadrā-śālā viśeshataḥ ।

Paksha-śālānviṭaṁ vātha ūrdhva-śālānviṭaṁ tu vā ।

(*M.*, XXXIII, 518-519.)

PAṆKA—A moulding of the pillar.

Śikharasyordhve paṭṭochcham uttarochcham samāṅ bhavet |

Tad-ūrdhve vājanam paṅkam nimnam kumbham saṅṅakam |

(*M.*, xv, 126-127.)

In connexion with joinery :

Eka-rūpa(m) cha paṅkam cha vidhiḥ syād eka-rupakam |

(*M.*, xvii, 153.)

PACHANĀLAYA—A kitchen, the refectory of a temple.

Devānām pachana-mandapam—' built a beautiful stone temple with the toraṅa-gate and the surrounding walls, having provided the temple with a flower garden, kitchen, pond and suitable environs.'—(*Ep. Carnat.*, Vol. x, Kolar Taluq, no. 132 ; Roman Text, p. 54 ; Transl., p. 49.)

PAṆCHA-TALA—The fifth storey, the five-storeyed buildings.

(*M.*, xxxiii, 1-55.)

A description of the fifth storey (*M.*, xxxi, 48-51).

The eight classes (*ibid.*, 1-48 ; see under PRĀSĀDA).

PAṆCHA-PRĀKĀRA-HARMYA—The various attached and detached buildings constructed in the five courts into which the whole compound is divided (see PRĀKĀRA).

(*M.*, xxxi, 2.)

PAṆCHA-BHŪMI (see PAṆCHA-TALA)—The fifth storey, the five storeyed buildings.

PAṆCHA-ŚĀLĀ—The enclosure wall of the fifth court.

(*M.*, xxxi, 28, 29.)

Cf. Tataḥ pañchama-sāla cha mahā-maryādīm iritam |

(*M.*, xxxi, 13, etc.)

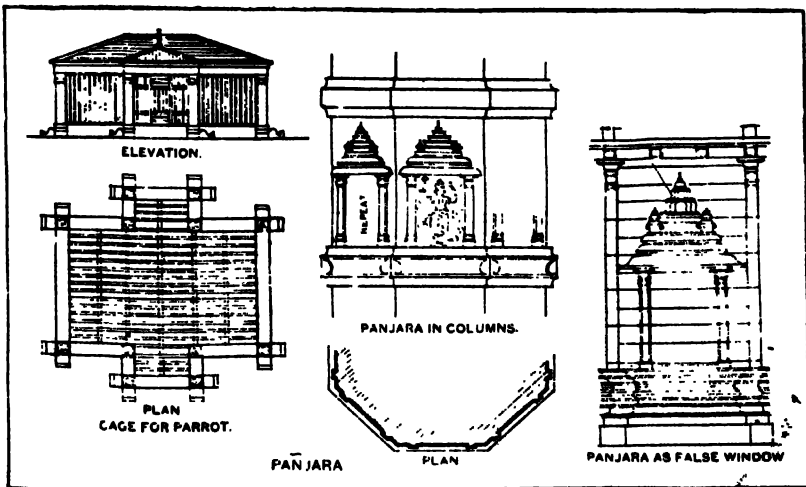
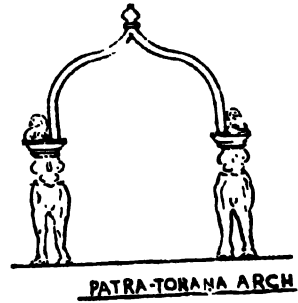
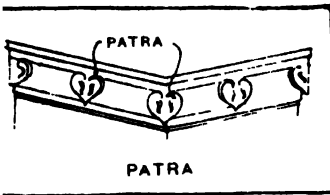
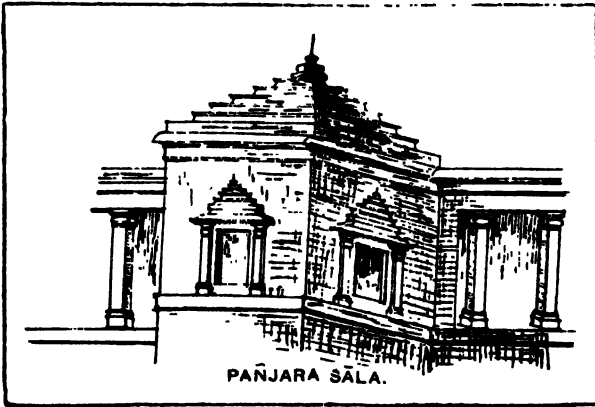
PAṆCHĀYATANA—A phallus with five heads.

(Chālukyān Architecture, *Arch. Surv.*, New Imp. Series, Vol., xxi, p. 39.)

PAṆJARA—A cage, an aviary, a nest, an architectural object, windows.

The cages for domestic birds and animals, such as pigeon, tiger, etc., are counted among the articles of furniture (*M.*, I, 50-55), their architectural description (*ibid.*, 213-288).—(*Kāmikāgama*, lv, 134-146 ; see under NĀSIKA.)

PAṆJARA-ŚĀLĀ—A small top-room, a small window, a class of storeyed buildings, a type of bedstead, a moulding, a nest-like architectural object.







(1) *Mānasāra* :

A small room above the dome (stūpi) :

Etat pañjara-śālāṃ cha padmam ekaṃ śikhā-trayam |

(*M.*, xv, 131.)

A class of the seven-storeyed buildings (*M.*, xxv, 27 ; see under PRĀLĀDA).

A synonym of the bedstead (*M.*, III, II).

A member of the pillar (*M.*, xv, 89, 98, 99-103, etc.)

In connexion with buildings of one to twelve storeys :

Śālā-kūṭa-dvayor-madhye chaika-hārā sa-pañjaram |

(*M.*, XIX, 57 ; see also 178, etc.)

(2) *Kāṃikāgama*, xxxv 75 :

Pañjara-dvitayam kāryam karṇa-kūṭa-samodayam ||

*Ibid.*, L, 92 :

Kūṭa-śālānvitam yat tu pañjaraiś cha samanvitam (vimānam) ||

*Ibid.*, LV, 196-198 (the synonyms of the pañjara) :

Prāmāṇa-bhavanam karma-prāsādasyāshṭakam tathā |

Sabheti kūṭa-nāma syāch chhāyā valabhī(r) eva cha ||

Brahma-dvāram tato madhye maṇḍapam koṣṭhake matam ||

Ṛiju-vaktram dvijāvāsam kriḍam syāt śimha-vaktrakam |

Pañjarābhidhānam syāt ||—(See further details under NĀSIKĀ.)

(3) *Sūprabhedāgama*, xxxi. 80 :

Eka-nāsikayā yuktaṃ pañjaram samudāhṛitam |

Kūṭeshu nāsika-yuktaṃ koṣṭham etat prakīrtitam ||

(See also v. 79, under NĀSIKĀ.)

(4) 'Between the "karṇa-kūṭa" and "śālā" are found some kinds of little windows called pañjara.'—(*Dravidian Arch.*, by Jouveau-Dubreuil, ed. S. Krishnaswami Aiyangar, p. 5.)

(5) 'His son Kaṅgala-deva having wandered abroad (as a mendicant) and brought alms, had a kūṭa-pañjara made for the god Hanumanta, and that fame might come to all, had a lipi-śāsana made and set up it.'—(*Ep. Carnat.*, Vol., vii, Channegiri Taluq, no. 17, Transl., p. 180 ; Roman Text, p. 317.)

(6) See Chālukyān Architecture (*Arch. Surv.*, New Imp. Series, Vol. XXI, Plates xxvi, xcvi).

(7) See *Mysore Arch. Report* (1915-16, p. 22, Plate x, fig. 2).

(8) See Cunningham : *Arch. Surv.* (Vol. I, Plate v, p. 6).

PAṬṬA—

PAṬṬIKĀ—

PAṬṬI—

} A band, a fillet, a moulding of the base, etc., an ornament for the body, a crown, a diadem, a turban, an upper garment, a cloth, a plate,

a slab, a seat, a junction, a town, an edict, a lintel (*M.*, XIX, 149), a staircase (*M.*, XXX, 140-143), a spoke (*M.*, XLIII, 11).

(1) 'It is often confounded with the moulding called 'vājana'' especially in pedestals and bases as it appears to be of the same form to be used in the same situation, and to have the same height and projection with the latter, but when employed in architraves and friezes its height and projection increases considerably.'—(Rām Rāz, *Ess. Arch. Hind.*, p. 25.)

(2) In connexion with the plough : phāla-paṭṭa, tri-paṭṭa, madhya-paṭṭa (*M.*, v, 52, 61, 73).

In connexion with the foundations :

Paṭṭikāntam kshipech chāpi vinyaset prathameshṭakam |

(*M.*, XII, 203.)

A crowning moulding of the pedestal (*M.*, XIII, 5, 49, 82, etc.; see the lists of mouldings under UPARIṬṬHA).

A moulding of the base (*M.*, XIV, 13, 26, 48, etc.; see the lists of mouldings under ADISHIṬṬHĀNA).

A moulding of the pillar (*M.*, XV, 121, 35, etc.).

In connexion with the staircase (*M.*, XXX, 140).

In connexion with the door (*M.*, XXXIX, 73, etc.).

In connexion with the bedstead (*M.*, XLIV, 18, 19, etc.)

An ornament for the body :

Kaṭi-sūtram tu samyuktaṁ kaṭi-prānte sa-paṭṭikā |

(*M.*, I, 27 ; see also 28, etc.)

Athavā ratna-paṭṭam syāt svarṇa-tāṅka-karṇayoḥ |

(*M.*, LIV, 47.)

Compare 'Paṭṭa-dhara,' and 'Paṭṭa-bhāj,' meaning kings, with special crowns.—(*M.*, LI, 3, 4.)

(3) Bhāgais tribhis tathā kaṅṭhaḥ khaṅṭha-paṭṭas tu bhāgataḥ |

Bhāgā (? go) bhyāsam ūrdhva-paṭṭas cha śesha-bhāgena paṭṭikā ||

Nirgamas tu punas tasya yāvad vai śesha-paṭṭikā ||

'The neck (of the pedestal of an idol or phallus) is made of three parts and the band of the neck of one part. The abhyāsa (!) is one part, the upper band is also one part, and the remaining part is paṭṭikā (fillet or band). Its projection should extend as far as the last paṭṭikā.'—(*Matya-Purāṇa*, Chap. CCLXII, vv. 3, 4.)

(4) Vedikām prastara-samām shaḍ-amsīkṛitya bhāgaśaḥ |

Ekāmsam prati-paṭṭam syād amsābhyām antarī bhavet |

Ūrdhva-vājanam ekāmsam amsam tat-paṭṭikā bhavet |

Ūrdhva-paṭṭam tad-ekāmsam antarī kusumair yutā ||

(*Vāstu-vidyā*, ed. Gaṇapati Śastri, ix, 23, 24.)

(5) Polakeśir apy-avādid anujān pratibaddha-paṭṭam avantu ।

' Pulakesi too declared to his brethren (in the presence of his vassals) that they were to support the encircling diadem of his sons and grandsons. '—(Grant of Kusumāyudha IV, line 18, *Ind. Ant.*, Vol. xxxii, pp. 282, 284.)

PAṬṬANA(-NA) (*see* PATTANA) --A town, a commercial city accessible by water-ways.

(1) *Kautilīya-Artha-sāstra* (Chap. xxii. p. 46, footnote) :

Pattanam śakaṭair gamyam ghāṭikair naubhir eva cha ।  
Naubhir eva tu yad gamyam paṭṭanam tat prachakshate ॥  
Droṇa-mukham jala-nirgama-praveśam paṭṭanam ity-arthaḥ ।

(*Rāyapaseṇi-sūtra-uyākyāne*, p. 206.)

(2) Karya-vikraya-samyuktam abdhī-tīra-samāśritam ।

Dśānīara-gata-janair nānā-jātibhir anvitam ॥  
Paṭṭanam tat samākhyātam vaiśyair adhyushitam ॥

(*Kāmikāgama*, xx, 8, 9.)

PAṬṬA-BANDHA --The coronation, a crown, a class of bases comprising four types which differ from one another in height and in the addition or omission of some mouldings.

*See* the lists of mouldings under ADHISHTHĀNA (*M.*, xiv, 297-304).

A part of the crown (*M.*, l, 111).

Nija-paṭṭa-bandha-samaye—' at the time of his coronation. '

(Six Eastern Chalukya Grants, Bervāḍa Plates of Chalukya-Bhima I, line 20, *Ep. Ind.*, Vol. v, pp. 129, 130.)

Godāvāri-taṭa-samīpasthe Kapitthakagrāme paṭṭa-v(b)andha-mahotsave tulā-purusham āruhya.

' The term Paṭṭabandha, which literally means " binding of the fillet " has been generally supposed to signify " coronation ceremony. " But, it does not suit here. ' Mr. D. R. Bhandarkar.—(Cambay Plates of Govinda IV, line 46, *Ep. Ind.*, Vol. vii, pp. 40, 27, note 2.)

Śrī-paṭṭa-bandhotsavāya Kurundakam āgatena māyā ।

(The grants of Indraraia III, no. 11, line 47,

*Ep. Ind.*, Vol. ix, pp. 40, 25, note 2  
refers to Vol. ix, p. 21, note 2.)

Coronation and crown :

. . . dvā-daśa-varshe tu janmanah paṭṭam ।

Yo'dhād udaya-girindro ravim iva lokānuśayā ॥

' Put on to please the world the fillet (crown) in the twelfth year of (his) birth. '

Niravadya-dhavalah Kaṭaka-rāja-paṭṭa-śobhita-lalāṭah—' (his son was) Niravadyadhavala, whose forehead was decorated with the fillet (crown) of Kaṭakarāja.' Dr. Hultzs. — (Maliyapundi grant of Ammaraja II, lines 40, 45, *Ep. Ind.*, Vol. ix, pp. 53, 55, 56.)

PAṬṬA-ŚĀLĀ—A religious establishment.

See Mandhata Plates of Jayasimha of Dhara (line 11, *Ep. Ind.*, Vol. iii, pp. 49, 47).

Cf. ' (To provide) for the eight kinds of ceremonies of the god Mallinātha of the paṭṭa-śāle(lā) which they had made within precincts of that Śāntinātha basadi.'—(*Ep. Carnat.*, Vol. v, Part 1, Belur Taluq, no. 129; Transl., p. 86; Roman Text, p. 193.)

PAṆḌI-ŚĀLĀ—A kind of hall, a two-storeyed mansion consisting of a single row of building which look like a broken staff at the forehead part above the second storey.

(*M.*, xxxv, 97; see details under ŚĀLĀ.)

PATTANA (*see* PAṬṬANA)—A village, a town, a commercial city on the bank of a river or sea, a new settlement.

(1) A village inhabited mostly by traders (Vaiśyas).

(*M.*, ix, 456-457.)

A town (*M.*, x, 40).

A seaside commercial city :

Abdhi-tīra-pradeśe tu nānā-jāti-gṛihair vṛitam ।  
Vanig-jātibhir ākirṇam kraya-vikraya-pūritam ।  
Ratnair dvīpāntarair nityaiḥ kshaumaiḥ karpūrādibhiḥ ।  
Etat pattanam ākhyātam vapṛāyata-samanvitam ।

(*M.*, x, 63-66.)

(2) A seaside commercial city inhabited mostly by tradesmen.

(*Kāmikāgama*, xx, 8, 9; see under PAṬṬANA.)

(3) *Kautilya-Artha-śāstra* (Chap. xxii, p. 46, footnote) :

Pattanam śakaṭair gamyaṁ ghāṭikair naubhir eva cha ।  
Naubhir eva tu yad gamyaṁ paṭṭanaṁ tat prachakshate ॥

(*Rāyapāseni-sūtra-vyākhyāne*, p. 206.)

(4) Pattanāni jala-sthala-pathayor anyatara-yuktāni ।

(*Praśna-vyākaraṇa-sūtra-vyākhyāne*, p. 306.)

(5) Tad-bhuktau pattanam ramyaṁ śamīpātūti nāmakam ।

(The Chahanas of Marwar, no. iv, Sevādi stone inscrip.  
of Katukarāja, v. 6, *Ep. Ind.*, Vol. xi, p. 31.)

(6) Piriya-Rājaiya-Deva, son of—, caused this town (paṭṭana) to be rebuilt and gave it the name of Piriyarāja paṭṭana (paṭṭana in

the text) after himself. . . . Whoever calls it Singapaṭṭana is guilty of killing his father and mother.'—(*Ep. Carnat.*, Vol. iv, Hunsūr Taluq, no. 15 ; Transl., p. 84 ; Roman Text, p. 135-136.)

(7) Dvā-trimśa(t) tu velāvuramum ashtādaśa-paṭṭanamum bāśashṭi yoga-piṭhamum—' (the people of) the thirty-two seaside towns, the 18 towns, 62 seats of contemplation. . . . (held a convocation there).'—(Old Kanarese Inscrp. at Terdāl, line 60, *Ind. Ant.*, Vol. xiv, pp. 19, 25.)

(8) Grāma-nagara-kheḍa-karvvaḍa-maḍamba-droṇamukha-pattanaṃ-galiṃdam aneka-māṭa-kūṭa-prāsāda-devāyatanaṃgaḷi-dam oppuvaagra-hāra-paṭṭanaṃgaliṃdam atiśayav-appa. . . .

' [At Teridāla, a merchant town situated in the centre and the first in importance among the twelve (towns) in the glorious Kuṇḍi Three Thousand, adorned with]—villages, towns, hamlets, villages surrounded by hills, groups of villages, sea-girt towns, and chief cities, with elegant mansions, palaces and temples, and with shining agrahāra-towns in the country of Kuntala. . . . '—(Old Kararese Inscrp. at Terdal, line 58, *Ind. Ant.*, Vol. xiv, pp. 19, 25.)

(9) ' With myriads of people, practices of virtues, agreeable occupations, streams of the (nine) sentiments, pleasure gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring festivals, ghaṭikā-sthānas (religious centres), the supports of dharmma and mines of enjoyments, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus faces of beautiful women fair as the moon (grāma-nagara-kheḍa-kharvvaṇa-maḍamba-droṇa-mukha-pura-pattana-rāya-dhāni). on whatever side one looked in these nine forms did the Kuntala deśa shine. '

(It should be noticed that the passage within brackets is almost identical with the corresponding passages in quotation no. 8 above).—(*Ep. Carnat.*, Vol. vii, Shikārpur Taluq, no. 197 ; Transl., p. 124, para. 1, last seven lines, Roman Text., p. 124, line 27 f.)

**PATRA**—A leaf, a leaf-like ornament, a moulding.

An ornament of the pillar (*M.*, xv, 36, etc.).

A member of the śālā or hall (*M.*, xxxv, 402).

*Cf.* Vatsarārambha-lekhārtham patram—A leaf for writing the almanac on.—(*M.*, L, 49.)

In connexion with the balance (tulā) (*M.*, L, 190-191, 197, 199).

*See* more details under BHŪSHANA.

**PATRA-PATṬA**—A leaf-shaped diadem, a moulding.

A turban or crown (*M.*, XLIX, 16).

A moulding of the base (*M.*, xiv, 345).

**PATRA-KALPA**—A set of ornaments for the use of kings and gods.

(*M.*, I, 3, 6; see under BHÜSHAṆA.)

**PATRA-TORAṆA**—An arch (see details under TORAṆA.)

Bāla-chandra-nibhaiḥ patrais chitritam patra-toraṇam ||

(*Kāṁikāgama*, LV, 64.)

**PATRA-BANDHA**—A type of entablature (see details under PRASTARA).

Pāda-vistāra-samyuktaṁ patra-bandham iti smṛitam |

(*Ibid.*, LIV, 6.)

**PATRA-VALLI-(KA)**—A moulding of the entablature (*M.*, XVI, 54), of the arch (*M.*, XLVI, 65).

See more details under PRASTARA.

**PATHA**—A road, a street, a way, a path.

(1) *Kauṣṭhīya-Artha-śāstra* (measures of various paths):

Antareshu dvi-hasta-vishkambham pārśve chatur-guṇāyāmam anu-prākāram aṣṭa-hastāyataṁ deva-patham kārayet |

Daṇḍāntarā dvi-daṇḍāntarā vā chāryāḥ (aṣṭa-hasta-pramāṇa-mārgaḥ-Rāyapasenī-sūtra-vyākhyāne, p. 13) kārayet |

Bahir jāuu-bhāginīm tri-śūla-prākāra-kūṭāvapāta-kaṇṭaka-pratisarādī-prishṭha-tāla-patra-śrīngāṭaka-śva-damshṭrārga-lopaskan-dana-pādukāambarisodapānakaiḥ chhanna-patham kārayet |

(Chap. xxiv, p. 52-53.)

Trayaḥ prācīnā rāja-mārgās traya undichinā iti vāstu-vibhāgaḥ |

Sa-dvā-daśa dvāro yuktodaka-bhūmich-chhanna-pathaḥ |

Chatur-daṇḍānatrā rathyā rāja-mārga-droṇa-mukha-sthāntya-rāshṭra-vivīta-pathaḥ |

Sayoniya-vyūha-śmaśāna-grāma-pathās chāshṭa-daṇḍāḥ |

Chatur-daṇḍas setu-vana-pathaḥ |

Dvidaṇḍo hasti-kshetra-pathaḥ |

Pañchāratnayo ratha-pathās chatyāraḥ paśu-pathāḥ |

Dvau kshudra-paśu-manushya-pathaḥ |

(Chap. xxv, 54-55.)

**PADA**—A part, the foot, a plot of the site plan (see PADA-VINYĀSA).

(1) *Vāstu-yāga-tattva* by Raghunandana quotes from the *Līṅga-Purāṇa* without further reference :

Chatuḥ-shashṭi-padam vāstu sarva-deva-griham prati |

Ekāśṭitis-padam vāstu mānusham pratisiddhidam ||

(2) *Bṛihat-Saṃhitā* (LIII, 42) :

Ekāṣṭi-vibhāge daśa daśa pūrvottarāyatā rektāḥ |

Varāhamihira apparently does not give different rules for temples and residential buildings.

(3) The foot ; the site plan (*M.*, LVII, 47, etc. ; VII, 1-267 ; see under PADA-VINYĀSA).

**PADA-VINYĀSA**—The plan, the site plan.

‘ The plan is the representation of the horizontal section of a building, showing its distribution, the form and extent of its various parts. This is the geometrical plan where the parts are represented in their natural properties. The modern architects consider other plans too : in the perspective plan objects are represented on a definite surface so as to form a certain position to affect the eye in the same manner as the objects themselves would ; while in the raised plan the elevation of a building is shown.’ (Gwilt : *Encycl. of Arch.*, Glossary, p. 1240.)

(1) *Mānasāra* (Chap. VII, named PADA-VINYĀSA) 1-267 :

The geometrical plans concerning the site, rather than a building, are described in this chapter (lines 1-267). There is no mention of the perspective or the raised plan. What is given there is all about the site or the plot or the piece of ground selected to receive the building. Thirty-two kinds of square plans are described (lines 2-40). They are designated by technical names. The first one is a site of one plot, which may be square, rectangular, round, oval or sixteen-sided, it is called *Sakala*. The second is of 4 plots, named *Paiśācha* or *Pechaka* ; the third, *Pīṭha*, is of 9 plots ; the fourth, *Mahāpīṭha*, is of 16 plots ; the fifth, *Upapīṭha*, is of 25 plots ; the sixth, *Ugra-pīṭha*, is of 36 plots ; the seventh, *Sihaṇḍila*, is of 49 plots ; the eighth, *Chañḍita*, is of 64 plots ; the ninth, *Parama-tāyika*, is of 81 plots ; the tenth, *Āsana*, is of 100 plots ; the eleventh, *Siḥāniya*, is 121 plots ; the twelfth, *Deśya*, is of 144 plots ; the thirteenth, *Ubhaya-chañḍita*, is of 169 plots ; the fourteenth, *Bhadra*, is of 196 plots ; the fifteenth, *Mahāsana*, is of 225 plots ; the sixteenth, *Padma-garbha*, is of 256 plots ; the seventeenth, *Triyuta*, is of 289 plots ; the eighteenth, *Karmāṣṭaka*, is of 324 plots ; the nineteenth, *Gaṇita*, is of 369 plots ; the twentieth, *Sūrya-viśālaka*, is of 400 plots ; the twenty-first, *Susāṃhita*, is of 441 plots ; the twenty-second, *Supratikānta*, is of 484 plots ; the twenty-third, *Viśālaka*, is of 529 plots ; the twenty-fourth, *Vīpra-garbha*, is of 576 plots ; the twenty-fifth, *Viveśa*, is of 625 plots ; the twenty-sixth, *Vīpula-bhoga*, is of 676 plots ; the twenty-seventh, *Vīprakānta*, is of 729 plots ; the twenty-eighth, *Viśālāksha*, is of 784 plots ; the twenty-ninth, *Vīpra-bhakti*, is of 841 plots ; the thirtieth, *Viśeśa sūra*, is of 900 plots ; the thirty-first, *Isarakānta*, is of 961



plots; and the thirty-second, *Chandrakānta*, is of 1,024 plots (*M.* vii, 2-50, *see also* 51-271).

(2) Nagara-grāma-durgādya(-der) gṛiha-prāsāda-ṛiddhaye |  
Ekāṣṭi-padair-vastu(m) pūjayet siddhaye dhruvam ||

(*Agni-Purāna*, Chap. cv, v. 1.)

(3) *See* Cunningham, *Arch. Surv. Reports*, Vol. II, Plate xcvi (site plans of Śaiva temples), p. 419; Plate xcvi (site plans of Vaiṣṇava temples), p. 421; Vol. xx, Plate xx (site plan of a Jaina temple); Vol. xxi, Plate xli (site plan of Slab temples of Kundalpur); Vol. xxiii, Plate xviii (site plan of Jaina temple of Naulakha, mark the Svastika figures); Vol. xii, Plate v (plan of a temple); Vol. xvii Plate xxi (peculiar plan of a temple).

(4) *See* elements of *Hindu Iconography*, by T. A. Gopinatha Rao (Appendix A, pp. 1-45, diagrams facing pp. 1, 11).

PADMA-(KA).—A lotus, an eye, a moulding, a cyma recta, a cyma reversa or reversed cyma also called ogee or talon (*see* Gwilt, *Encycl.*, figs. 869, 869), a site plan, a pavilion, a type of village, a class of buildings.

(1) 'The moulding, called Padma (abja, ambuja or saroruha, etc.), literary lotus, is supposed to resemble a petal of that flower. It is a sort of compound figure, partly convex and partly concave; and its section is composed of two opposite curves, meeting at the bisecting point of a line drawn between the points of recess and projection, and very much resembling the "cyma recta" and "cyma reversa" of the Western architects. This moulding is distinguished into greater and less, and forms the principal ornaments of Indian architecture. It is generally employed, in detached pairs, in bases and cornices, one facing the other in opposite directions, and is formed upright or the reverse according to its situation, either as a crowning member of the former or the supporting ornament of the latter. The concave part of it, when placed with its bottom reversed, is often so designed as to project forward or rise up, after having touched as it were, the fillet below, with a small perpendicular curvature, resembling in shape the petal of the lotus, with its pointed head somewhat inclined towards the top. In some specimens, this moulding is placed at the base of columns, and looks very much like an apophyge or ogee of the Ionic and Corinthian orders being formed either with a curved line having more or less convexity at the top, or with an upright tangent to the concave part below. It is sometimes made exactly in the form of an ovolo of the Western architects.'—(Rām Rāz, *Ess. Arch. Hind.*, p. 32-24.)

**Mānasūra :**

A site plan (*M.*, VIII, 36 f., see PĀDA-VINYĀSA).

A kind of village (*M.*, IX, 2 ; see under GRĀMA).

A moulding of the pedestal and the base (*M.*, XIII, 41, 61, 64, 68, etc. ; XIV, 68, etc. ; see the tests of mouldings under UPAPĪṬHA and ADHISṬHĀNA).

A type of pavilion :

Evam tu padmakam proktam devanām pachanālayam |

Padmākhyam pushpa-maṇḍapam. . . . |

(*M.*, XXXIV, 173, 180 ; see MAṆḌAPA.)

A moulding of pīṭha or the pedestal of the phallus (*M.*, LI, 31).

(3) Stambham vibhajya navadhā vahanam bhāgo ghaṭo'sya bhāgo'nyah |

Padmam tathottaroshṭham kuryād bhāgena bhāgena ||

Here, Kern's rendering of ' padma ' by ' capital ' seems untenable.

(*Bṛihat-Saṁhitā*, LIII, 29, *J.R.A.S.*, N. S., Vol. VI, p. 285 ; see details under STAMBHA.)

A type of building which is planned like a lotus, has only one storey and one spire, and is (?) 8 cubits wide (śayānashṭau) :

(4) *Bṛihat-Saṁhitā* (LVI, 23, see under PRĀSĀDA).

(5) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 30, 39, 49, 53 ; see under PRĀSĀDA ;

(6) *Bhaviṣṭya-Purāṇa* (Chap. CXXX, v. 30 ; see under PRĀSĀDA).

A class of round buildings :

(7) *Agni-Purāṇa* (Chap. CIV, vv. 17-18 ; see under PRĀSĀDA).

(8) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 28-29 ; see under PRĀSĀDA.)

**PADMA-KĀNTA**—A special type of pillar (*M.*, XV, 38). It is based on a seat (āsana), plinth or lotus (cyma). Its cornice or edge of the capital is decorated with opening buds. Its base is decorated with a bridge-like moulding (pālikā). The ornamental fillets are constructed and two aṅgulas (1½ inches) on all sides are adorned with foliage, jewels, flowers, etc. (*ibid.*, 30-37).

A class of the six-storeyed buildings (*M.*, XXIV, 3-12 ; see under PRĀSĀDA).

**PADMA-KEŚ(-S)ARA**—A type of base, a kind of throne.

A class of bases (*M.*, XIV, 81-94 ; see under ADHISṬHĀNA).

A type of throne (*M.*, XLV, 11-12 ; see under SMĪHASANA).

**PADMA-GARBHA**—A site plan in which the whole area is divided into 256 squares.

(*M.*, VII, 21.)

**PADMA-PĪṬHA**—A lotus-shaped pedestal for an image.

(*M.*, LI, 86.)

**PADMA-BHADRA**—A type of throne.

(*M.*, XLV, 12; see under **SIṂHĀSANA**.)

**PADMA-BANDHA**—A class of bases comprising four types which differ from one another in height and in the addition or omission of some mouldings.

(*M.*, XIV, 170-194; see the lists of mouldings under **ADHIṢṬHĀNA**.)

A base (*cf.* *Suprabhedāgama*, xxx, 18-22) :

Utsedham sapta-viṁśat tu dvi-bhāgā paṭṭikā bhavet ॥  
 Ekāṁśam dalam evoktam upānam chaika-bhāgikam ।  
 Jagatī tu shad-aṁśā syād dvi-bhāgārdha-dalī-kramāt ॥  
 Ardha-bhāgam bhavet skandham bhāgam ūrdhva-dalam tathā ।  
 Tri-bhāgam kumudam vidyād adho'bjam bhāgam eva tu ॥  
 Paṭṭikā chaika-bhāgā tu grīvā chaiva dvi-bhāgikā ।  
 Tad-ūrdham cka-bhāgam tu padma-bandham tata upari ॥  
 Dvi-bhāgā paṭṭikā yā tu cka-bhāgena yojanam ।  
 Tad vṛiteś chaika-bhāgam tu padma-bandham iti smṛitam ॥

**PADMĀSANA**—A lotus seat, a lotus-like posture in which an image is carved, a throne, a type of base, a kind of pedestal.

A lotus-shaped pedestal and base of a column (*M.*, xv, 67; XLVII, 19).

A type of throne (*M.*, XLV, 12; see under **SIṂHĀSANA**).

A lotus-shaped pedestal for an image (*M.*, LIV, 36, etc.).

**PARAṬA** (corrupted into **PĀRAṬA**)—The parapet, the coping of a wall.

*Cf.* Bādāviya Durgavanu mūḍaṇa pāraṭavanu Chāmarāja—Chāmarāja constructed the fort and the eastern parapet of that same Bādāvi.—(Sanskrit and Old Kanarese Inscript., no. LXXXVII, lines 13, 14, *Ind. Ant.*, Vol. x, p. 63, notes 51, 53.)

**PARAMA-ŚĀDHI(-YI)KA**—A site plan in which the whole area is divided into 81 equal squares (*see* **PADA-VINYĀSA**).

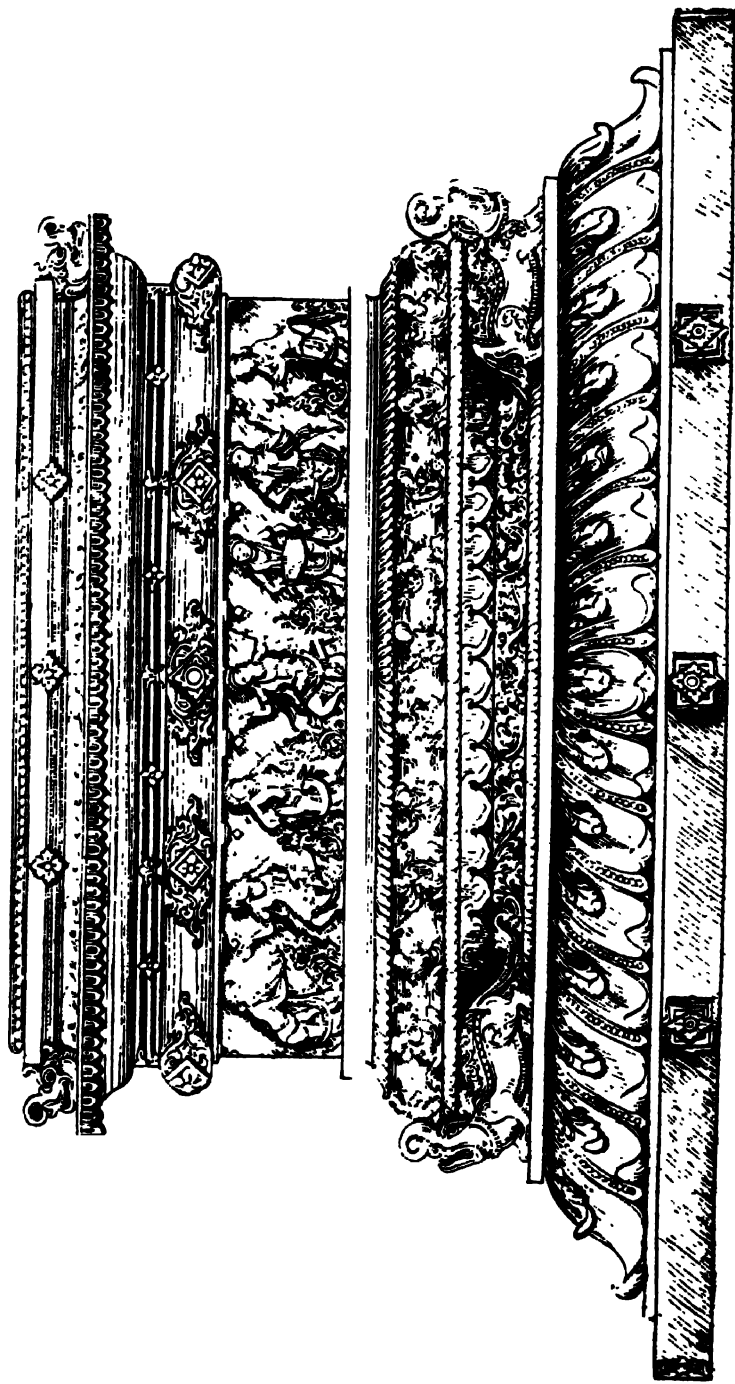
(*M.*, VII, 10, 72, 110; almost same in *Bṛihat-Saṁhitā*, LIII, 42 f.)

In connexion with the plan of a village (*M.*, IX, 174) and of a wall (*M.*, XL, 72).

**PARĀRTHA-LINGA**—A phallus for the public worship.

(*M.*, LI, 243; see details under **LINGA**.)

**PARIKHĀ**—A ditch, a moat, a trench round a fort or town.





(1) *Mānasāra* :

In connexion with a village and a fortified city :

Vaprāmśa-bhitti-rakshārtham paritaḥ parikhānvitam |

(*M.*, ix, 354.)

Sarveshām api durgāṇāṃ vaprāś cha parikhair vṛitam |

(*M.*, x, 106.)

Bāhye prākāra-samyuktaṃ paritaḥ parikhānvitam |

(*M.*, ix, 450.)

Paritaḥ parikhā bāhye vpra-yuktaṃ tu kārayet |

(*M.*, x, 108.)

Paritaḥ parikhā bāhye kuryād grāmeshu sarvaśaḥ |

(*M.*, ix, 62, etc.)

(2) *Kauṣīṭhya-Artha-śāstra* (Chap. xxiv, pp. 51, 56, paras. 2, 3) :

Tasya parikhās tisro daṇḍāntarā kārayet chatur-daśa dvā-daśa  
daśeti daṇḍānūvistīrṇāḥ vistārād avagāḍhāḥ pādūnam ardhmaṃ vā  
tri-bhāga-mulā mūle chaturāśrāḥ pāshāṇopahitāḥ pāshāṇeshṭakā-  
baddha-pārsvā vā toyāntikoragās tu toyapūrṇā vā sa-  
parivāhāḥ padma-grahatiḥ |

Chatur-daṇḍāvakraśṭarṇ parikhāyāḥ śhaḍ-daṇḍochchhritam ava-  
ruddhaṃ tad-dviguṇṇ vishkambhaṃ khātād vpraṃ kārayet |

*Ibid.*, Chap. xxv, para. 1 :

Dvārāṇi bahiḥ parikhāyāḥ |

(3) Durga-gambhīra-parikhām durgām anyair dur-āsādām |

Sarvataś cha mahā-bhīmāḥ śīta-toyāśayāḥ śubhāḥ ||

Agādhā grāha-sampūrṇāḥ parikhā mīna-sevitāḥ ||

(*Rāmāyaṇa*, I, 5, 13, 15.)

Yantrais tair avakīryante parikhāsu samantataḥ ||

Parikhās cha śatagṇyaś cha yantrāṇi vividhāni cha ||

(*Ibid.*, vi, 3, 17, 23.)

Parikhābhiḥ sapadmābhiḥ sotpalābhir alamkṛitam ||

(*Ibid.*, vi, 5, 2, 14.)

(4) Parighe for Parikhe (Satyamangalam plates of Devaraya II, v. 22, *Ep.*, *Ind.*, Vol. III, pp. 38, 40).

(5) Durllamgha - dushkara - vibheda-viśāla - sūla-durggādha - dustara-  
brihat-parikhā-paritā |

'(The city of Kañchi) whose large rampart was insurmountable and hard to be breached (and) which was surrounded by a great moat, unfathomable and hard to be crossed.'—(Gadval Plates of Vikramāditya I, v. 6, line 21, *Ep. Ind.*, Vol. x, pp. 103, 105.)

(6) Kanakojjvala-sāla-raśmi-jālaiḥ parikhāmbu-pratibimbaitair alah yā vasudheva vibhāti bāḍabārchchir vṛitā-satnākara-mekhalā-paritā ॥

‘Through the mass of the rays (which issue from) its golden walls, and which are reflected in the water of its moat, this (city, Vijayanagara) closely resembles the earth, that is surrounded by the girdle of the ocean, which is encircled by the lustre of the submarine fire.’—(Vijayanagara Insc. of Devaraja II, lines 7-8, *H.S.I.I.*, Vol. 1, no. 153, pp. 162, 164.)

(7) Durge subhima-parighe Maḷavalli nāmni—‘in the fort named Maḷavalli, having a deep moat.’—(*Ep. Carnat.*, Vol. III, Malavalli Taluq, no. 61, Roman Text, last verse, p. 126; Transl., p. 62.)

PARIKHĀ-DURGA—A ditch-fort, a fort.

For details see Sukraniti, etc., under DURGA.

PARIGHA(-GHĀ)—Cross-bars to fasten the door, a beam; metal bolts.

(*Chhand. Upanishad*, II, 24, 6, 10, 15.)

(1) Dvau dvau parighau (*Keuṣīliya-Artha-sāstra*, Chap. xxxiv, p. 53).

Chatvāro hasti-parigha—four beams to shut the door against elephants.’—(*Ibid.*, Chap. xxiv, p. 53.)

(2) Dṛidha-vaddha-kapāṭam mahā-parighavanti cha ॥

(*Rāmāyana*, VI, 3, 11.)

PARIṆĀHA—Otherwise called Mārga, Pravṛṣa, Pariṇāha, Nāha, Vṛiti, Āvṛiti and Nata, the width, breadth, circumference, extent.

Grivā-madhya-pariṇāhaś chatur-vimśatikāṅgulaḥ ॥

Nābhi-madhya-pariṇāho dvi-chatvāriṁśad-aṅgulaḥ ॥

The width by the middle of the neck is 24 angulas.

The width by the middle of the navel is 42 angulas.

(*Matsya-Purāṇa*, Chap. CCLVIII, vv. 43, 58; see also vv. 41, 47, 50, 51, 53, 54, 55, 56, 57, 59, 63, 66, etc.)

See *Mānasāra* (IX, 68, etc.); *Kirātārjunīya* (XII, 20, etc.); *Mṛichchakatika* (III, 9, etc.); *Mahāvīra-charita* (VII, 24, etc.); *Mālatī-mādhava* (III, 15; *Stana-pariṇāha*, etc.); *Ratnāvalī* (II 13, etc.); *Śiśupāla-vadha* (I 19, etc.).

PARIMĀṆA—The measurement of width or circumference.

(*M.*, LV, 3-9; see under MĀNA.)

PARIRATHYĀ—A road suitable for chariots (*A.-V.*, VII, 8, 22; XII, 1, 47).

**PARIVĀRA(-RĀLAYA)**—The family ; the attendant deities ; the subordinate temples, attached or detached, of a large religious establishment, where the attendant deities are enshrined.

(1) *Mānasāra*, Chap. xxxii (named Parivāra) :

The temples of these deities are stated to be built round the Prākāra (the fourth enclosure) :

Sarveshām api devānām prākārānta-praviṣṭhake |

Paritaḥ parivārānām lakṣhanam vakshyate' dhunā | (1-2)

At the eight cardinal points of the innermost or the first court the temples of the group of eight deities are built (lines 3-5). The groups of sixteen and thirty-two deities are housed in the second and the third court respectively (lines 6-7). Between the third and the fifth court is stated to be the Viniyoga (offering)-pavilion (line 8). The description of the location of temples for each of the deities of these three groups is given (lines 10-119). The temples of the attendant deities of Viṣṇu are specified (lines 121-156). The temples and the attendant deities of Gaṇeśa and Kṣhetrapāla and also those of Buddha, Jina and all such petty (kshudra) gods are passed over and stated to be built in accordance with the rules of *Śāstras* (lines 157-166).

It should be noticed that the description of temples intended for so many deities does not contain any measurement, etc. It is solely occupied with the position of these temples or deities in the compound. But a considerable portion of the chapter is devoted to the description of the maṇḍapas (pavilions) for such purpose as bath, bed, assembly, horses, musicians, dancing girls, and cows, etc. (lines 67-101).

(2) Etc parivārā vāstoḥ pūjanīyā prayatnataḥ |

(*Mahānirvāṇa-Tantra*, XIII, 45.)

(3) Pārsvataś chāpi kartavyam parivārādikālayam |

At the side (too) should be built temples for the attendant and other deities.

(*Matsya-Purāṇa*, Chap. cclxx, v. 30.)

(4) Parivārālaye tuṅga-harmye anyasmin prakalpayet ||

(*Kārikāgama*, I, 69.)

Parivārālayānām tu kulavat karma chācharet |

Sālānām tu chatuṣkoṇeṣhv-ishṭa-deśe pragṛīhyatām ||

Mālikā-yukta-sālām chet koṇa-stambhe dvitīyake |

Prathamāvaraṇe vāpi dvitīyāvaraṇe nyaset ||

(*Ibid.*, xxxi, 95, 96.)



(5) Pañcha-prākāram evaṁ syāt parivārālayaṁ śṛiṇu ॥

Prāsādasya chaturthaṁ vā tad-ardhaṁ vārdham eva vā ।

Mātrīṇām (of female deities) ālayaṁ kuryād gopurākāram eva  
tu ॥

Haṣṭi-prīṣṭhaṁ tapa (taṁ) proktaṁ prāsādaṁ tu viśeshataḥ ।

Madhyaṁ tu pachanākāraṁ chatuḥ-sālaika-śālakam ॥

Prākāra-saṁyutaṁ kṛtvā bāhye vābhyantere' pi vā ॥

(*Suprabhedāgama*, xxxi, 128-31.)

Then follows the description of their faces and doors (*ibid.*, vv. 131-133, *see* under DVĀRA).

(6) ' (He) gave to the (image of) Piḷḷaiyār Gaṇapati in the surrounding hall (parivārālaya) of the temple of the Lord Śrī Rājarājeśvara one brass spittoon (paḍikkam) which he had caused to be made of octagonal shape in the Ceylon fashion (Irapariśu) (and) which weighed palam.'—(Inscrip. of Rājarāja, no. 36, *H.S.I.I.*, Vol. II, p. 149 f.)

(7) ' This image was probably in the central shrine and was known as Ālaiyattu Piḷḷaiyār perhaps to distinguish him from the Parivārālaiyattu-Piḷḷaiyār set up apparently in the enclosing verandah of the temple.'—(*V. S. I. I.*, Vol. II, no. 85, p. 407, last para.)

' The gold presented until the twenty-ninth year (of the king's reign) by the Lord Śrī Rājarājadeva to (the image of) Piḷḷaiyār Gaṇapatiyār in the parivārālaya of the temple of the Lord Śrī Rājarājeśvaramudaiyār . . . ' parivārālayah. i.e. the temple (ālaya) of the attendant deities (parivāra) which was probably in the enclosing hall.'—(*Ibid.*, no. 86 para. 1, p. 410, note 1.)

' One bell-dish . . . was presented . . . to (the shrine of) Piḷḷaiyār Gaṇapatiyār in parivārālaya of the temple of the Lord Śrī Rājarājeśvaramudaiyār . . . '—(*Ibid.*, no. 88, p. 412.)

(8) Parivāra-devatā-vistaramaṁ līṅga-pratiṣṭheyaṁ māḍisidam ।

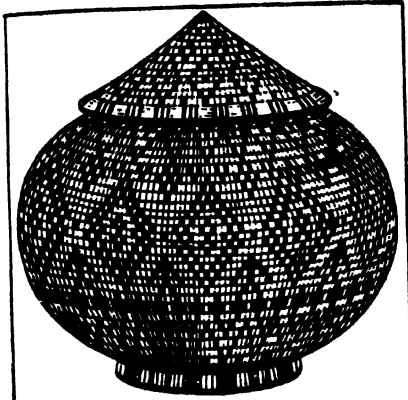
' He also set up a līṅga, with the associated gods, in Bandaṇika.'—(*Ep. Carnāt.*, Vol. VII, Shikarpur Taluq, no. 242 ; Transl., p. 139, para. 6, last two lines ; Roman Text, p. 248, lines 1-2.)

PARI-VEṆA—Monk's cell, the private dwelling of a Bhikhu within the monastery.

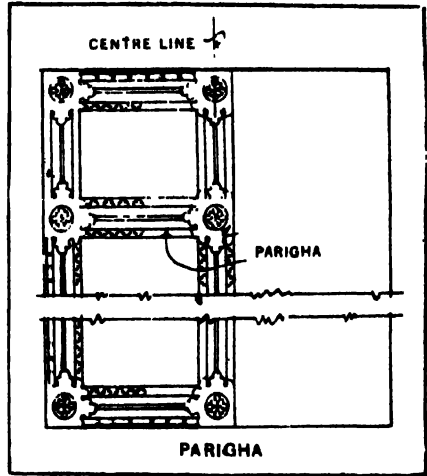
(W. Greiger : *Mahāvāṅśa*, p. 294.)

PARṆA-MAÑJUSHĀ—A basket made of leaves, an article of furniture.

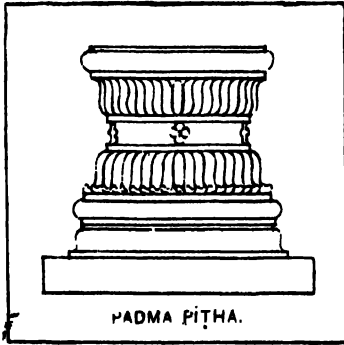
(*M.*, L, 47, 132-146 ; *see* details under BHŪSHANA.)



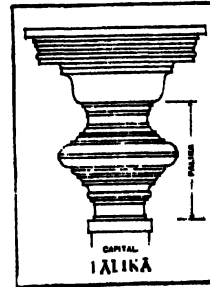
PARMA MANJUSHA



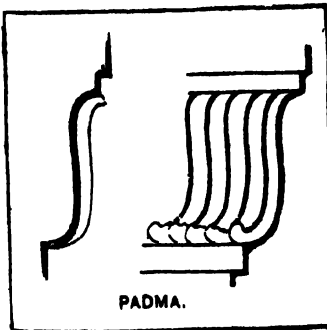
PARIGHA



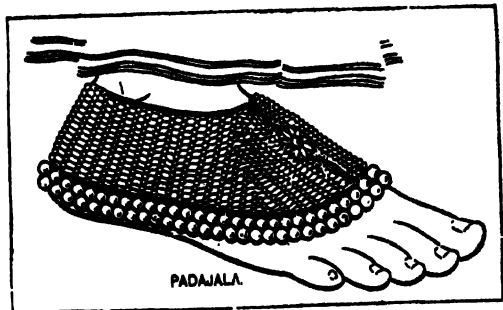
PADMA PIṬHA.



CAPITAL  
IALINA



PADMA.



PADAJALA



**PARYAÑKA**—A couch, a bedstead.

*Mānasāra*, Chap. XLIV (named *Śayana*) :

Bedsteads are meant for the use of deities, the twice-born and all other people :

Devānām cha dvi-jātinām varṇānām śayanārthakam । (1)

They are of two kinds—the small (*bāla-paryañka*) and the large (*paryañka*) (lines 26, 28). The former is intended to be used by children and the latter by the grown-up, the one being distinguished from the other by its size alone.

The measurement and various parts of the two kinds of bedsteads are described separately (lines 3-79).

The materials of which bedsteads and seats (*āsana*) are generally constructed are various kinds of timber (line 74).

**PARVATA**—A class of buildings.

Kūṭa-śālā-samāyuktā punaḥ pañjara-nāsikā ।

Vedikā-jālakopetā parvatākṛtir uchyate ॥

(*Suprabhedāgama*, XXXI, 52.)

See details under **PRĀŚĀDA**.

**PALLAÑKA**—A bedstead.

(*Chullavagga*, VI, 141 ; *Mahāvagga*, V, 10, 3.)

**PAVANA**—A type of chariot.

(*M.*, XLIII, 113 ; see under **RATHA**.)

**PASTYA(Ā)**—A dwelling house, a stall for horses (*aśvapastyā*), a home with its adjuncts and surroundings, a family settlement (*harmya-pastyā*), a noble man's abode with stables, etc., a group of houses, a river having groups of houses on its banks. (*R.-V.*, I, 25, 10, 40, 7, 164, 30 ; IV, 1, II ; VI, 49, 9 ; VII, 97, 5 ; VIII, 7, 291, 27, 5 ; IX, 65, 23 ; X, 46, 6, 96, 10, 11 ; IX, 86, 41 ; *A.-V.*, VI, 77, 1 ; XIX, 55, 1.)

**PĀÑCHĀLA**—A class of the twelve-storeyed buildings once prevailing in the ancient country of Pāñchāla (the Gangetic Doab).

For details, see *M.*, XXX, 8-10, under **TĀLA** and **DRĀVIDA**.

**PĀDA** (see **STAMBHA**)—The foot, the lowest part, a quarter, the fourth part, the architrave, a pillar, a column.

(1) *M.*, XV (named *Stambha*), 1-448 :

Its synonyms are jaṅghā, charaṇa, stali, stambha, śaṅghrika, sthāṇu sthūpa, pāda, kampa, araṇi, bhāraka, and dhāraka (*ibid.*, 4-6).

(2) Atha vakshyāmi saṁkshepāt pāda-mānaṁ yathā-vidhi |  
Uttaropānayoṛ madhya-gatam etat prakirtitam ||

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, IX, 1.)

(3) The architrave of the entablature (*Kāṁikāgama*, XXXV, 27; LIV, 47; see under PRASTARA).

(4) The comparative measures of pāda (pillar), adhiṣṭhāna (base) and praṣṭara (entablature) :

Pādāyāmam adhiṣṭhānaṁ dvi-guṇaṁ sarva-saṁmatam |

Pādārdhaṁ praṣṭaraṁ proktaṁ karṇaṁ praṣṭaravat samam ||

(*Suprabhedāgama*, XXXI, 28.)

The five kinds of pillars and their characteristic features.

(See *Suprabhedāgama*, under STAMBHA.)

PĀDA-JĀLA—An ornament for the foot.

(*M.*, L, 33; LI, 59; LIV, 17, etc.; see BHŪSHANA.)

PĀDA-BANDHA—A class of bases.

(*M.*, XIV, 10-32; see the lists of mouldings under ADHIṢṬHĀNA.)

A base in connexion with the bedstead :

Pāda-bandham adhiṣṭhānaṁ sarva-jātyārhaṁ bhavet |

(*M.*, XLIV, 44.)

Cj. *Suprabhedāgama* (XXXI, 23-26) :

Adhiṣṭhānasya chotsedhaṁ chatur-viṁśati-bhājitam |

Dvi-bāgā paṭṭikā proktā hy-upānaṁ chaika-bhāgikam ||

Shaḍ-bhāgā jagatī proktā kumudaṁ pañcha-bhāgikam |

Ekāṁśā paṭṭikā proktā grivā chaiva tryaṁśakā ||

Ekāṁśā paṭṭikā viddhi (ḥ) tr(i)yaṁśā chordhva-paṭṭikā |

Mahā-paṭṭikā tr(i)yaṁśā ekaṁ vājanam uchyate ||

Pāda-bandham iti khyātaṁ sarva-kāryeshu pūjitam ||

PĀDA-BANDHAKA—A type of throne.

(*M.*, XLV, 15; see under SĪMĪHĀSANA.)

PĀDA-VEDI—The storeyed base of a Buddhist stūpa (*Mahāvamsa*, 35, 2), the ḥalustrade, the railing.

(W. Greiger : *Mahāvamsa*, p. 297.)

PĀDĀṄGA—Literally the lowest member, hence, the architrave or the bottom portion of the entablature.

(See *Kāṁikāgama*, LIV, 47, under PRASTARA.)

PĀDUKA—The plinth, the pedestal, the base, a moulding.

The plinth or the base (*M.* XIV, 162; see the lists of mouldings under ADHIṢṬHĀNA).

The pedestal (or base) of a column :

Tan-mūle chāsanam kuryāt pādukaṁ vā sahāmbujam |  
Ekāṁśam pādukaṁ kuryāt pañcha-bhāgaṁ tu saṅgraham |

(*M.*, xv, 31, 177.)

A moulding at the bottom of the pedestal (*M.*, xiii, 43; see the lists of mouldings under UPARIṬṬHA).

PĀRĀVATA-NĪḌA—A nest for the pigeon, an article of furniture.  
(*M.*, I, 52, description of its architectural details, 224-227.)

PĀRIYĀTRA—A class of pavilions.

(*M.*, xxxiv, 154; see under MAṆḌAPA.)

PĀRŚVA-PULI—An ornament, a part of the crown.

(*M.*, xlix, 94.)

PĀRŚVA-PŪRITA—Same as karṇa-pūra or patra—ear-ring.

(*M.*, xlix, 96, 106, 115, 117-119, 141; cf. I, 14-26, 302.)

PĀLIKĀ(-I)—A boundary, a margin, an edge, an ornament, a bridge-like moulding of the column.

Atha vakshye viśeṣeṇa kumbhālaṅkāram uchyate |  
Tan-mūle pālikotsedhe vibhajet tu śaḍ-āṁśakam |

(*M.*, xv, 201-202; see also 220, 44, 33, 70, etc.; cf. xxxvii, 40.)

In connexion with the lips :

Tr(i)yaṁśārdhbādhārāyām chārdha(m)-chandravad-ākṛiti |  
Tri-vaktraṁ chottarā pāli chā(? śā) ntaraiś chaiva saṁhyutam |

(*M.*, xlv, 95-96; see also 89.)

PĀLIKĀ-STAMBHA—A kind of pillar.

(*M.*, xv, 39-73; see under STAMBHA.)

PĀSŪPATA—A kind of phallus.

(*M.*, lii, 2; lxviii, 2; see under LIṄGA.)

PĀSHĀNA-KŪRMA—A stone tortoise, a component part of a phallus.

(*M.*, lii, 178.)

PĀSHĀNA-VEDI—The stone terrace on which the sacred trees usually stand, cf. *Mahāvastū*, 36, 52.

PASHYA—Stone-bulwarks.

(*R.-V.* 1, 56, 6.)

PIṄḌA—The testicle, its sculptural details.

(*M.*, LXV, 166.)

PIṄḌIKĀ (*see* PĪṬHA)—The pedestal of an image, a seat, the yoni part or the pedestal of the phallus.

(1) Dvāra-mānśhṭa-bhāgonā pratimā syāt sapinḍikā ।

Dvāu-bhāgau pratimā tatra tritīyānśhā(ś) cha pinḍikā ॥

'The idol along with the seat (i.e., pedestal) ought to have a height equal to that of the door, diminished by one-eighth, of which two-thirds are appropriated to the image, and one-third to the seat.'—(*Bṛihat-Saṁhitā*, LVI, 16 ; *also* LVIII, 3, 54 ; *J.R.A.S.*, N. S., Vol. VI, pp. 318, 323, 329.)

(2) Liṅga-pūjā-pramāṇena kartavyā pīthikā budhaiḥ ।

Pinḍikārdhena bhāgaḥ syāt tan-mānena tu bhittayaḥ ॥

(*Matsya-Purāṇa*, Chap. CCLXXX, v. 8.)

(3) Pratimāyāḥ pramāṇena kartavyā pinḍikā śubhā ।

Garbhas tu pinḍikārdhena garbha-mānśh tu bhittayaḥ ॥

(*Agni-Purāṇa*, Chap. XLII, v. 10.)

Arddha-bhāgena garbhaḥ syāt pinḍikā pāda-vistarāt ।

Pañch-bhāgikṛite kshetre'ntar-bhāge tu pinḍikā ॥

Garbho bhāgena vistṛṇo bhāga-dvayena pinḍikā ॥

Pinḍikā koṇa-vistṛṇā madhyamāntā hy-udāhṛitā ॥

Ataḥ paraśh pravakṣhyāmi pratimānśh tu pinḍikānśh ।

Dairghyeṇa pratimā tulyā tad-arddhena tu vistṛitā ॥

(*Ibid.*, Chap. CV, vv. 1, 5, 24.)

Then follows a lengthy description (*see* *ibid.*, Chap. LV, v. 1, f. *also* Chap. CV, v. 30 ; Chap. LX, v. 1).

(4) Mānśhṭamena bhāgena pratimā syāt sapinḍikā ॥

Dvau bhāgau pratimā tatra tritīyo bhāgaḥ pinḍikā ॥

Tri-bhāgaḥ pinḍikā kāryā dvau bhāgau pratimā bhavet ॥

(*Bhaviṣya-Purāṇa*, Chap. CXXX, vv. 22, 32 ; Chap. CXXXI, v. 6.)

The yoni part or the pedestal of the phallus :

(5) Liṅgaśh cha pinḍikāśh chaiva prāsādam gopuraśh tathā ।

(*Suprabhāṅgama*, XXX, 28.)

(6) Kuryād ekāśh pinḍikāśh taśh tu pārīve ।—(*M.*, LX, 152.)

PIṄḌĪ—A base for an image, the yoni part or pedestal of the phallus.

(*Inscrip. from Northern Gujarat*, no. VII, line 8, *Ep. Ind.*, Vol. II, p. 27, *see* details under PĪṬHA.)

PĪṬHA(-ṬHIKĀ)—Pīṭha is possibly corrupted from pi-sad to sit upon, hence means a stool, seat, chair, throne, pedestal, altar. A wooden seat (*Vāj. Sam.*, xxx, 21 : *Taitt. Brā.*, III, 4, 17, 1), low rectangular, plain or carved and sometimes with painted designs. The pedestal of an idol, the yoni part of the phallus, a pavement, chairs of various kinds (*Mahāvagga*, v, 10, 2 ; see BHADRĀPĪṬHA, ETAKA-PADĀKA PĪṬHA). Fire-altars of the Vedic and Brāhmanic periods built on river banks, mistaken by Alexander for memorials, which Chandra Gupta Maurya utilized for sacrificial purposes. A site-plan of nine square plots. (*M.* VII, 4).

The well-known fifty-one Pīṭha-sthānas are the sacred spots where the limbs of Pārvati, consort of Śiva, fell after she had been cut to pieces by the discuss of Viṣṇu.

As the līṅga or phallus symbolically represents Śiva, so the pīṭha does his consort Pārvati. The pīṭha forms the yoni or the lower part of the phallus.

*Mānasāra* (Chap. LIII, named PĪṬHA) :

The pīṭha must match the phallus of which it forms the lower part (line 49). It should, therefore, be of as many kinds as there are phalli. But the mouldings of the pīṭha are described under four classes, technically called Bhadra-pīṭha, Śrībhadra, Śrīvīṭala, and Upapīṭha (lines 34, 36, 39, 41). The principal parts of the pīṭha are the nāla (canal), the jaladhārā (gutter), the ghṛita-vāri (water-pot), the nimna (drip), and the paṭṭikā (plate) (lines 22-27). The component mouldings are prathama or janman (base), padma (cyma), kshepaṇa (projection), kandhara (neck, dado), kampa (fillet), ūrdhvapadma (upper cyma), vājana (fillet), ghṛita-vāri (water-pot), or vṛitta-kumbha (circular pot) (lines 30-33).

With regard to shape, the pīṭhas, like the phalli and all other architectural and sculptural structures, are divided into three types, the Nāgara, Drāviḍa, and Vesara (lines 46-47). The Nāgara pīṭhas are said to be square, the Drāviḍa pīṭhas octagonal, and the Vesara pīṭhas circular or round (lines 53-54).

A site plan in which the whole area is divided into nine equal squares.—(*M.*, VII, 4 ; see PADA-VINYĀSA.)

▲ pavement on the side of a road :

Pechakam vātha pīṭham vā rathyā yuktam tu viṇyaset |

(*M.*, IX, 423.)



In connexion with the palm of the hand :

Patra-tulyaṃ yugāṅgūlyaṃ pīṭhe tuṅga(m) dvayāṅgulaṃ |

(M., L, 197.)

The pedestal of an image :

Uttamaṃ lohajaṃ bimbaṃ pīṭhābhāsaṃ tu chottamaṃ |

(M., LI, 19 ; see also LVI, 16 ; LXII, 13, etc.)

The pedestal of the phallus (M., LI, 245, 246, 247.)

(2) Etat sāmānyam uddiṣṭaṃ prāsādasya hi lakṣaṇam |  
Līṅga-mānam ato vakshye pīṭho līṅga-samo bhavet ||  
Dvāravat pīṭha-madhya tu śeṣaṃ sushirakaṃ bhavet ||

(Garuḍa-Purāṇa, Chap. XLVII, vv. 11, 16.)

The pedestal or the yoni part of the līṅga :

(3) Līṅga-viṣkambha-mānena bhaved dvi-tri-chatur-guṇaḥ |  
Tathā pañcha-guṇo vāpi pīṭha-vistāra ishyate ||

(Kāmikāgama, L, 45 ; see also vv, 44, 47, 48, 50.)

The altar :

Brahma(-me) vā madhyame bhāge pīṭhaṃ parikalpayet ||

(Ibid., xxviii, 18.)

Pañch-daśa-karāntaṃ tu kuryād āvṛita-maṇḍapam ||

Maṇḍapena vinā vāpi tena mānena pīṭhikā |

Vibhadrā vā sabhadrā vā kartavyā mālīkā budhaiḥ ||

(Ibid., xxxv, 99, 100.)

Here 'pīṭhikā' would indicate the projecting part of the base-ment, resembling the Buddhist railing round a tree, etc.

(4) Yāval līṅgasya viṣkambhaṃ tri-guṇaṃ pīṭha-vistaram ||  
Pūjāmsaṃ dvi-guṇaṃ pīṭhaṃ tri-guṇaṃ vā viśeṣataḥ ||  
Pīṭhasya tri-guṇaṃ garbhaṃ ta(t)-tri-bhāgaika-bhittikam |

(Suprabhedāgama, xxxi, 9, 11, 12.)

(5) Bhāga-dvayena pratimā tri-bhāgikṛitya tat punah |

Pīṭhikā bhāgataḥ kāryā nātinīchā na chochchhritā || (25)

Pīṭhikā lakṣaṇaṃ vakshye yathāvad ṣṇupūrvaśaḥ |

Pīṭhochchrāyaṃ yathāvach cha bhāgān shoḍaśa kārayet || (1)

Bhūmāvekaḥ pravaiṣṭaḥ syāch chaturbhir jagati matā |

Vṛitto bhāgas tathaikaḥ syād vṛitaḥ paṭala-bhāgataḥ || (2)

Bhāgais tribhis tathā kaṇṭhaḥ kaṇṭha-paṭṭas tu bhāgataḥ |

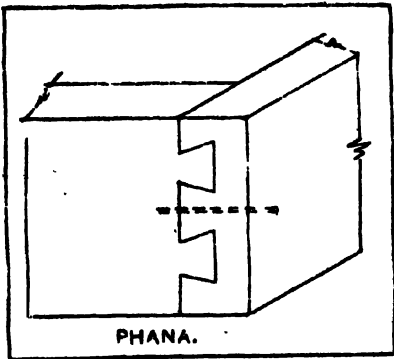
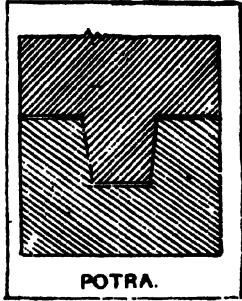
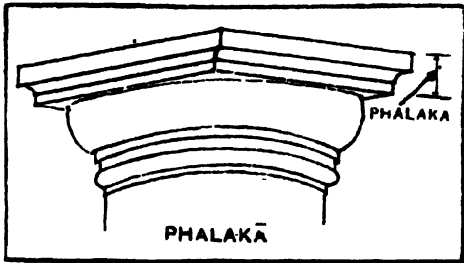
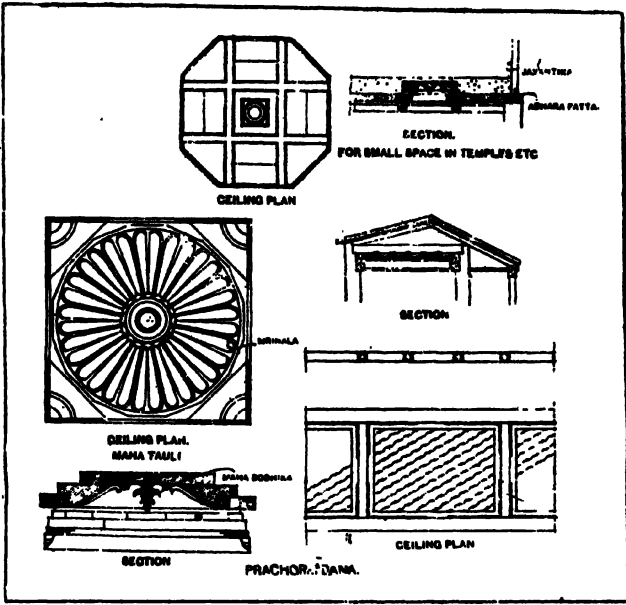
Bhāgābhyaśam ūrdhva-paṭṭas cha śeṣa-bhāgena paṭṭikā || (3)

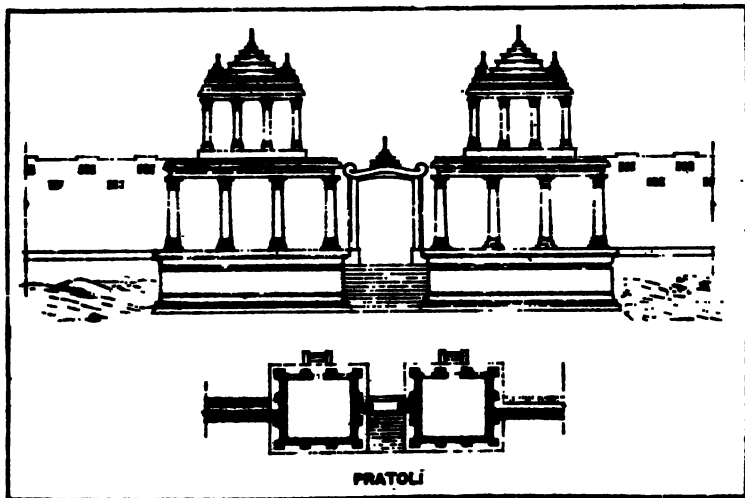
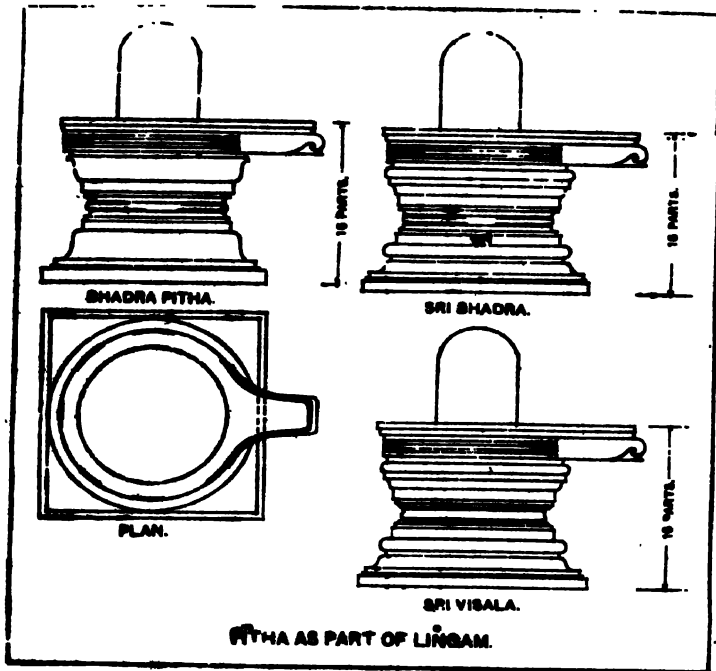
Pravaiṣṭaṃ bhāgam ekaikaṃ jagatīm yāvad eva tu |

Nirgamaṃ tu punas tasya yāvad vai śeṣa-paṭṭikā || (4)

Vāri-nirgamanārthaṃ tu tatra kāryaḥ praṇālakaḥ |

Pīṭhikānām tu sarvāsām etat sāmānya-lakṣaṇam || (6)





Pūrṇa-chandrā vajrā cha padmā vārdha-śaśi tathā |  
 Tri-koṇā daśamī tāśān samsthānam vā nibodhataḥ || (7)  
 Devasya yajanārtham tu pīṭhikā daśa kīrtitāḥ || (19)  
 Līṅga-pūjā-pramāṇena kartavyā pīṭhikā budhaiḥ || (8)

(*Matsya-Purāṇa*, Chap. CCLVIII, v. 25; Chap. CLXII,  
 vv. 1-4, 6-7, 19; Chap. CCLXIX, v. 8.)

Vibhajya navadhā garbham madhye syāl līṅga-pīṭhikā |

(*Ibid.*, Chap. CCLXX, v. 15.)

(6) Pañcha-hastasya devasya eka-hastā tu pīṭhikā |

When the idol is 5 cubits high, its pedestal is one cubit.

(*Agni-Purāṇa*, Chap. XLII, v. 22.)

(7) 'One pedestal (pīṭha) on which the god and the goddess stood, (measuring) one muram and two viral in length, sixteen viral in breadth, and six viral in height.'—(Inscrip. of Rājarāja, no. 30, para. 7, *H.S.I.I.*, Vol II, p. 137.)

(8) 'One pedestal (surmounted by) a lotus (padma-pīṭha) on which this (image of Pañchadeha Śiva) stood (measuring) three viral and four torai in height, and fifteen viral and four torai square.'—(Inscrip. of Rājarāja, no. 30, on a pillar of the south enclosure, para. 4, *H.S.I.I.*, Vol. II, p. 138.)

(9) 'The hero Mādavan of Anḍa . . . got this pīṭham (pedestal) made.'—(*Ep. Carnat.*, Vol. x, Kolar Taluq, no. 109 b; Transl., p. 40.)

'He had a temple and a bali-pīṭha built for the god Chandra-śekhara, the processional form of the god Śaṅkareśvara of Kergoḍi.'—(*Ibid.*, Vol. vii, Tiptur Taluq, no. 72; Transl., p. 57.)

(10) 'Whose daughter, Vināpati, having at this very place bestowed the entire gift of a Hiraṇya-garbhā, and having made a pedestal (pīṭha) for the god with rubies.'—(Sanskrit and Old Kanarese inscrip., no. xciv, line 7, *Ind. Ant.*, Vol. x, p. 103.)

(11) 'He made petition at the feet of Vidyāraṇya-Śrīpāda, representing that in Śrīngapura, in (connexion with) the dharmma-pīṭha (religious throne;—sīmhāsane dharmamaye, in the original) established by Śaṅkarāchāryya (-chārya, in the original), there must be a maṭha and agrahāra.'

Of this dharmma-pīṭha (sīmhāsana), Mr. Rice further says: 'The Śringeri dharmma-pīṭha or religious throne was established as is well known' (refers to the inscription quoted above) by Śaṅkarāchāryya, the great Śaiva reformer of the eighth century. It is situated on the left bank of the Tuṅgā river, in a fertile tract near the Western Ghats. The celebrated scholar Mādhyava or Vidyāraṇya (forest of learning), author of the *Veda-bhāṣya*, who was instrumental in founding the Vijayanagar Empire in 1336, was the head of

the establishment at that time.' (Then is added that his brother was Sāyana, the well-known commentator of the *Rig-Veda*. The architectural characteristics are, however, not given.)—(*Ep. Carnat.*, Vol. vi, Śringeri Jāgir, no. 11; Transl., p. 95, last para.; Roman Text, p. 195, lines 1, 12 f; Introduct., p. 23, para. 5.)

(12) 'Possessor of thirty-two velāma, eighteen cities, sixty-four yoga-pīṭhas, and sixty-four ghaṭikā-sthānas.'—(*Ep. Carnat.*, Vol. vii, Shikārpur Taluq, no. 94; Transl., p. 61, line 7 f; Roman Text, p. 114, line 4 f.)

(13) Dvā-triṅśat tu velāvuramum aṣṭādaśa-paṭṭaṇamum bāsasṭi-yoga-pīṭhamum aṣuvattanāṅku-ghaṭikā-sthānamum |

'(The people of) the thirty-two seaside towns, the 18 towns, 62 seats of contemplation, and 66 religious centres . . . (held a convocation.)'—(Old Kanarese inscrip. at Terdal, line 60, *Ind. Ant.*, Vol. xrv, pp. 19, 25.)

(14) 'Having thirty-two velāma, eighteen cities, sixty-four yoga-pīṭhas, and āśramas at the four points of the compass.'—(*Ep. Carnat.*, Vol. vii, Shikārpur Taluq, no. 118; Transl., p. 86, last para., line 6.)

(15) 'Made a grant . . . of the Mallasamudra village . . . belonging to the Sādali throne (pīṭhikā).'—(*Ep. Carnat.*, Vol. x, Sidla-ghatta Taluq, no. 94; Transl., p. 194, last para.)

(16) Pīṭhi—a pedestal (Raṅganāth inscrip. of Sundara-pandya, v. 19, *Ep. Ind.*, Vol. iii, pp. 13, 16).

(17) Purāṇa-pīṭhe pīṭhāntaram sa chaturam vidhivad vidhāya |

(Chebrolu Inscrip. of Jaya, postscript., lines 7-8, *Ep. Ind.*, Vol. v, pp. 115-151.)

(18) Pīṭhikā—a platform of stone (*see* Specimens of Jain Sculptures from Mathura, Plate III, *Ep. Ind.*, Vol. II, p. 320).

PRITHIVĪ-DHARA—A type of oval building.

(1) *Agni-Purāṇa*—(Chap. civ, vv. 19-20, *see* under PRĀSĀDA).

(2) *Garuḍa-Purāṇa*—(Chap. XLVII, vv. 29-30; *see* under PRĀSĀDA).

PUNḌARĪKA—A class of the seven-storeyed buildings.

(*M.*, xxv, 3-23; *see* under PRĀSĀDA.)

PUR—A fortification, a small fortified place, a township (*see* NAGARA).

PURA—A big fortified city as in Tripura and Mahāpura described in the *Yajur-Veda* and *Brahmaṇḍa-Purāṇa* (*see* references under NAGARA) but apparently less pretentious than the capital cities (nagara), a castle, a fortress, a village, a fortified town, a city, a wall, a rampart, a house, an abode, a residence, the female apartments, a store-house, an upper storey.

A village (*M.*, ix, 215, etc.), a town (*M.*, x 39, etc.).

Grāmādināṃ nagarādināṃ puṣa-pattana-kharvaṭe |  
Koshṭha-kolādi-sarveshāṃ garbha-sthānam ihochyate |

(*M.*, xi, 168-169.)

Kheṭānāṃ cha purāṇāṃ cha grāmāṇāṃ chaiva sarvaśaḥ |  
Trividhānāṃ cha durgāṇāṃ parvatodaka-dhanvināṃ ||  
Param ardhārdham āyāmaṃ prāg-udak-plavanaṃ puram ||  
Chatur-aśra-yutaṃ divyaṃ praśastaṃ taiḥ puram kṛitam ||

(*Brahmaṇḍa-Purāṇa*, Part 1, 2nd *anushaṅgapāda*,  
Chap. vii, vv. 105, 107, 108 ; see also v. 93.)

Pura-madhyam samāśritya kuryād āyatanam raveḥ |

(*Bhaviṣya-Purāṇa*, Chap. cxxx, v. 40.)

(4) Karkkoṭādhīna-rakshaṃ svapuram idam atho nirmame Jāvṛishākhyam —‘ then built this town of his named Jāvṛisha, the protection of which was entrusted to Karkoṭa.’—(Buddhist Stone inscrip. from Sravasti, lines 4-5, *Ind. Ant.*, Vol. xvii, pp. 62, 63.)

(5) Jagapāla puram jātam kṛite deśe punar ṇave—in the newly re-created site, the town of Jagapāla grew up (i.e., was built).—(Rajim inscrip. of Rajapal, line 12, *Ind. Ant.*, Vol. xvii, p. 140.)

(6) ‘ With myriads of people, practices of virtue, agreeable occupations, streams of the (nine) sentiments, pleasure gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring festivals, ghaṭikā-sthānas (religious centres), the supports of dharmma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of beautiful women fair as the moon (grāma-nagara-kheḍa-kharvvaṇa-maḍamba-droṇa-mukha pura-pattana rājadhānī) on whatever side one looked in these nine forms did the Kunṭala-deśa shine.’—(*Ep. Carnat.*, Vol. vii, Shikārpur Taluq, no. 197 ; Transl., p. 124, para. 1, last seven lines ; Roman Text, p. 214, line 27 f.)

(7) ‘ The three puras belonging to the great royal city (? rājadhānī) Balligāve.’—(*Ep. Carnat.*, Vol. vii, Shikārpur Taluq, no. 99 ; Transl., p. 66-last two lines.)

PURATO-BHADRA (see MUKHA-BHADRA)—The front tabernacle, a porch, a portico, a vestibule.

Deva-śrī-śaṣibhūṣaṇasya (i.e., of Śiva) kṛitvā devālayam kārītaṃ-yugmaṃ maṇḍapa-śobhitaṃ cha purato-bhadraṃ pratolyā saha |

‘ I have not been able to find purato-bhadra in the *Kośas* to which I have access, but sarvato-bhadra is described as a kind of house (?) with four doors facing the four quarters (here refers to Ram

Raz's *Essay on Architecture of the Hindus*, 1834, p. 43; here a *village* called sarvato-bhadra is described not a *house* of the same name). From this I infer that a purato-bhadra was a building with only one door in front. '—Mr. Hira Lal.

But there does not seem to be much doubt that purato-bhadra and mukha-bhadra are identical and that they are an essential part of the ancient Hindu buildings, resembling more or less the front tabernacle.—(Kanker inscrip. of Bhanudeva, v. 7, *Ep. Ind.*, Vol. IX, pp. 127, 125, and note 4.)

PURI(-Ī)—A temple, an adytum, a building, a town.

(The second Praśasti of Baijnath, v. 25, *Ep. Ind.*, Vol. I, pp. 117, 114; *see also* no. 32.)

PURUSHĀNJALI—The palm of a man. It refers to the depth of foundations upon which buildings of one to twelve storeys are stated to be erected.

Khānyed bhūtaṃ śreṣṭhaṃ purushāñjali-mātrakam |  
Jalāntaṃ vā śilāntaṃ vā . . . |—(*M.*, xviii, 6-7.)

The depth is stated here to reach water or stone under ground. Hence the expression seems to imply a depth measured by the height of a man with uplifted arms.

The following passage seems to be a parallel instance :

Chihnam api chārdha-purushe maṇḍuka-pāṇḍuro'tha mṛit-pītaḥ |

Puṭa-bhedakaś cha tasmin pāshāṇo bhavati toyam adhaḥ ||

Commentary : purusha-śabdenordhṅva-bāhuḥ purusho jñeyaḥ, sa cha vīmśat-adhikam aṅgula-śataṃ bhavati—by the word 'purusha' is to be understood the man with uplifted arms, that is, 120 aṅgulas (or 5 cubits).—(*Bṛihat-Samhitā*, LIV, 7, *J.R.A.S.*, N. S., Vol. VI, p. 301' note 1.)

PUSHKARA—A blue lotus, a part, a portion, the forepart of the nose (*M.*, LXV, 84), water, a cage, a type of building, a class of buildings (*Kāṃikāgama*, XLV, 61, 63; *see* under MĀLIKĀ).

PUSHKARINĪ (*see* TAḌĀGA and VĀPI)—A tank, a lotus-pool.

Datā-putreṇa thāi Noreṇa pukaraṇi karavīta savrasapaṇa puyae |  
'By the son of Dati, the Thera Nora, a tank was caused to be made for the worship of all snakes.'—(New Kharoshti inscrip. from Swat, *Ind. Ant.*, Vol. xxv, p. 141, and Vol. xxxvii, p. 66.)

PUSHKALA—A class of storeyed buildings, a tree, a type of pent-roof.

A class of the two-storeyed buildings (*M.*, xx, 94, 42-43; see under PRĀSĀDA).

A tree (*M.*, xv, 354, etc.).

A kind of pent-roof (*M.*, xviii, 188).

**PUSHPAKA**—A flower, the car of Kubera, a bracelet, a type of pavilion, a class of buildings.

A pavilion with sixty-four pillars (*Matsya-Purāṇa*, Chap. cclxx, v. 7; see under MAṆḌAPA).

A class of buildings, rectangular in plan and named (1) Ba(va) ḷabhi (2) Gṛīharāja, (3) Śalāgṛīha or Śālāmandira, (4) Viśāla, (5) Sama, (6) Brahma-mandira or Brahma-bhuvana, (7) Prabhava, (8) Śivikā, and (9) Veśma :

(1) *Agni-Purāṇa* (Chap. civ, vv. 11, 16-17; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 2-22, 26-27; see under PRĀSĀDA).

**PUSHPA-PAṬṬA**—A flower plate, a turban, a head-gear, a tiara, a diadem.

(*M.*, lxix, 16; see details under BHŪSHAṆA.)

**PUSHPA-PUSHKALA**—A class of bases.

(*M.*, xiv, 97-112; see the lists of mouldings under ADIHSHTHĀNA.)

**PUSHPA-BANDHA**—A type of window of flower-band design.

(*M.*, xxxiii, 584; see under VĀTĀYANA.)

**PUSHPA-BANDHANA-MANḌAPA**—A detached building where flowers are garlanded for the worship of the deity.

Pushpa-danta-pade chaiva pushpa-bandhana-maṇḍapam |

(*M.*, xxxii, 42.)

**PUSHPA-BODHAKA**—A type of capital.

(*M.*, xv, 155-168; see under STAMBHA.)

**PUSHPA-BHADRA**—A pavilion with sixty-two pillars.

(*Matsya-Purāṇa*, Chap. cclxx, v. 7; see MAṆḌAPA.)

**PUSHPA-RATHA**—A chariot.

(Abulala-perumal inscrip. of Champa, lines 3-4, *Ep. Ind.*, Vol. III, p. 71.)

**PUSHPA-VĀṬIKĀ** (see VĀṬIKĀ)—A garden, a bower, an arbour.

Uttare saralais tālaiḥ śubhā syāt pushpa-vāṭikā |

(*Matsya-Purāṇa*, Chap. cclxx, v. 29.)



**PUMLIṄGA** (*see* Saṁchita)—A class of buildings with the six main component parts (*see* under ŚHAḌ-VARGA) and with terraces, a masculine type of building, a division of the architectural and sculptural objects as distinguished from the feminine (strīliṅga) and neuter (napuṁsaka) types.

Alinda-sahitaṁ shaḍ-varga-sahitaṁ cha yad arpitam ।

Saṁchitaṁ proktaṁ puṁliṅgaṁ tad ghaṇi-kṛitaṁ ॥

Devānām asurāṇām cha siddha-vidyādhareshv-api ।

Raksha-gandharva-yakshāṇām praśastānām cha jauminām  
(bhogyam) ॥

(*Kāṁikāgama*, XLV, 8, 9.)

*See* the *Mānasāra* and the *Āgamas* under PRĀSĀDA, and compare STRĪ-LIṄGA and NAPUMSAKA.

**PŪRAṆA-KAMBA**—A vase, a moulding.

The panel or flat part of the back wall of each recess between the projecting tower-like compartments, is ornamented by a vase or some very florid object called pūraṇa-kambam.'

(Gaṅgai-Koṅḍo Puram Temple, *Ind. Ant.*,

Vol. IX, p. 118, c. 2, para 4.)

**PŪRTA**—A well, a pond, a step-well.

(1) Pūrtam vāpi kūpa-taḍākādikam —(the word) pūrta implies the step-well, well, and pond, etc.

(2) Vāpi-kūpa-taḍākādi-devatāyatanāni cha ।

Anna-pradānārāmāḥ pūrtam ity-abhidhiyate ॥

The step-well, well, pond, and the temple (and) the pleasure-house (alm-house, hotel) where food is given (gratis)—these are called the 'pūrta.'

(3) Vāpi-kūpa-taḍākādi-pūrtam āyatanāni cha ।

Svarga-sṁhitiṁ sadā kuryāt tadā tat pūrta-sajñitam ।

The step well, well, pond and temples are pūrta. It always ensures the residence in heaven (for the doer). it is for this reason designated as pūrta.

(Quotations from the Commentary, Kāśyapa,  
on the *Bṛihat-Saṁhitā*, LVI, 2 ; *J. R. A. S.*,  
N. S., Vol. VI, pp. 316-37, note 1.)

(4) Vāpi-kūpa-taḍākādi-devatāyatanāni cha ।

Anna-pradānārāmāḥ pūrtam āryāḥ prachakshate ॥

(*Ep. Ind.*, Vol. IV, p. 318, note 3.)

**PRISHṬHA-SŪTRA** —The plumb-line drawn by the back-bone.

(*M.*, LXVII, 80 ; *see* under PRALAMBA.)

PECHAKA—An owl, the tip or root of an elephant's tail, a couch, a bed, a shelter on a street, a site plan of four squares.

(*M.* vii, 3.)

In connexion with streets in a village :

Pechakaṁ vātha piṭhaṁ vā rathyā yuktaṁ tu vinyaset |

(*M.*, ix, 423, etc.)

PAIŚĀCHA (*see* PADA-VINYĀSA)—A site plan of four squares.

(*M.* vii, 3.)

POTA(-I)KĀ (POTTĪKĀ)—A part of a column, the site of a house.

Tat-samotsedhaṁ potikālanḥṛiti-kriyā |—(*Kāṁikāgama*, liv, 11.)

Potikāntāvalambaṁ vā tulāntaritam antaraṁ |—(*Ibid.*, 23.)

Pottikā (*ibid.*, lv, 69 ; *see* under MAKARA-TORAṆA).

A part of the bottom of a column.—(*Suprabhedāgama*, xxxi, 60 ; *see* under STAMBHA.)

POTRA—A moulding, an architectural object resembling the snout of a hog or a ploughshare.

In connexion with joinery :

Karkaṭāṅghrivat kṛitvā potra-nāsāṅghriṁ veśayet |

(*M.*, xvii, 143.)

PAUSHTĪKA (*see* UTSEDIHA)—A height which is  $1\frac{1}{2}$  of the breadth, a class of buildings.

*See* *Mānasāra* (xxxv, 22-26) and compare *Kāṁikāgama* (L, 24, 28), under ADBHUTA.

A class of the two-storeyed buildings (*M.*, xx, 93, 19-25 ; *see* under PRĀSĀDA).

PRAKOSHṬHA(KA)—The forearm, a hall, a room near the gate, of a palace, a court, a quadrangle, a part of the door-frame.

Ekāṁśaṁ madhya-bhadraṁ tu madhye yuktyā prakoshṭhakam |

(*M.*, xxvi, 108.)

The forearm :

Prakoshṭhaṁ shoḍaśāṁśaṁ syāt talam asṭhāṁśam āyatam |

(*M.*, lvii, 26, etc.)

PRACHCHHĀDANA—A covering, a canopy, the roof, an entablature.

A synonym of the entablature (*M.*, xvi, 18 ; *see* under PRĀSTARA).

In connexion with the three-storeyed buildings :

Prachchhādanopari stambhaṁ karṇa-harmyādi-maṇḍitam |

(*M.*, xxi, 9.)

## The roof :

Prastarasyopari-deśe karṇa-harmyādi-maṇḍitam |

Yuktyā prachchhādanāṃ kuryāt sudheshṭakādi-gulodakaiḥ |

(*M.*, xxxi, 69, 72.)

Pādaṃ vāyate taulīm kuryād yuktyā vichakṣaṇaḥ |

Tad-ūrdhve jayantikaṃ kuryāt tat-tat-prachchhādanānvitam |

(*M.*, xxxiii, 373-374.)

Prachchhādanāṅkaṇaṃ kuryān na prachchhādanāṃ eva cha |

(*M.*, xxxv, 295.)

Prachchhādanāṃ yathā-harmye dvāraṃ kuryāt tathaiśake |

(*M.*, xxxviii, 7.)

Prastarochcham iti proktaṃ prachchhādanam ihochyate |

Prāsādādini(-nām) sarvешhām prachchhādanādi-lakṣhaṇam |

Etat prachchhādanāṃ gehe proktaṃ mama munīśvaraḥ |

Anyat-vāstūni(-nām) sarvешhām prachchhādanam ihochyate |

(*M.*, xvi, 120-121, 143-144 ; the proposed description, *ibid.*, 121-142, 145-168, 170-204.)

## The materials of which they are constructed :

Kevalam chesṭakā-harmye dāru-prachchhādanānvitam |

Śilā-harmye śilā-taulīm kuryāt tat tad viśeshataḥ |

From this passage especially, it appears that the term 'prachchhādana' indicates the roof of a building.—(*Ibid.*, 133-134.)

PRANĀLA(KA)—The drip or channel-like part of the pedestal of the liṅga (phallus), a gutter, a canal, a patter, a bracket.

(1) Vāri-nirgamanārthaṃ tu tatra kāryaḥ praṇālakāḥ |

Therein (in the pedestal) should be made the praṇāla (gutter) as an outlet for water.

(*Matsya-Purāṇa*, Chap. cclxii, v. 6.)

Ardhāṅgula-bhruvo-rāji praṇāla-sadṛśī samā |

(*Ibid.*, Chap. cclviii, v. 37.)

(2) A square or round platter or bracket to which a spout is attached for ornamental purposes :

Aiśānyāṃ praṇālaṃ syāt pūrvasyām vā prakīrtitā ||

(*Kāmikāgama*, LV, 82.)

See *Mānasāra*, LI. 298, etc.

PRANĀLA(-LIKĀ,-LI)—A canal, a spout, a conduit, a water-course, a drain.

(1) Pituḥ puṇyābhivṛddhaye kīrtitā sat-praṇāliyam . . . |

'This conduit has been built . . . for the increase of his father's spiritual merit.'—(*Inscrip. from Nepal*, no. 8, Vibhuvanman's inscrip., line 2 f., *Ind. Ant.*, Vol. ix, p. 171, c. 2.)

(2) Kūgrāme praṇālikāyās cha khaṇḍa-sphuṭita-samādhānārtham—  
'for repairing the spout of the water-course in Kūgrāma.'—(*Ibid.*, no. 11,  
line 15, p. 174.)

**PRATIKA(-Ī)**—A moulding of crescent shape, the frieze ; for its synonyms, see *M.*, xvi, 42-44. It is shaped like a petal in two parts (*M.*, xvi, 45).

(1) A moulding of the base (*M.*, xiv, 39, 138, 148, etc.; see the lists of mouldings under **ADHISHṬHĀNA**).

A moulding of the column (*M.*, xv, 217 ; xxxiii, 225, etc.).

(2) Pratiṁ niveśayet tasya tri-tri-bhāgaika-bhāgataḥ ॥

Anyayoś chārdha-chandrābhā prati kāryā dvijottamāḥ ॥

(*Kāmikāgama*, liv, 44, 46.)

**PRATI-KRAMA**—A class of bases comprising four types which differ from one another in height and in the addition or omission of some mouldings.

(*M.*, xiv, 44-64 ; see under **ADHISHṬHĀNA**.)

Vedikeyaṁ tu sāmānyā kuṭṭimānām prakīrtitā ।

Pratikramasya chotsedhe chatur-vimśati vibhājite ॥

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, ix, 19.)

Pratikramaṁ viśeṣeṇa kartavyaṁ pāda-bandhavat ॥

(*Suprabhedāgama*, xxxi, 26 ; see the details under **PĀDA-BANDHA**.)

**PRATI-BANDHA**—A moulding of the base.

(*M.*, xiv, 324 ; see the lists of mouldings under **ADHISHṬHĀNA**.)

**PRATI-BHADRA**—One of the three classes of the pedestals, the other two being Mañcha-bhadra and Vedi-bhadra : it has four types differing from one another in height and in the addition or omission of some mouldings.

(*M.*, xiii, 53-89 ; see the lists of mouldings under **UPAṬṬHA**.)

**PRATIMA**—A moulding, an architectural object.

In connexion with foundations :

Brahma-garbham iti proktaṁ pratimaṁ tat sva-rūpakam ।

Evam tu pratimaṁ proktaṁ etad garbhopari nyaset ।

(*M.*, xii, 149, 166.)

A moulding of the base (*M.*, xiv, 61, 137, 279 ; see the lists of mouldings under **ADHISHṬHĀNA**).

PRATIMĀ—An image, an idol, a bust, a statue.

(1) *Mānasāra*, Chap. LXIV (named Pratimā) :

Description of the images of the sixteen attendant deities of the Vishṇu temple (lines 1-92).

Cf. Pratimāṃ lohajaṃ choktaṃ tathā ratnaṃ tu vinyaset |

(*M.*, LXX, 100.)

Pratimādihikāra (*M.*, LXVII, colophon).

(2) An image or idol (*Bṛihat-Saṃhitā*, LVI, 16. *J.R.A.S.*, N. S., Vol. IV, p. 318).

(3) Eka-hastā dvi-hastā vā tri-hastā vā pramāṇataḥ |

Tathā sarvā tri-hastā cha savituh pratimā śubhā ||

(*Bhaviṣya-Purāṇa*, Chap. CXXII, v. 1.)

(4) Athātaḥ saṃpravakṣyāmi sakalānāṃ tu lakṣaṇam ||

Sarvāvayava-dṛṣyatvāt pratimā tv-iti chochyate ||

Īśvarādi-chatur-mūrtiḥ paṭhyate sakalaṃ tv-iti ||

(*Suprabhedāgama*, XXXIV, 1-2.)

(5) Aṅgushṭha-parvād ārabhya vitastir-yāvad eva tu |

Gṛiheshu pratimā kāryā nādhikā śasyate budhaiḥ ||

Āshoḍaśā tu prāsāde karttavyā nādhikā tataḥ |

Madhyottama-kanishṭhā tu kāryā vittānusārataḥ ||

Dvārochchhrāyasya yan-mānam aṣṭadhā tat tu kārayet |

Bhāgam ekaṃ tatas tyaktvā pariśiṣṭaṃ tu yad bhavet ||

Bhāga-dvayena pratimā tri-bhāgikṛitya tat punaḥ |

Pīṭhikā bhāgataḥ kāryā nāti nīchā nachochchhritā ||

(*Matsya-Purāṇa*, Chap. CCLVIII, vv. 22-25.)

(6) Vinirmmitā rājate Chaṃkirājena Supārśva-pratimā uttamā—' the excellent image of Supārśva made by Chaṃkirāja adorns there.'—(Honwad inscrip. of Somesvara I, line 32, *Ind. Ant.*, Vol. XIX, p. 273.)

(7) ' An image (pratimā) may be very lofty and yet have no beauty, or it may be lofty and of real beauty, but have no dignity; but height, true beauty and exceeding dignity being all united in him, how highly is he worthy of worship in the world, Gommaṭeśvara, the very form of Jina himself. Should Maya address himself to drawing a likeness, the chief of Nāka-loka (Indra) to look on it or the Lord of Serpents (Ādiśeṣha) to praise it, it is unequal; this being so, who else are able to draw the likeness, to look fully upon or praise the unequalled form of the southern Kukkuṭeśa with its wondrous beauty.'—(*Ep. Carnat.*, Vol. II, Vindhyagiri inscrip., no. 85; *Transl.*, p. 154, line 13 f.; *Roman Text*, p. 67 f.)

(8) ' In the presence of these gods, setting up the stone images (śīlā-pratimā) of the crowned queen Lakshmilāsa, the lawful queen Kṛiṣṇavilāsa, and

the lawful queen Rāma-vilāsa, together with my own.'—(*Ep. Carnat.*, Vol. iv, Chāmarajnarag Taluq, no. 86 ; Transl., p. 11, para. 3 ; Roman Text, p. 18, para. 1, last three lines.)

(9) Vichitiye Jīna-dāsiya pratima Bhagavata-pitāmahasa pratima pratish-thāpita 1—(Mathura Insc. no. 16, line 2 ; Bitha Insc. no. C, lines 1-3 ; Cunningham, *Arch. Surv. Reports*, Vol. III, pp. 34, 48.)

(10) ' In the highly celebrated Śomanātha-pura he made a great temple setting up therein according to all the directions of the *Āgama* the various incarnations of Viṣṇu,—and shone with the fame he had acquired, Soma-chamupati, the Gāyi-govaḷa. Under the profound name of Prasanna-chenna he set Keśava on the right-hand side, and the source of world's pleasure, his form Gopāla, the lord who fills the mind with joy, Janārḍha, —these three forms, united among themselves, were the chief in the Viṣṇu temple in that pura. A cause of all manner of festivity were all the various forms around the enclosure, as they were all exhibited in different ways : the Matsya and others, all the ten incarnations, Keśava and others, Saṅkarshaṇa and others, twelve in name, Nārāyaṇa and others to the number of thirty-four, including eighteen, Kṛishṇa and others : Gaṇapa, Bhairava, Bhāskara, Viṣhvaksena, Durggi, and such gods numbering seventy-three adorned the Viṣṇu temple in the middle of pura. And in the south-east of the pura Soma-daṇḍādhipa set up Bijjaleśvara, Perggaḍeśvara, Revaleśvara, and Bayiraleśvara, with Somanātha Śiva-līṅga in the middle, . . . And he set up Bhava named Nṛisinhēśvara, Yoga-Nārāyaṇa and Lakshmī-Nṛisinhā in the middle of the Kāveri at Somanāthapura.—(*Ep. Carnat.*, Vol. xi, Dāvanagere Taluq, no. 36 ; Transl., p. 46, para. 3, line 7 f. ; Roman Text, pp. 76, 77).

**PRATIMĀ-MANḌAPA**—A detached building used as a temple, a pavilion.

(*M.*, xxxiv, 55.)

**PRATI-MUKHA**—A moulding of the base.

(*M.*, xiv, 102 ; see the lists of mouldings under ADHISHṬHĀNA.)

**PRATI-PAṬṬA** (see PAṬṬA)—A moulding, a band, a plate, a slab, a tablet.

(*Vāstu-vidyā*, ix, 23-24 ; see under PAṬṬA.)

**PRATI-RŪPA**—A moulding of the entablature.

(*M.*, xvi, 45 ; see the lists of mouldings under PRĀSTARA.)

**PRATI-VAKTRA**—A moulding of the base.

(*M.*, xiv, 118 ; see the lists of mouldings under ADHISHṬHĀNA.)

**PRATI-VĀJANA**—A concave moulding resembling the cavetto.

See Fletcher (*Hist. Arch.*, p. 101).

It is 'the same thing in the pedestal to answer to the vājana : its form, though generally rectangular, is sometimes, when placed in cornices, found to be externally a little more inclined to one side than to the other, and in this situation it resembles the cavetto.'—(Rām Rāz, *Ess. Arch. Hind.*, p. 25.)

Āliṅgāntaram chordhve prativājanam uchyate ।—(*M.* XLV, 111.)

A moulding of the pedestal (*M.*, XIII, 58, 93, 111, etc. : see the lists of mouldings under UPAPĪTHA.)

A moulding of the base (*M.*, XIV, 39, etc. ; see the lists of mouldings under ADHISĪTHĀNA.)

**PRATIŚRAYA**—Help, a shelter house for travellers, a dwelling house, a residence, a sacrificial hall, an assembly.

(1) Satra-prapā-pra(ti)śraya-vṛishotsargga-vāpī-kūpa-taḍarāma-devālayādi-karaṇopakaraṇārtham iha—'for the purpose of (supplying) requisite materials for preparing alms-house (feeding establishment), a place for distributing water gratis to travellers, a shelter-house for travellers, a vṛishotsargga (see below, *Ind. Ant.*, Vol. XII, p. 142), reservoirs, wells, tanks, orchards, temples, etc.'—(Cambay Plates of Govinda IV, line 58, *Ep. Ind.*, Vol. VII, pp. 41, 46, note 8.)

(2) Chatuś-śālāvasadha-pratiśraya-pradena ārāma-taḍāga-udapāna-kareṇa—'has given the shelter of quadrangular rest-houses, has made wells, tanks, and gardens.'—(Nasik Cave inscrip. no. 10, line 2, *Ep. Ind.*, Vol. VIII, pp. 78, 79.)

'But pratiśraya, as I have stated in a note (Nāsik inscription, the International Congress of the Orientalists held in London in 1874) is what is in these days called an anna-sattra, i.e. a house where travellers put up and are fed without charge.'—Dr. Bhankarkar, and compares :

(3) *Hemādri* (p. 152) : Pratiśrayaḥ pravāsinām āśrayaḥ, i.e., a shelter house for travellers.

(4) *Vahni-Purāna* (p. 763, quoted also by Dr. Hoernle) :

Pratiśrayam suvistīrṇam sad-annam sujalānvitam ।

Dīna-nātha-janārthāya kārayitvā gṛīham śubham ।

Nivedayet pathisthebhyaḥ śubha-dvāram manoharam ॥

'Having caused to be constructed for poor and helpless persons a pratiśraya (in the shape of) a good house, very commodious (wide), having food and plentiful water, provided with a good door, and charming, he should dedicate it to travellers.'—(*Ind. Ant.*, Vol. XII, p. 142, c. 1-2.)

PRATISHṬHĀ—An establishment, a fixed abode.

(A.-V., VI, 32, 3, *Sāṅkh. Āraṇ.*, XII, 14.)

PRATI (*see* PRATI)—A moulding.

PRATOLI—A gate-way, sometimes provided with a flight of steps, a small turret, the main road of a town.

(1) Rathyā pratoli viśikhā syāch chayo vapram astriyām ।

(*Amarakōsha*, II, ii, 3.)

(2) Trīmśad-daṇḍāmtaraṁ cha dvayor aṭṭalakayor-madhye saharmya-dvi-talām dvy-ardhāyāmāṁ pratolīm kārayet ।

Aṭṭalaka-pratoli-madhye tri-dhānushkādhishṭhānaṁ sāpidhāna-chchhidra-phalaka-saṁhatam indra-kośam kārayet ।

Prākāram ubhayato maṇḍalakam adhyardha-daṇḍam kṛitvā pratolishat-tulāntaraṁ dvāraṁ niveśayet ।

(*Kauṭīliya-Artha-śāstra*, Chap. xxiv, paras. 8, 9, 15, pp. 52, 53.)

(3) *Mahābhārata* (Cock) :

XIV, 25, 21 : Tam cha śāla-chayam śrīmat sampratoli sugha-ṭṭitam ।

XII, 69, 55 : Parikhās chaiva kauravya pratolir nishkūṭāni cha ।

(4) *Rāmāyaṇa* (Cock) :

II, 80, 18 : Pratolīvara-śobhitāḥ . . . (niveśāḥ) ।

V, 3, 17 : (Laṅkā) . . . pāṇḍurābhiḥ pratolībhīr uchchābhīr abhisamvṛitām ।

VI, 75, 6 : Gopurāṭṭa-pratolishu charyāsu vividhāsu cha ।

(5) *See* 'The Sanskrit Pratoli and its new Indian derivatives.'—(*J.R.A.S.*, Vol. XIX, July, 1906.)

(6) Kṛitvā . . . ābīhrāmāṁ muni-vasatīm . . . svargga-sopānarūpām kaubera-chchhanda-bimbām sphaṭika-maṇḍalā-bhāsa-gaurām pratolīm ।

'Having made a gateway, charming (and) . . . the abode of Saints, (and) having the form of a staircase leading to heaven (and) resembling a (pearl-)necklace of the kind called Kauberachchanda (and) white with the radiance of pieces of crystalline gems.'

'That the word (pratoli) has the meaning in the present inscription of a gateway with a flight of steps seems to be shown by the comparison of the pratoli with a svarga-sopāna or flight of steps, or ladder, leading to heaven, and by its being described as white with the radiance of pieces of crystalline gems (in the stones of which it was constructed).'  
—(Bilsad stone pillar inscrip. of Kumaragupta, line 10, *C. I. I.*, Vol. III, F. G. I., no. 10, pp. 44, 45, 43, and note 1.)



- (7) Hammīra vīra kva sa tava mahimā nirdīśamti dhvajāgrair-divyā-kāra-pratolī-hṛidayami-bhuvo nirmitā Kilhaṇena |  
 Āstām tāvat pratolī tad-upaviraçhitam koṣṭhaka-dvam-dvam etat  
 proçhchair-ālāna-yugmaṁ Vijaya[vara]kareḥ śatruakṣmāś cha  
 sadma |

(Hansi stone inscrip. of Prithvirāja, V. S. 1224,  
 vv. 5, 6, *Ind. Ant.*, Vol. xli, pp. 19, 17.)

- (8) Asyām uttuṅga-śṛiṅga-sphuṭa-śaśi-kiraṇa-(svetābhāsa-sanātham-  
 ramyārāma) pratolī-vividha-jana-pada-śrī-vilāsābhirāmam |

' In this (city of Benares there was) a place, renowned on earth (bathed in the white light) of the bright rays of the moon (as they fell on its) lofty turrets; charming with the gracefulness of the wives of the various inhabitants of the (beautiful and extensive, *lit.* whose extent was charming) streets.'—(Benares inscrip. of Pantha, v. 2, *Ep. Ind.*, Vol. ix, pp. 60, 61.)

- (9) Deva-śrī-śaśi-bhūṣaṇasya kṛitinā devālayam kāritam yugmam  
 maṇḍapa-śobhitam cha purato-bhadram pratolyā saha |

' Caused to be built two temples of the god whose ornament is the moon (*viz.* Mahādeva), together with halls, a purato-bhadra with a gateway.'—(Kanker inscrip. of Bhanudeva, v. 7, *Ep. Ind.*, Vol. ix, pp. 127, 123, 125, note 3.)

PRATYANĠA—A minor limb, a moulding of the entablature.

(*Kāṁikāgama*, liv, 2; see under PRASTARA.)

PRATYŪHA (*see* ŪHA) —*Lit.* an obstacle, hence any architectural moulding or member separating two others, a supporting member, a moulding, an architectural object.

PRATHAMĀSANA—The throne for the preliminary coronation.

*Cf.* Prathamābhishheka-yogyam syāt prathamāsanam eva cha |

(*M.*, xlv, 2-3.)

PRADAKSHIṆA—A surrounding terrace or verandah, a circumambulating path round a temple, a circular road round a village or town.

- (1) Śikharārdhasya chārdhena vidheyā tu pradakṣiṇā |

Garbha-sūtra-dvayam chāgre-vistāro maṇḍalasya tu ||

(*Matya-Purāṇa*, Chap. cclxix, v. 4.)

- (2) Pradakṣiṇam bahiḥ kuryāt prāsādādishu vā na vā |

(*Agni-Purāṇa*, Chap. civ, v. 9.)

- (3) Śikharārdhasya chārdhena vidheyās tu pradakṣiṇāḥ |

(*Garuḍa-Purāṇa*, Chap. xlvii, v. 8.)

See *Motsya-Purāna* above : this line is identical, except that it is used in the plural number here.

(4) 'The procession-path round the cell—called Pradakṣhiṇa—as that round apse, remained for some centuries as a common but not a universal feature. The verandah disappeared. Round a windowless cell it was useless, and the pillared porches contained in themselves, all the elements of shelter or of the shadow that were required.'—(Fergusson : *Hist. of Ind. and East. Arch.*, p. 221.)

(5) 'In the pradakṣhiṇa or passage behind images, are other two gratings over shafts from the lower hall.'—(Ahmadabad Arch. Burgess : *Arch. Surv.* New Imp. Series, Vol. xxxiii, p. 87.)

PRADAKSHIṆA-SOPĀNA—A surrounding flight of steps.

(*Kauṭīliya-Artha-śāstra* ; see under SOPĀNA.)

PRAPATHA—A broad path, long journey by a broad road, high roads for travellers, rest-houses thereupon (*R.-V.*, x, 17, 4, 6 ; 63, 16 ; *Kath. Sam.*, xxxvii, 14 ; *Ait. Brā.*, vii, 15). A prince is landed for his prapathas (*R.-V.*, viii, 1, 30).

PRAPĀ (PRAPĀṄGA)—A shed on the roadside for accommodating travellers with water, a place where water is distributed, a cistern, a tank, a building.

(1) Kulluka (*M. W. Dict.*) : Pāniya-dāna-griha—a house where water is given (gratis).

(2) *Anarakōsha* (ii, 5, 7) : Āveśanaṁ śilpi-śālā prapā pāniya-śālikā ।

(3) A synonym of harṁya (edifice) (*M.*, ii, 7).

In connexion with the staircase :

Prapāṅge pramukhe bhadre sopānaṁ pūrva-pārśvayoḥ ।

(*M.*, xxx, 105.)

In connexion with maṇḍapas (pavilions) :

Bhakti-mānaṁ tathā bhitti-vistāraṁ chāpy-alindakam ।

Prapāṅga-maṇḍapākāraṁ pañcha-bhedarṁ kramochyate ।

(*M.*, xxxiv, 3-4 ; see also 15.)

Madhye prachchhādanam kuryāt prapāṅgam vādhikalpayet ।

Tasya madhye cha raṅge tu mauktikena prapāṅvitam ।

Maṇḍapāgre prapāṅgam syāt . . . ।

(*Ibid.*, 201, 218, 222 ; see also 224-225.)

Prapā is shed as an alternative for pavilion.

Prapāṅga is shed with open yards.—(*M.*, xxxiv, 567-568.)

Maṇḍapasya bahir-deśe prapāṁ paritas tu kārayet ।—(*Ibid.*, 290.)

In connexion with madhya-ranga (central quadrangle or courtyard) :  
 Devānām cha nṛipānām cha sthānakāsana-yogyakam |  
 Mukta-prapāṅga-mānain cha lakṣaṇam vakshyate'dhunā |  
 Yad-ukta-madhya-rāṅge tu chatus-ṭriṃśad vibhājite |  
 Ekaikam-bhāga-hīnam syāt prapā-vistāram ishya'e |  
 . . . prapā-tuṅgam śivāṃśam syāt |

(M., XLVII, 1-4, 9.)

In connexion with the pedestals of the images of the Triad :  
 Prapā cha toraṇam vāpi kalpa-vṛikṣam cha saṃyutam |

(M., LI, 87.)

(4) Prāg-varṃśayor anya-varṃśais cha nūlikera-dalādibliḥ |  
 Āchchhāditaḥ(-tā) prapā nāma prastaram chātra maṇḍapaḥ ||

(Kāṃikāgama, L, 88.)

(5) Prapāyās cha maṇḍapam—' hall for the supply of water.'

(Inscrip. of the Chandella Viravarman, v. 19,  
*Ep. Ind.*, Vol. 1, pp. 328, 330.)

(6) Vāpi-kūpa-taḍāga-kuṭṭima-maṭha-prāsāda-satrālayān |  
 Sauvarṇa-dhvaja-toraṇāpana-pura-grāma-prapā-maṇḍapān |  
 Vyadhāpayad ayaṃ Chaulukya-chūḍāmaṇiḥ |

Here 'Prapā' (shed) does not, evidently, mean a tank, which idea is expressed by the words vāpi, kūpa, and taḍāga.—(Sridhara's Devapattana Prasasti, v. 10, *Ep. Ind.*, Vol. II, p. 440.)

(7) See Raṅganāth inscrip. of Sundarapandya (v. 15, *Ep. Ind.*, Vol. III, pp. 13, 16.)

(8) Satra-prapā-praśraya-vṛishotsargga-vāpī-kūpa-taḍārāma-devāla-yādi-  
 karaṇopakaraṇārtham cha |

Prapā—(?) a place of distributing water gratis (D. R. Bhaṇḍarkar).—  
 (Cambay Plates of Govinda IV, line 58, *Ep. Ind.*, Vol. VII, pp. 41, 46.)

(9) Nadinām ubhato tīram sabhā prapā-kareṇa—' erected on both banks  
 shelters for meeting and such for gratuitous distributing of water.'—(Nasik  
 Cave inscrip. no. 10, line 2 f., *Ep. Ind.*, Vol. VIII, pp. 78, 79.)

(10) Aneka-devatāyatana-sabhā-prapārāmāvasatha-vihāra-kārayita—  
 ' who caused to be built many temples of the gods, halls, drinking-foun-  
 tains, gardens, rest-houses, and (Buddhist) monasteries.'—(Palitana Plates of  
 Simhaditya, line 12, *Ep. Ind.*, Vol. XI, pp. 18, 19, note 3.)

(11) Dakṣiṇa-diśābhāge kārapitā vāpī tathā prapeyam cha—' in the  
 southern part there has been made an irrigation well also a watering-trough.'

Tathā prapā-kshetraṃ dvitīyaṃ tathā grāme uttara-diśāyām—' in the  
 northern part of the village there is given a second field, for the watering  
 trough.'—(Grant of Bhimadeva II, Vikrama Samvat 1266, lines 26, 27, 31, 32,  
*Ind. Ant.*, Vol. XVIII, pp. 113, 115.)

(12) 'Āpāna cannot have here (Aśoka pillar-edict, vii, lines, 2-3) its usual meaning "tavern, liquor-shop." As professor Kern (*Der Buddhism*, Vol. II, p. 385) assumes, it must denote a watering station. Probably the huts on the roads are meant, where water is distributed to travellers and their beasts gratis or against payment. The usual Sanskrit name is *prapā*.' Dr. Bühler.—(*Ep. Ind.*, Vol. II, p. 274, i.)

PRABHAVĀ—A type of rectangular building.

(*Agni-Purāṇa*, Chap. civ, vv. 16-17; see under PRĀLĀDA.)

PRABHĀÑJANA—A type of chariot.

(*M.*, XLIII, 112; see under RATHA.)

PRABHĀ—A canopy, a city.

Śailaṁ śobhita-śata-kumbha-vilasat kumbhaṁ mahā-maṇḍapaṁ prākāraṁ paramālikā-vilasitaṁ muktāmayīṁ cha prapā(-bhā)ṁ ।

'A great mahā-maṇḍapa of stone, resplendent with pitchers (? domes) of shining gold, a surrounding wall, adorned with excellent buildings, and a canopy of pearls.' Dr. Hultsch.—(Fourteen inscrip. at Tirukkovalur. no. K, Inscript. of Rajendradeva, lines 1-2, *Ep. Ind.*, Vol. VII, pp. 145-46.)

PRAMĀṆA—The measurement of breadth.

(*M.*, LV, 3-6; see under MĀNA.)

Pramāṇaṁ dirgham ity-uktaṁ mānonmāna-pramāṇataḥ ।

(*Suprabhedāgama*, xxxiv, 36.)

PRALAMBA—The plumb-lines or the lines drawn through an image in order to find out the perpendicular and the horizontal measurement of the different parts of the body.

(1) See *Bimbamāna* (vv. 73-91, 92-122, 123-138) under TĀLAMĀNA.

(2) *Mānasāra* (Chap. LXVII, named PRALAMBA) :

The instrument by means of which the plumb-lines are drawn is called *pralamba-phalakā*. This is a square plank of four, three, two or one *aṅgula* in thickness with the sides equal to three-fourths or half of the length of the image (line 6). Another plank of the same size is made and used as the stool on which the image is placed. The other plank (*pralamba-phalakā*) is fixed to the crown of the head of the image. The planks are kept level to each other. Some holes are made in the upper plank of the *pralamba-phalakā* wherefrom are suspended some strings at the other end of which are attached small balls made of iron or stone (lines 7-16). The number of holes and the strings suspended through the planks, by which the plumb-lines are determined, varies from five to eleven, according to the different postures and poses of the image. The five principal plumb-lines consist of one

drawn from the centre of the upper plank corresponding to the crown of the head, and four on the four sides of the body (line 19). Two other lines drawn adjoining the right and left sides of the face make the number seven (line 20). Another two lines drawn on the right and left sides of the back of the head make the number nine (line 22); and two lines drawn from the two armpits make the total of lines eleven (line 28).

The line drawn from the crown of the head (*śikhā-maṇi*) passes by the middle of the front, root and paṭṭa (band) of the diadem (*mauli*), middle of the forehead, eyebrows, nose, chin, neck, chest (*hṛdaya*), navel, sex organ, root of the thighs, half way between the knees, *nalakas* (ankles), heels, soles (feet) and two largest toes (lines 32-40). The perpendicular and horizontal distances between the different parts of the body are described in detail (lines 41-78, 99-139). The variations of these measurements are considered with regard to postures (lines 1-96), namely, erect (*sthānaka*), sitting (*āsana*) and recumbent (*śayana*), and poses (lines 98-140), called *ābhaṅga*, *sama-bhaṅga*, *ati-bhaṅga* and *tri-bhaṅga* (see under *BHAṅGA*).

These plumb-lines are stated to be drawn only for the purpose of measuring :

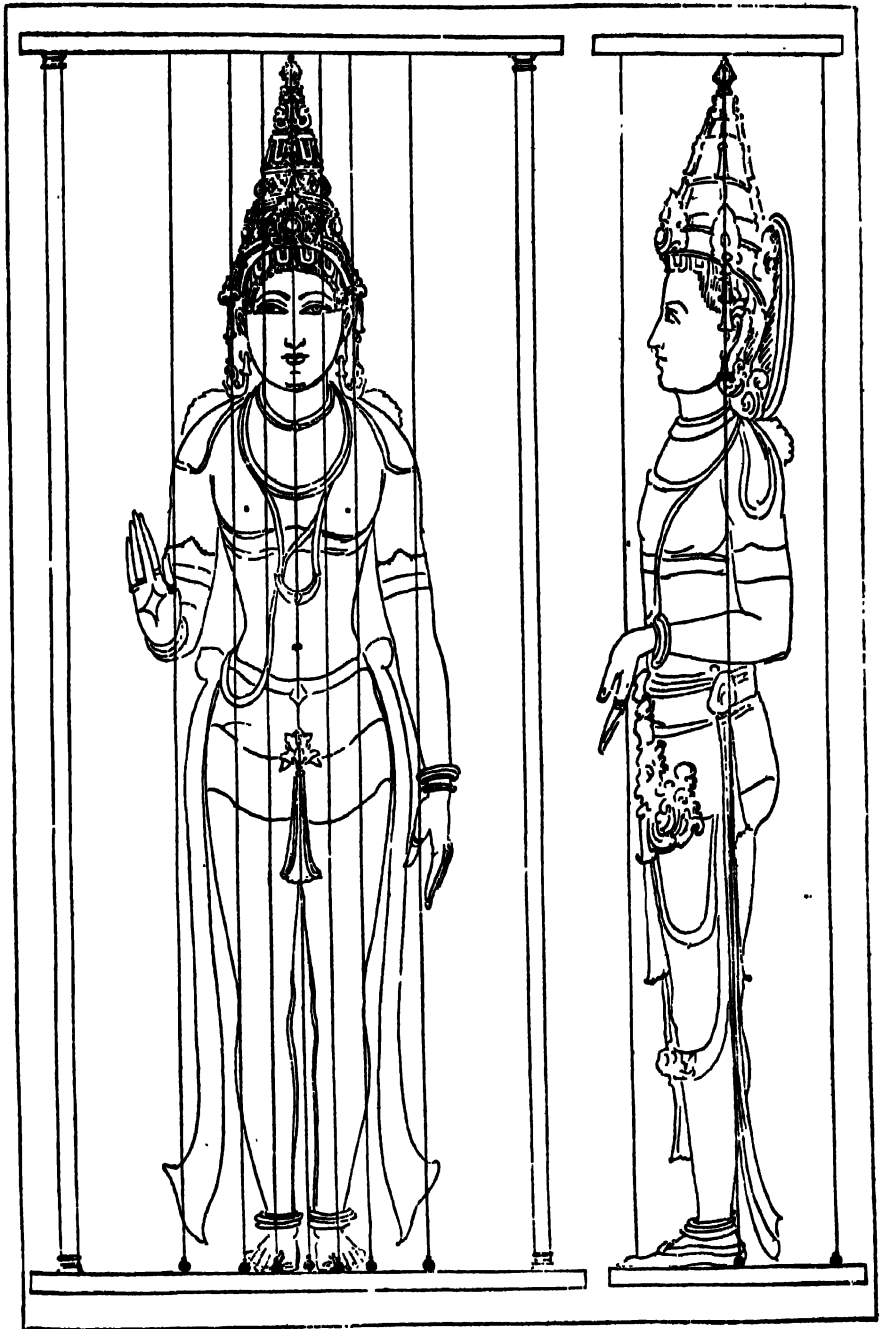
Evam tu kārya-sūtraṅ śyāt lambayet śilpavittamaḥ । (91)

The principles and mechanism of plumb-lines followed by the European architects are almost similar. The following quotations from Vitruvius and Gwilt would throw more light on the point :

(3) 'Agatharcus . . . was the first who contrived scenery, upon which he left a treatise. This led Democritus and Anaxagoras, who wrote thereon, to explain how the points of sight and distance ought to guide the lines, as in nature, to a centre, so that by means of pictorial deception, the real appearances of buildings appear on the scene, which, painted on a flat vertical surface, seem, nevertheless, to advance and recede.'—(*Vitruvius* Book VII, Introduction.)

'This (levelling) is performed either with the dioptra, the level (*libra acquaria*) or the chorobates. The latter instrument is, however, the best inasmuch as the dioptra and level are often found to be incorrect. The chorobates is a rod about 20 feet in length, having two legs at its extremities of equal length and dimensions, and fastened to the ends of the rod at right angles with it; between the rod the legs are cross-pieces fastened with tenons, whereon vertical lines are correctly marked, through which corresponding plumb-lines hang down from the rod. When the rod is set, these will coincide with the lines marked, and show that the instrument stands level.'—(*ibid.*, Book VIII, Chap. VI.)

(4) 'Plumb-rule, plumb-line, or plummet is an instrument used by masons, carpenters (sculptors), etc., to draw perpendiculars or verticals, for





ascertaining whether their work be upright, horizontal and so on. The instrument is little more than a piece of lead or plummet at the end of a string, sometimes descending along a wooden or metal ruler raised perpendicularly on another, and then it is called a level.'—(Gwilt, *Encycl.*, p. 1241.)

'The term, level, is used substantively to denote an instrument which shows the direction of a straight line parallel to the plane of the horizon. The plane of the sensible horizon is indicated in two ways : by the direction of the plummet or the plumb-line, to which it is perpendicular ; and by the surface of a fluid at rest. Accordingly, levels are formed either by means of the plumb-line, or by the agency of a fluid applied in some particular manner.'

'They all depend, however, upon the same principle, namely, the action of terrestrial gravity. The carpenter's level consists of a long rule, straight on its lower edge, about 10 or 12 feet in length, with an upright fixed to its upper edge, perpendicular to and in the middle of the length, having its sides in the same plane with those of the rule, and a straight line drawn on one of its sides perpendicular to the straight edge of the rule. This standing piece is generally mortised into the other, and finally braced on each side to secure it from accident, and has its upper end kerfed in three places, viz. through the perpendicular line, and on each side. The straight edge of the transverse piece has a hole, or notch, cut out on the other side equal on each side of the perpendicular line. A plummet is suspended by a string from the middle kerf, at the top of the standing piece, to vibrate freely in the hole or notch when hanging at full length. When the straight edge of the level is applied to two distant points, with its two sides placed vertically, if the plummet hangs freely, and the string coincides with the straight line on the standing piece, the two points are level. If not, suppose one of the points to be at the given height, the other must be lowered or raised, as the case may require, till the string is brought to a coincidence with the perpendicular line. By two points is meant two surfaces of contact, as two blocks of wood, or the upper edges of two distant beams.'

'The mason's level is formed of three pieces of wood, joined in the form of an isosceles triangle, having a plummet suspended from the vertex over a mark in the centre of the base.'—(Gwilt, *Encycl.*, p. 1217.)

**PRALAMBA-PHALAKĀ** (*see* under **PRALAMBA**)—The square plank through which the plumb-lines are drawn.

**PRALINAKA**—A class of buildings, a column with 32 rectangular sides, i.e., 32-sided shaft :

Dvā-trimśat tu madhye Pralinakah (*Bṛihat-Saṃhitā*, LIII, 28).

Pralinakam atah śṛiṇu . . . ॥



Śiṛshakaṁ chatur-asraṁ tu pārśvayoḥ koṣṭha-saṁyutaḥ |  
 Pañjaraṁ nāsikā-yuktaṁ sopānaṁ pārśvayos tataḥ ||  
 Pralīnaka itī proktā (-aḥ) . . . |—(*Suprabhedāgama*, xxxi, 46, 47, 48.)

**PRASTARA**—The entablature. It comprises the parts of an order above a column. The assemblage is divided into three parts in the European architecture, namely the architrave which rests immediately on the column, the frieze next over the architrave being the middle member, and the cornice which is the uppermost part. These three parts are again variously subdivided. For its synonyms, see *M.*, xvi, 18-20, 42-44. It is also used as a synonym for plinth (*M.*, xxxiii, 220-227).

(1) The entablature is stated to be half of the column :

Prastaraṁ pāda-dī(-ai)rghyasya chārdha-mānena kārayet |  
 Nyūnaṁ vāpi chādhikaṁ vāpi prastaraṁ kārayed budhaḥ ||  
 Prastarokta-pramānaṁ tu sarvaṁ kaṅṭhe vidhiyate ||

(*Kāmikāgama*, xxxv, 27, 28, 29.)

*Ibid.* Chap. LV (named Prastara-vidhi) :

Three essential parts of the prastara (entablature) :

Hīnādhikaṁ tu chāṅgānāṁ prastarasya dvijottamaḥ |  
 Pādāṅgānāṁ tathā kuryād galāṅge cha masūraka || (47)

The pāda (foot, pedestal, base), gala (neck, middle part), and masūraka (lintel) would, apparently, correspond to the architrave, frieze, and cornice.

The mouldings of the prastara (entablature) :

Uttaraṁ vājanaṁ chaiva muṣṭi-bandhaṁ mṛṅgālikam || (1)  
 Daṇḍikā valaya-kshudra-gopānāchchhādanaṁ cha ||  
 Ālīṅgāntarītā chaiva pratyaṅgaṁ vājanaṁ kramāt || (2)

Their comparative measurement :

Tryaṁśaikaṁśaraṁ-pañchaika-dvi-tri-bhāgaika-bhāgaiḥ |  
 Tri-bhāgenaika-bhāgena upary-upari yojatet || (3)

Three kinds of the prastara :

Etāni prastarāṅgāni tri-vidhaṁ chottaraṁ bhavet |  
 Khaṇḍottaraṁ patra-bandhaṁ rūpottaram iha dvijāḥ || (4)

Their description (vv. 5-6 ; see under those terms).

Further classification under SVASTIKA, VARDHAMĀNA, NANDYĀVARTA and SARVATOBHADRA (vv. 7-8).

The other details of the prastara (vv. 9-46).

*Ibid.*, LV, 204 (synonyms) :

Prastaraṁ chaiva gopānaṁ kapotaṁ mañcham eva cha |  
 Nivram ity-evam ākhyātaṁ prastarasya dvijottamaḥ |

Prastara (entablature) compared with base, pillar, tower (karṇa), finial or dome (śekhara) :

Pādāyāmam adhiśhṭhānaṁ dvi-guṇaṁ sarva-saṁmatam |  
 Pādārdhaṁ prastaraṁ proktaṁ karṇaṁ prastaravat samam ||  
 Prastara-dvi-guṇāyāmaṁ śekharaṁ hi tam uchyate ||  
 Prastarād ūrdhva-bhāge tu karṇa-kūṭa-samāyutam ||

(*Kāmikāgama.*, xxxi, 28-3<sup>o</sup>)

(2) Vedikāṁ prastara-samāṁ śaḍ-araśīkṛitya bhāgaśaḥ |

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, ix, 23.)

Sva-sva-yonyā gṛihādīnāṁ kartavyā dvāra-yonayaḥ |  
 Prastarottarayor madhyaṁ pañchadhā vibhajed budhaḥ ||

(*Ibid.*, xiii, 26 ; see also 28.)

(3) . . . prastaraṁ cha tataḥ śṛiṇu |

Prastarotsedha-mānaṁ tu pañcha-bhāga-vibhājitam ||  
 Tri-bhāgaṁ uttarotsedhaṁ pādonottara-vājanam |  
 Eka-bhāgaṁ tad-ūrdhve tu kartavyā padma-pañjikā ||  
 Gaja-śreṇīṁ mṛiga-śreṇīṁ prastarānteshu yojayet |  
 Evaṁ prastaram ākhyātaṁ talaṁ prati viśeshataḥ ||

(*Suprabhedāgama*, xxxi, 72, 73, 74 ;  
 see also vv. 68-71, under TORANA.)

(4) *Mānasāra* (Chap. xvi, named PRASTARA) :

The height of the entablature as compared with that of the base is of six kinds (line 4). The former may be equal to the latter, or less by  $\frac{1}{2}$ , or greater by  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , or twice (lines 2-3) ; or in cubit measurement, these six kinds of height of the entablature begin with 7 cubits and end in  $4\frac{1}{2}$  cubits, the decrement being by  $\frac{1}{2}$  cubit (lines 5-6). These six kinds of entablatures are respectively employed in the houses of the gods, the Brahmans, the king or Kshattriyas, the crown princes, the Vaiśyas, and the Śūdras (lines 8-9).

The height of the entablature as compared with that of the column may be half, three-fourths, equal, or greater by  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and  $\frac{3}{4}$  (lines 10-12). These six heights of entablature should discreetly be employed (line 13). Another set of six heights is also prescribed : the height of the pillar being divided into 8 parts, 7, 6, 5, 4, 3, 2, may be given to that of the entablature.

These entablatures are divided into eight or rather nine classes, the details of which are given below :

I	31 parts ( <i>ibid.</i> , lines 22-29) :			
(1)	Uttara (fillet)	..	..	3½
(2)	vājana (fillet)	..	..	1
(3)	valabhi(-bhi) (roof, capital)	..	..	4

(4) vājana (fillet)	..	..	..	1½
(5) uttara (fillet)	..	..	..	3
(6) vājana (fillet)	..	..	..	7
(7) kshudra-padma (small cyma)	..	..	..	1
(8) mahā-padma (large cyma)	..	..	..	3
(9) vājana (fillet)	..	..	..	1
(10) kapota (corona)	..	..	..	7
(11) āliṅga (fillet)	..	..	..	1
(12) antarita (fillet)	..	..	..	½
(13) prastara (ovolo)	..	..	..	2
(14) vājana (fillet)	..	..	..	1½

The projection of these mouldings are in most cases equal to them, but in some cases they may be  $\frac{2}{3}$ ,  $\frac{1}{3}$ , or  $\frac{1}{4}$  of them.

II. 31 parts (*ibid.*, lines 59-71) :

(1) Uttara (fillet)	..	..	..	3
(2) kampa (fillet)	..	..	..	1
(3) valabhi (roof, capital)	..	..	..	1
(4) abja (cyma)	..	..	..	9
(5) vājana (fillet)	..	..	..	½
(6) mushṭi-bandha (band)	..	..	..	2½ (2)
(7) vājana (fillet)	..	..	..	½
(8) mṛṇālikā (stalk)	..	..	..	2
(9) kandhara (dado)	..	..	..	1
(10) kshepaṇa (projection)	..	..	..	1
(11) padma (cyma)	..	..	..	1
(12) vājana (fillet)	..	..	..	1
(13) ādhāra (base)	..	..	..	1
(14) paṭṭa (band)	..	..	..	1
(15) vājana (fillet)	..	..	..	½
(16) mushṭi-bandha (band)	..	..	..	1½
(17) vājana (fillet)	..	..	..	1
(18) mahāvājana (large fillet)	..	..	..	2
(19) abja (cyma)	..	..	..	1

III. 36 parts (*ibid.*, lines 72-77) :

(1) Base, etc., should be as before ;				
(2) āliṅga (fillet)	..	..	..	2
(3) vājana (fillet)	..	..	..	1
(4) antarita (fillet)	..	..	..	3
(5) kampa (fillet)	..	..	..	1
(6) prati (-vājana) (cavetto)	..	..	..	2
(7) vājana (fillet)	..	..	..	1

IV. 30 parts (*ibid.*, lines 78-88) :

(1) Uttara (fillet)	..	..	..	3
(2) kampa (fillet)	..	..	..	1
(3) valabhī (roof, capital)	..	..	..	2
(4) vājana (fillet)	..	..	..	1
(5) kapota (corona)	..	..	..	5
(6) āliṅga (fillet)	..	..	..	1
(7) antarita (fillet)	..	..	..	2
(8) nimna (drip)	..	..	..	$\frac{1}{2}$
(9) prati-vājana (cavetto)	..	..	..	1 $\frac{1}{2}$
(10) kandhara (dado)	..	..	..	2
(11) vājana (fillet)	..	..	..	1
(12) grīha ( ? grīva, dado)	..	..	..	2
(13) vājana (fillet)	..	..	..	1
(14) kapota (corona)	..	..	..	4
(15) āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(16) antarita (fillet)	..	..	..	1
(17) nimna (drip)	..	..	..	$\frac{1}{2}$
(18) prastara (ovolo)	..	..	..	1

V. 30 parts (*ibid.*, lines 89-99) :

(1) Mūla (base) as before ;				
(2) gopāna (beam) as before ;				
(3) vājana (fillet)	..	..	..	2
(4) kulikāṅghri (main pillar) (this part is furnished with nāṭaka)	..	..	..	5
(5) nāṭaka (theatre, quadrangular part) as before ;				
(6) kapota (corona) as before ;				
(7) kshudra-nāśī (small nose or vestibule) as before ;				
the rest as before.				

This entablature is decorated all over with crocodiles and bees (makara and bharamara, 94-95).

VI. 26 parts (*ibid.*, lines 100-109) :

(1) Uttara (fillet)	..	..	..	3
(2) vājana (fillet)	..	..	..	1
(3) padma (cyma)	..	..	..	1
(4) vājana (fillet)	..	..	..	1
(5) musṭī-bandha (band)	..	..	..	2
(6) vājana (fillet)	..	..	..	1
(7) mṛṣṇālikā (stalk)	..	..	..	3
(8) vājana (fillet)	..	..	..	1
(9) paṭṭikā (band)	..	..	..	4

(10) vājana (fillet)	..	..	..	I
(11) kampa (fillet)	..	..	..	$\frac{1}{2}$
(12) pādma (cyma)	..	..	..	I
(13) vājana (fillet)	..	..	..	$\frac{1}{2}$
(14) kapota (corona)	..	..	..	4
(15) āliṅga (fillet)	..	..	..	$\frac{1}{2}$
(16) vājana (fillet)	..	..	..	$\frac{1}{2}$
(17) antarita (fillet)	..	..	..	I
(18) prati-vājana (cavetto)	..	..	..	I

VII. 26 parts (*ibid.*, lines 110-116) :

- (1) Nāṭaka (theatre, quadrangular part) as before ;
- (2) upper columns as before ;
- (3) lower columns as before.

Above these, all the members are same as before except that their projections are half or one-fourth of them, or their projections may be one, two, or three daṅḍas.

The images of Bhūtas (imps), Gaṇas (attendant demi-gods of Gaṇeśa), Yakskas (attendant demi-gods of Kubera), Vidyādharas (semi-divine beings), or of men are carved in the nāṭaka (crowning or capital) parts of temples. In the corresponding parts of the palaces, the images of Yakshas and Vidyādharas are carved ; in all other residential buildings, the human figures are made in the nāṭaka (crowning) parts. All the muṣṭi-bandhas (fishbands) are made straight with the columns. The rest should be as before.

VIII. 26 parts (*ibid.*, lines 117 f.) :

- (1) Kapota (corona) 8 more ; (2) nāṭaka (theatre, quadrangular part) 8 more ; the rest should be as before.

IX. 34 parts (*ibid.*, lines 117-119) :

- Nāṭaka (theatre, quadrangular part) 8 parts more, and the rest should be as before.

With these may be compared the details of the early European entablature :

The height of the entablatures of the different orders :

- (1) In the Tuscan order,  $\frac{1}{4}$  of  $7=1\frac{3}{4}$  diameters.
- (2) In the Doric order,  $\frac{1}{4}$  of  $8=2$  diameters.
- (3) In the Ionic order,  $\frac{1}{4}$  of  $9=2\frac{1}{4}$  diameters.
- (4) In the Corinthian order,  $\frac{1}{4}$  of  $10=2\frac{1}{2}$  diameters.
- (5) In the Composite order,  $\frac{1}{4}$  of  $11=2\frac{3}{4}$  diameters.

According to Vitruvius both to the Corinthian and the Composite orders ten parts are given.

Entablature is fourth part of the column. In general terms, its subdivisions of architrave, frieze, and cornice are obtained by dividing its height into ten equal parts, whereof three are given to architrave, three to frieze,

and four to cornice ; except in the Roman Doric order in which the whole height of the entablature is divided into eight parts of which two are given to the architrave, three to the frieze, and three to the cornice.'

' From these general proportions variations have been made by different masters, but not so great as to call for particular observation.'—(Gwilt, *Encycl. Arch.*, Art. 2542, 2543, 2549.)

Entablature		Height in parts of a module	Projection from the axis of column in parts of a module		
I. Tuscan (Gwilt, <i>Encycl.</i> , Art. 2555) :					
Cornice, 16 parts	Cymtinum and parts	(1) Quarter round	4	27½	
		(2) Asragal ..	1		
		(3) Fillet ..	½	23½	
		(4) Congé or cavetto	1	22½	
	Bed moulding	(5) Corona ..	5	22½	
		(6) Drip ..	1	21½	
		(7) Sinking from corona or hollow	½	19½	
		(8) Fillet ..	½	14	
		(9) Ogee ..	4	13½	
	Frieze, 14 parts		(10) Frieze ..	14	9½
	Architrave, 12 parts	Fillet	(11) Fillet or listel	2	11½
			(12) Congé or small cavetto	2	9½
		Fascia ..	(13) Fascia	8	9½

The height of the drip under the corona is taken on that member, and that of the hollow in the height of the fillet.

II. Doric (Gwilt, *Encycl.*, Art. 2564, 2562) :

Entablature		Height in parts of a module	Projection from the axis of column in parts of a module	
(1) Fillet of corona ..			34	
(2) Cavetto ..		3	31	
(3) Fillet ..		½	26	
(4) Cyma reversa ..		1½	30	
Cornice, 18 parts	(5) Corona ..		4	28½
	(6) Drip ..		½	27½
	(7) Fillet ..		½	25
	(8) Gutta under the corona		½	24½
	(9) Dentil ..		3	15
	(10) Fillet ..		½	13
	(11) Cyma reversa ..		2	12½
	(12) Capital of triglyph		2	11

	Entablature	Height in parts of a module	Projection from the axis of column in parts of a module
Frieze, 18 parts	{ (13) Triglyph ..	18	10½
	{ (14) Metope ..	18	10
Architrave, 10 parts	{ (15) Listel ..	2	11½
	{ (16) Capital of guttae ..	½	11
	{ (17) Guttae ..	1½	11
	{ (18) Fascia ..	10	10
<b>Mutular Doric :</b>			
Cornice, 18 parts	{ (1) Fillet of the corona ..	1	34
	{ (2) Cyma ..	3	31
	{ (3) Fillet ..	½	31
	{ (4) Cyma reversa ..	1	30½
	{ (5) Corona ..	3½	30
	{ (6) Cyma reversa ..	1	29½
	{ (7) Mutule ..	3	28½
	{ (8) Drip ..	½	28
	{ (9) Guttae of the mutule ..	½	26
	{ (10) Echinus or quater round ..	2	13½
	{ (11) Fillet ..	½	11½
	{ (12) Capital of triglyph ..	2	11
Frieze, 18 parts	{ (13) Triglyph ..	18	10½
	{ (14) Metope ..	18	10
Architrave, 12 parts	{ (15) Listel ..	2	12
	{ (16) Capital of the guttae ..	½	11½
	{ (17) Guttae ..	1½	11½
	{ (18) First fascia ..	6	10½
	{ (19) Second fascia ..	4	10
<b>Grecian Doric (Parthenon) (<i>ibid.</i>, Art. 2579) :</b>			
Cornices, 15·12 parts	{ (1) Fillet ..	0·60	22·10
	{ (2) Echinus ..	3·12	20·40
	{ (3) Fillet, with sunk cyma reversa ..	2·20	
	{ (4) Corona ..	4·88	18·98
	{ (5) Fillet ..	1·10	18·80
	{ (6) Capitals of mutules ..	1·10	
	{ (7) Mutules ..	0·32	18·66
	{ (8) Bead and capital of triglyph ..	2·00	11·46
Frieze, 14·88 parts	{ (9) Frieze (in metope) ..	15·12	
	{ (10) Triglyph ..	14·88	11·40

	Entablature	Height in parts of a module	Projection from the axis of column in parts of a module
Architrave, 17·10 parts	{ (11) Fillet .. ..	1·50	12·50
	{ (12) Cap of guttae .. ..	1·00	12·40
	{ (13) Guttae .. ..	0·20	
	{ (14) Architrave below guttae ..	14·40	11·20

III. Ionic (Gwilt, *Encycl.*, Art. 2573, 2581) :

	(1) Fillet of cyma .. ..	1½	46
	(2) Cyma recta .. ..	5	
	(3) Fillet .. ..	½	41
	(4) Cyma reversa .. ..	2	40½
	(5) Corona .. ..	6	38½
	(6) Fillet of the drip .. ..	1	29½
Cornice, 34 parts	{ (7) Ovolo .. ..	4	28½
	{ (8) Astragal .. ..	1	25
	{ (9) Fillet .. ..	½	24½
	{ (10) Dentel fillet .. ..	1½	21
	{ (11) Dentels .. ..	6	24
	{ (12) Fillet .. ..	1	20
	{ (13) Cyma reversa .. ..	4	19½
Frieze, 27 parts	(14) Frieze .. ..	27	15
	{ (15) Listel .. ..	1½	20
	{ (16) Cyma reversa .. ..	3	19½
	{ (17) First fascia .. ..	7½	17
	{ (18) Second fascia .. ..	6	16
	{ (19) Third fascia .. ..	4½	15
Architrave, 22½ parts	(20) Capital on the side .. ..	19	20
	{ (21) Capital on the coussinet or cushion .. ..	16	17½

Grecian Ionic (in the temple on the Ilyssus) :

	(1) Fillet .. ..	restored	restored
	(2) Cyma recta .. ..		"
Cornice, supposed height, 18·33 parts	{ (3) Fillet .. ..		"
	{ (4) Echinus .. ..	2·040	30·440
	{ (5) Corona .. ..	6·240	33·960
	{ (6) Drip .. ..	4·680	
	{ (7) Cyma reversa .. ..	2·700	20·520
	{ (8) Fillet .. ..	0·720	
	{ (9) Echinus .. ..	1·260	18·360



	Entablature		Height in parts of a module	Projection from the axis of column in parts of a module	
Frieze, 29·901 parts	(10) Frieze ..	..	29·901	17·400	
Architrave, 33·66 parts	{ (11) Fillet ..	..	1·920	30·520	
		(12) Echinus ..	..	2·520	20·100
		(13) Bead ..	..	1·200	17·880
		(14) Fascia ..	..	27·600	17·160
IV. Corinthian (Gwilt, <i>Encycl.</i> , Art. 2583) :					
Cornice, 38 parts	{ (1) Fillet of cornice ..	..	1	53	
		(2) Cyma recta ..	..	5	53
		(3) Fillet ..	..	$\frac{1}{2}$	48
		(4) Cyma reversa ..	..	$1\frac{1}{2}$	$45\frac{1}{2}$
		(5) Corona ..	..	5	46
		(6) Cyma reversa ..	..	$1\frac{1}{2}$	$45\frac{1}{2}$
		(7) Modillion ..	..	6	$44\frac{1}{2}$
		(8) Fillet (remainder of modil- lion band) ..	..	$\frac{1}{2}$	$28\frac{1}{2}$
		(9) Ovolo ..	..	4	28
		(10) Bead ..	..	1	25
		(11) Fillet ..	..	$\frac{1}{2}$	$24\frac{1}{2}$
		(12) Dentils ..	..	6	24
		(13) Fillet ..	..	$\frac{1}{2}$	20
		(14) Hollow or congé ..	..	3	$19\frac{1}{2}$
Frieze, 1 mod., $7\frac{1}{2}$ parts	(15) Frieze ..	..	..	15	
Architrave, 27 parts	{ (16) Fillet ..	..	1	20	
		(17) Cyma reversa ..	..	4	$19\frac{1}{2}$
		(18) Bead ..	..	1	17
		(19) First fascia ..	..	7	$16\frac{1}{2}$
		(20) Cyma reversa ..	..	2	$16\frac{1}{2}$
		(21) Second fascia ..	..	6	$15\frac{1}{2}$
		(22) Bead ..	..	1	$15\frac{1}{2}$
		(23) Third fascia ..	..	5	15
V. Composite (Gwilt, <i>Encycl.</i> , 2591) :					
Cornice, 36 parts	{ (1) Fillet of cornice ..	..	$1\frac{1}{2}$	51	
		(2) Cyma recta ..	..	5	51
		(3) Fillet ..	..	1	46

	Entablature	Height in parts of a module	Projection from the axis of column in parts of a module
Cornice, 36 parts	(4) Cyma reversa ..	2	45½
	(5) Bead ..	1	43½
	(6) Corona ..	5	43
	(7) Cyma under corona ..	1½	41
	(8) Fillet ..	1	33
	(9) Cyma reversa ..	4	33½
	(10) Fillet of the dentils ..	½	28
	(11) Dentils ..	7½	29
	(12) Fillet ..	1	23
	(13) Ovolo ..	5	22
	(14) Bead ..	1	17
	(15) Fillet ..	½	16½
Fricze, 27 parts	(16) Congé ..	¾	15
	(17) Upright face ..	17½	15
	(18) Apophyge ..	7	22
Architrave, 27 parts	(19) Fillet ..	1	22
	(20) Cavetto ..	2	20½
	(21) Ovolo ..	3	20
	(22) Bead ..	1	17½
	(23) First fascia ..	10	17
	(24) Cyma reversa ..	2	16½
	(25) Second fascia ..	8	15

From the details given above it would be clear that both the Indian and European entablatures have much similarity in their composition and relative proportion. In the words of Rām Rāz, 'the massiveness of the Indian entablature offers a striking contrast to the lightness of the Grecian; but the richness of the former may be said to be unrivalled.'—(*Ess. Arch. of Hind.*, p. 40, also see Plate XIX, figs. 1-4.)

PRASTIRYA—Same as PRASTARA or entablature.

(*M.*, xvi, 184, 186.)

PRAVEŚĀ—The front door, the gate, the entrance.

Praveśa-nirgama-sthāne dvārain api samanvitam †

(*M.*, x, 107; see also XXXIII, 536.)

PRĀKĀRA—A wall, an enclosure, a fence, a rampart, a surrounding wall elevated on a mound of earth. In the *Sāṅkhyāyana Śrautasūtra* (xvi, 18, 14, quoted below) it denotes a walled mound supporting a raised platform (prāsāda) for spectators. But in the *Mānasra*

it is used in a slightly different sense and implies the fourth of the five courts into which the compound of a house is divided.

(1) *Mānasāra* (Chap. xxxi, named Prākārā, 1-134) :

The uses of the prākāras :

They are built for bala (strength), parivāra (attendant deity), śobhā (beauty), and rakshaṇa (defence) :

Balārtham parivārtham śobhārtham rakshaṇārthakam ।

Pañcha-prākāra-harmyāṇām adhunā vakshyate kramāt ।

The whole compound of a house or temple is divided into five courts. The first one is called the antar-maṇḍala or the innermost court (line 11). The second is known as antar-nihāra and the third as madhyama-hārā (line 12). The fourth court is technically named prākāra (line 12). The fifth and last one is known as the mahā-maryādā or the extreme boundary where the large gate-houses (gopuras) are constructed (line 14). As the name of the chapter (Prākāra-lakshaṇa, description of Prākāra) indicates, the greater part of it describes only the fourth court (lines 15-102). Prākāras are also divided into the Jāti, Chhanda, Vikalpa (Ābhāsa) and Kāmya classes (lines 3-5). Under each class a number of buildings (śālās) are exhaustively described (lines 6-86).

A further classification (Saṁkīrṇa, etc.) is made with regard to materials of which these prākāra-buildings are made (line 103). The materials are same as in other cases, namely stone, brick and wood (line 102). The gopura or gate-house of the first court (antar-maṇḍala) is technically called dvāra-śobhā or beauty of the gate; and those of the second, third, fourth and fifth courts are called respectively dvāra-śāla, dvāra-prāsāda, dvāra-harmya, and mahā-gopura (*ibid.*, xxxiii, 9).

(2) *Suprabhedāgama* (Chap. xxxi, 115-128) :

Five courts or enclosure buildings :

Prākārāṇām paritam kuryāt prāsādasya pramāṇataḥ ।

Bhūmau vinyasya vistāram prāsādasya su-niśchitam ॥

Prāsādasya tu vistāram tasya daṇḍam ihochyate ।

Daṇḍāt tena kṛitam yatra tv-antarmala-samaiva hi ॥

Eka-daṇḍāntar-bhārā tu madhya-bhārā dvi-daṇḍataḥ ।

Chatur-daṇḍa-pramāṇena kṛitvā maryyādi-bhittikam ॥

Mahā-maryyādi-bhittih syāt sapta-daṇḍa-pramāṇataḥ ।

Prishṭhe chaivāgrato' py-ardham dvi-guṇam tri-guṇam tu vā ॥

Chatur-guṇam mukhāyāmam prākārāṇām viśeshataḥ ।

Kapotāntam samutsedham hasta-vistāra-bhittikam ॥

Kūṭa-śālā-yutam vāpi kūṭa-śālāntam eva cha ।

Prākāreṇa samāyuktam gopurasya vidhiyate ॥

Maṇḍale dvārake vātha dvāra-śālām tu bhārake ।  
 Prāsādam madhya-bhārāyām maryyādaū harmyam eva cha ॥  
 Gopuram tu mahā-madhye evam pañcha-vidhi smṛitam ।  
 Chatur-dikshu cha saṁyojyāḥ prakāraṇām pṛithak pṛithak ॥  
 Kechid vai mālikākārā kechid vai gopurākṛtiḥ ।

*Cf.* The measurement of the five gate-houses (gopuras) of the five prakāras:  
 Vistāram dvāra-śobhāyā dvi-tri-pañcha-karam bhavet ॥  
 Shaṭ-saptāshṭa-ṇava-karair dvāra-śālā prakīrtitā ।  
 Ekā-daśa-trayo-daśa-hastam (dvāra)-prāsāda-viśṛitam ॥  
 Chatur-daśa-pañcha-daśa-dvāra-harmyam iti smṛitam ।  
 Eka-viṁśa trayo-viṁśa dvāra-gopuram uchyate ॥

Their height as compared with length and breadth :

Vistāra-dvi-guṇāyām āyāma-dvi-guṇochchhrayam ।  
 Bhaumordhvottara-simāntam dvārasyo chchhraya-lakṣhaṇam ॥  
 Tad-ardham vistaram proktam(m) alaṅkāram vimānavat ।  
 Prakāra-bhittim āśritya kuryād āvṛita-maṇḍapam ॥  
 Tad-bāhye'bhyantare vāpi mālikā-maṇḍapam hi vā ।  
 Pañcha-prākāram evam syāt privarālayam śṛiṇu ॥

Then follows the description of the temples of the attendant deities (v. 129 f.). These buildings are built in the five prakāras (*see* under PARIVĀRĀLAYA).

(3) *Śākhya-yana-Śrauta-sūtra* (xvi, 18, 13, 14, *Bibliotheca Indica*, Vol. 1, p. 210) :

Saṁsthite madhyame'hany-āhavanīyam abhito dikshu prāsādān viminvanti ॥ (13)

Tān upariśṭāt saṁvyādhaiḥ prakāraiḥ pariḥnanti ॥ (14)

(4) *Matsya-Purāna* (Chap. CCLXIX, v. 24) :

Prāg-grīvaḥ pañcha-bhāgeṇa nishkāś(ś)as tasya chochyate ।  
 Kārayet sushiram tadvat prakārasya tri-bhāgataḥ ॥

(5) *Agni-Purāna* (Chap. XLII, 812) :

Tathā prakāra-vinyāse yajed dvā-triṁśad antagān ॥  
 Prāsādasya chaturthāśāiḥ prakārasyo chchhrayo bhavet ॥

*Ibid.*, Chap. CVI, 1-2 :

Nagarādika-vāstuṁ cha vakshyc rājyādi-vṛiddhaye ।  
 Yojana-yojanārdham vā tad-artham sthānam āśrayet ॥  
 Abhyarchya vāstu-nagaraṁ prakārādyam tu kārayet ॥

In this instance ' prakāra ' indicates the whole city wall.

(6) *Garuḍa-Purāna* (Chap. XLVI, 19) :

Prākāram tad-bahir dadyāt pañcha-hasta-pramāṇataḥ ।

(7) *Brahmāṇḍa-Purāṇa* (Part I, 2nd Anuśaṅga-pāda, Chap. vii, 103) :

Sotsedha-raṁdra-prākāraṁ sarvataḥ khātakāvṛitam ।

(8) *Kauṣīṭhya-Artha-śāstra* (Chap. xxiv, pp. 52, 53, 54) :

Vaprasyo pari prākāraṁ viśkambha-dvi-guṇotsedham aiśṭhakarṁ  
dvā-daśa-hastād ūrdhvam ojaṁ yugmaṁ vā āchatur-vimśati  
hastād iti kārayet ।

Antareshu dvi-hasta-viśkambhaṁ pārśve cha'ur-guṇāyāmam  
anuprākāram aśṭa-hastāyataṁ deva-pathaṁ kārayet ।

Prākāram ubhayato maṇḍalakam adhyardha-daṇḍaṁ kṛitvā prato-  
lishaṭ-lulāntaraṁ dvāraṁ niveśayet ।

Prākāra-samaṁ mukham avasthāpya tri-bhāga-godhā mukhaṁ  
gopuraṁ kārayet ।

Prākāra-madhye kṛitvā vāpīm puśhkarīṇīm . . .

(9) *Rāmāyaṇa* (Cock) :

VI. 3, 14 : Sauvarṇaś cha mahāns tasyāḥ prākāro dushpradhar-  
shaṇaḥ ।

Maṇi-vidruma-vaidūrya-muktā-virachitāntaraḥ ॥

VII. 5, 29 Dṛiḍha-prākāra-parikhāṁ . . . laṅkāṁ ।

V. 55, 32 Laṅkā aṣṭa-prākāra-toraṇā ।

V. 3, 6 (purīm) . . . śāta-kumbhena mahatā prākāreṇābhisaṁ-  
vṛitam ।

IV. 31, 27 V, 2. 16: Kāñchanenāvṛitāṁ prākāreṇa mahāpurīm ।

III. 48, 11 (Laṅkā-nāma purī śubhā) . . . prākāreṇa-parikshiptā  
pāṇḍureṇa ।

*See also* v, 3, 7, 33 ; v, 4, 2 ; v, 37, 39 ; v, 55, 32 ; vi, 3, 29 ; vi, 3, 32 ;  
vi, 24, 34 ; vi, 25, 24 ; vi, 25, 30 ; vi, 26, 12 ; vi, 38, 10, 11 ; vi, 31, 56, 98 ;  
vi, 42, 15, 21, 22, 45, 46 ; vi, 51, 8, 10 ; vi, 60, 15 ; vi, 65, 53 ; vi, 66, 1 ;  
vi, 67, 169 ; vii, 3, 27 ; vii, 5, 25 ; vii, 38, 37.

(10) *Mahābhārata* :

I. 207, 30 : Prākāreṇa cha saṁpannam . . . (pura-śreshṭham) ।

II. 80, 30 : Prākārāṭṭhalakeshu ।

III. 160, 38 f. : (Vaiśravaṇāvāsam) . . . prākāreṇa parikshiptam ।  
Sauvarṇena samantataḥ sarva-ratna-dyutimatā ।

III. 200, 90 ; 206, 7 : (Mithilāṁ) . . . harmya-prākāra-śobhanāṁ ।

*See also* iii, 284, 2 ; iv, 11, 1 ; v, 143, 23 ; vii, 33, 19 ; xii, 86, 6 ; xv, 5,  
16 ; xvi, 6, 24.

(11) ' This inscription (Ranganatha inscrip. of Sundarapandya) was  
discovered on the east wall of the *second* prākāra of the temple.'

‘ Inscripton on the north wall of the *fourth* prākāra of the Raṅganātha temple at Śrīraṅgam.’

‘ Inscripton on the west wall of the *second* prākāra of the Jambukeśvara temple.’

‘ Inscripton on the south wall of the *second* prākāra of the Raṅganātha temple.’

‘ Inscripton on the south-west corner of the *third* prākāra of the same temple.’—(Raṅganātha inscrip. of Sundarapandya, *Ep. Ind.*, Vol. III, pp. 7, 9, 10.)

(12) ‘ This inscripton (Jambukeśvara inscrip. of Valaka-Kamaya) is engraved on the north wall of the *second* prākāra of the Śaiva temple of Jambukeśvara on the island of the Śrīraṅgam near Trichinopoly.’—(*Ep. Ind.*, Vol. III, p. 72.)

(13) ‘ This Grantha inscrip. is engraved on the north wall of the *first* prākāra of the Ādipurīśvara temple at Tiruvaṭṭiyur near Madras.’—(*Ep. Ind.*, Vol. V, p. 106.)

(14) ‘ Raṅganātha inscrip. of Ravivarman of Kerala ’ is on the north wall of the *second* prākāra of the temple of Raṅganātha (Viṣṇu) on the island of Śrīraṅgam.’—(*Ep. Ind.*, Vol. IV, p. 148.)

(15) Śilāprākāra—an enclosure of stone for the temples of Kuntī Mādhava and Bhimeśvara.—(Pithāpuram Pillar inscrip. line 11, second Drākshārāma Pillar inscrip., lines 13-14, *Ep. Ind.*, Vol. IV, pp. 329, 330.)

(16) Durggaṁ cha Tāmra-nagarim abhito vyādhatta Prākāram urnatam udarichita-gopuram saḥ—‘ he surrounded the Tāmra nagari with a wall surmounted by towers.’—(Chebrolu inscrip. of Jaya, v. 27, *Ep. Ind.*, Vol. V, pp. 147, 149.)

(17) Māṭa-kūṭa-prākāra-khaṇḍa-sphuṭita-jirṇṇoddhāraḥ—‘ for the repairs of whatever might become broken or torn or worn out belonging to the enclosure ’ (the more usual expression here would be ‘ Prāsāda ’). Dr. Fleet, *Ep. Ind.*, Vol. V, p. 249, note 6.—(Inscrip. at Ablur, no. E, lines 59, 75, *Ep. Ind.*, Vol. V, pp. 249, 257, 250, 258.)

(18) Kimjalpitena bahunā grāva-prākāra-valaya-bāhyam iha |

(Gadag inscrip. of Vira-Ballala II,  
v. 47, *Ep. Ind.*, Vol. VI, p. 97.)

(19) Prākāram atyunnatam—a very high wall.

(Maṅgalagiri Pillar inscrip. v. 47,  
*Ep. Ind.*, Vol. VI, pp. 124; 125.)

(20) Prākāraiḥ pātitaḥ samyak parikhāḥ paripūryya yaḥ |

Pradhvasaṁ ripu-durggāṇāṁ prāg-bhāva-samaṁ vyadhāt |

(Two pillar inscrip. at Amaravati, no. A, inscrip. of Keta II, v. 19, *Ep. Ind.*, Vol. VI, p. 150.)

- (21) Iha vijayinā prākāra-śrīr mmahopala-nirmmitā jala-dhārāgatir aty-aty-unnā niroddhum ivodhdhatā |  
(Two Bhuvanēśvara inscrip. no. A, of Svapnēśvara, v. 24, *Ep. Ind.*, Vol. vi, p. 202.)
- (22) Gopura-prākārotsava-maṁṭapair upachitam |  
(Kondavidu inscrip. of Krishnaraya, v. 27, line 118, *Ep. Ind.*, Vol. vi, pp. 237, 231, 232.)
- (23) Mahāmaṇḍapaṁ prākāraṁ para-mālikāvilasitaṁ muktāmayīm cha prapā(bhā)m |  
(Fourteen inscrip. at Tirukkovalur, no. K, lines 1-2, *Ep. Ind.*, Vol. vii, 145-46.)
- (24) Prākāraḥ Kanakāchale virachitaḥ—built extensively ramparts on the Kanakāchala (the name of the fort of Jālar, Mr. Ojha). Prof. Kielhorn.—(The Chahamanas of Naddula, no. C, Sundhā Hill inscrip. of Chāchigadeva, v. 38, *Ep. Ind.*, Vol. ix, pp. 77, 73.)
- (25) Paritaḥ praṇavākāra-pra(prā)kāra-valayārṁchitaṁ—'encircled by a wall of the shape of the praṇava.'—(Kṛishṇapuram plates of Sadasivaraya, v. 55, *Ep. Ind.*, Vol. ix, pp. 336, 341.)
- (26) 'There are several similar inscriptions in the outer wall of the (Velur) temple, viz., two on the pedestal of the two dvāra-pālakas in front of the gopura, one on the left outer wall of the inner prākāra . . .'—(*H.S.I.I.*, Vol. I, p. 127.)
- (27) 'This inscription (no. 85, *H.S.I.I.*, Vol. III) is engraved on the right of the entrance into the east wall of the prākāra of the Vāmanapurīśvara temple at Tirumāṇikuli in the Cuddalore Tāluka of the South Arcot District.'—(*H.S.I.I.*, Vol. III, p. 209.)
- (28) 'This inscription (*H.S.I.I.*, Vol. III, no. 88) is engraved on the left of the entrance to the north wall of the fourth prākāra of the Raṅganātha temple on the island of Śriraṅga near Trichinopoly.'—(*H.S.I.I.*, Vol. III, p. 217.)
- (29) 'For this Prasanna-Virūpāksha, a temple, enclosing wall (prākāra), gopura, finial covered with gold, and a Manmatha tank were constructed.'—(*Ep. Carnat.*, Vol. x, Mulbagal Taluq, no. 2; Roman Text, p. 82; Transl., p. 71.)
- (30) Kāñchīpura-prākārāntarita-pratāpam akarod yaḥ Pallavānārṁ patim—'he caused leader of the Pallavas . . . to hide his prowess behind the ramparts of (the city) of Kāñchīpura.'—(Sanskrit and Old Kanarese inscrip., no. LV, line 14, *Ind. Ant.*, Vol. VIII, pp. 242, 245, c. 1, line 23 f.)
- (31) 'There are three enclosures (prākāras) in the Tiruvejjarai Temple, the first two being studded with inscriptions.'—(Notes in the Tiruvejjarai inscrip, *Ind. Ant.*, Vol. XXXIV, 264, para. 5, lines 1-2.)

(32) 'The stone prākāra or compound wall (of the Amṛiteśvara temple at Amṛitāpura in the Tarikere Taluq, described and illustrated in the *Mysore Archaeological Reports* for 1911-12, pp. 24-26, and frontispiece) is now in ruins. It had on the top all round thick stone discs, about 6½ feet in diameter, with rectangular bases, both in one piece, the outer faces being sculptured with fine figures of flowers, animals, gods, etc., in relief . . . The prākāra must have once presented the appearance of a veritable art-gallery, seeing that the artistically carved figures are of various kinds and designs.'—(V. A. Smith, *Architecture and Sculpture in Mysore, Ind. Ant.*, Vol. XLIV, p. 93, para. 6.)

PRĀGATA—A type of pavilion.

(*M.*, xxxiv, 410 ; see under MAṆḌAPA.)

PRĀG-VAMŚĀ—An auxiliary shed to a sacrificial room.

PRĀṄGAṆĀ (see AṄGAṆĀ)—The court, the courtyard.

(1) Kathā-sarit-sāgara (*Pet. Dict.*) :

59, 26 : Nṛipāsthāna-prāṅgaṇam ।

15, 89 : Sā prāṅgaṇa-dvāra-kavāṭānta-vilambinī ।

(2) Hitopadeśa (2, 3, etc.) : Tasya prāṅgaṇc gardhabho baddhas tishṭhati kukkuraś chopavishṭha ।

(3) *Rājatarāṅginī* (1, 247, etc.) : Prāṅgaṇād bahiḥ ।

(4) See the first Praśasti of Baijnath, v, 34, *Ep. Ind.*, Vol. I, pp. 107, 111.

(5) Cf. Kālapriya (name of the god and temple of Mahākāla at Ujjain), prāṅgaṇam tīrṇā ।—(Cambay Plates of Govinda IV, v. 19, *Ep. Ind.*, Vol. VII, pp. 38, 29.)

RĀDEŚĀ (see AṄGULA)—The distance between the tips of the fully-stretched thumb and forefinger.

(1) Daśatva(? ā)ṅgula-parvāṇi prādeśa iti saṁjñitāḥ ॥

Aṅgushṭhasya prādeśīnyā vyasa-(h) prādeśa uchyate ।

(*Brahmāṇḍa-Purāṇa*, Part I, 2nd Anu-  
shaṅgapāda, Chap. VII, vv. 96, 97.)

(2) Aṅgushṭha-tarjanī-yuktaṁ prādeśam iti kīrtitam ।

(*Suprabhedāgama*, xxx, 21.)

PRĀSĀDA—A temple, a palace, an edifice, buildings in general, a platform, a Buddhist assembly or confessional hall.

Harmyādi dhaninūṁ vīśaḥ prāsādo deva-bhū-bhujām ।

(*Amarakośha*, II, 2, 9.)

(1) *Mānasāra* :

Temple :

Prāsāda-maṇḍapam chaiva śabhā-śālā-prapū-(m) tathā ।

(A)raṅgam iti chaitāni harmyam uktaṁ-(tāni) purātanaih ।

(*M.*, III, 7-8.)



Prāsāda-maṇḍapaṁ tathā varuṇādi-deśe |  
Sāṅge cha gopura-pade tv-apareshu sarve |  
(There should not be any defect).

(*M.*, LXIX, 70; 71.)

The palace of a king :

Nṛipa-prāsāda-saṁyuktā (bhumiḥ) samā chaitya-saṁpagā |

(*M.*, IV, 23.)

Palaces are elaborately described (*M.*, XLI, 1-51 ; see under RĀJAHARMIYA.)

Buildings in general (called Vimāna in the *Mānasāra* and Prāsāda in the works quoted below) :

The general description (*M.*, XVIII, 1-418) :

They are used as residences of gods and men :

Taitilānāṁ dvijātīnāṁ varṇānāṁ vāsa-yogyakam | (2)

Their sizes (see details below)—from one to twelve storeys :

Eka-bhūmi-vimānādi-ravi-bhūmy-avasānakam | (3)

Their plans (lines 12-91) ; see under VIMĀNA-LAKṢHAṆA.

The three styles and their characteristic features (92-105) are given under NĀGARA, DRĀVIḌA and VEŚARA.

The description of the towers and domes (106-137 ; see under STŪPI).

The building materials are stone, brick, timber and iron (138).

I. Three classes of buildings—Śuddha or pure, made of one material (lines 139, 140) ; Mīśra or mixed, made of two materials (lines 139, 140) and Saṁkīrṇa or amalgamated, made of three materials, namely stone, brick and timber (lines 139, 141) : one material alone is especially recommended (line 142).

Description of the Stūpi-kīla which comprises all the parts above the Stūpi or dome is given in detail (lines 145-417).

Chap. XIX (named Eka-bhūmi) :

The classifications :

II. Referring to measurement, in accordance with the various cubits—Jāti (lines 2, 3), Cihanda (lines 2, 4), Vikalpa (lines 2, 4), and Ābhāsa (lines 2, 5).

III. Sthānaka referring to height (line 7), Āsana referring to breadth (line 8), and Śayana referring to width or length (line 9).

IV. The same are otherwise called Saṁchita (line 10), Asaṁchita (line 10) and Apasaṁchita (line 11) respectively. These classes of buildings also refer to the postures of the idols, namely erect, sitting and recumbent respectively. But the details of these postures are reserved for a subsequent chapter.

V. Masculine buildings are equiangular (line 14) and have male deities in them (line 16), feminine buildings are rectangular (line 18) and house

female deities (line 16) ; but in the feminine class of buildings the male deities also can be installed (line 17).

The details of the component parts of the ground floor are common for various types which are described below (lines 18-164).

VI. The eight kinds of the single-storeyed buildings with their characteristic features (Chap. XIX, 1-264) :

(1) Vaijayantika is furnished with round spire (śīraha), pinnacle (śīraḥ) and neck (grīva) (line 166) ; (2) Bhoga has similar wings (line 167) ; (3) Śrīvīśāla has the bhadrā or front porch in it (line 168) ; (4) Svasti-bandha has the octangular finial (line 169) ; (5) Śrīkara has a quadrangular steeple (line 170) ; (6) Hasti-priahṭha has an oval steeple (line 171) ; (7) Śkandatāra has a hexagonal spire and neck (line 172) ; and (8) Kesara has the front porch, the side-towers at the corners of the roof, and its nose, head and neck are round or quadrangular (lines 173-175). For further details, see EKA-BHŪMI.

VII. The eight kinds of the two-storeyed buildings (Chap. XX, 1-114) :

(The general features are similar in all the eight kinds, the distinction lying in the different proportions given to the component parts from above the ground floor to the top.)

(9) Śrīkara (lines 94, 2-9) ; (10) Vijaya (lines 94, 10-15) ; (11) Siddha (lines 94, 16-18) ; (12) Pārahṇika or Pausṭhika (lines 94, 19-25) ; (13) Antika (lines 94, 26-27) ; (14) Adbhuta (lines 94, 28-33) ; (15) Svastika (lines 95, 35-41) ; and (16) Pushkala (lines 94, 42-43).

The projection, general features, and carvings on the doors when these buildings are used as temples are described (lines 44-93, 96-116).

For further details, see DVI-TALA.

VIII. The eight kinds of the three-storeyed buildings (Chap. XXI, 1-74) :

(The general features and the characteristic marks are similar to those of the two-storeyed buildings.)

(17) Śrīkānta (lines 12-11) ; (18) Āsana (lines 12-21) ; (19) Sukhālāya (lines 22-30) ; (20) Kesara (lines 31-32) ; (21) Kamalāṅga (lines 33-38) ; (22) Brahma-kānta (lines 39-40) ; (23) Meru-kānta (lines 41-49) ; and (24) Kailāsa (lines 50-52). For further details, see TRI-TALA.

The general features, characteristic marks and concluding details of the following kinds are similar, except the number of storeys, to those of the two- and three-storeyed buildings.

IX. The eight kinds of the four-storeyed buildings (Chap. XXII, 1-106) :

(25) Viṣṇu-kānta (lines 3-12) ; (26) Chatur-mukha (lines 13-24) ;

(27) *Sadā-śiva* (lines 25-33); (28) *Rudra-kānta* (lines 34-43); (29) *Īśvara-kānta* (lines 44-46); (30) *Mañcha-kānta* (lines 47-57); (31) *Vedi-kānta* (lines 58-59); and (32) *Indra-kānta* (lines 60-88). For further details, *see* CHATUS-TALA.

X. The eight kinds of the five-storeyed buildings (Chap. xxiii 1-50) :

(33) *Airāvata* (lines 3-12); (34) *Bhūta-kānta* (lines 13-15); (35) *Viśva-kānta* (lines 16-18); (36) *Mūrti-kānta* (lines 19-24); (37) *Yama-kānta* (lines 25-29); (38) *Gṛiha-kānta* (lines 30-32); (39) *Yajña-kānta* (lines 33-40); and (40) *Brahma-kānta* (lines 41-42). For further details, *see* PAÑCHA-TALA.

XI. The thirteen kinds of the six-storeyed buildings (Chap. xxiv, 1-48.) :

(41) *Padma-kānta* (lines 3-12); (42) *Kāntāra* (lines 13-14); (43) *Sundara* (line 15); (44) *Upa-kānta* (line 16); (45) *Kamala* (lines 17-18); (46) *Ratna-kānta* (line 19); (47) *Vipulāṅka* (line 20); (48) *Jyoti(sh)-kānta* (line 50); (49) *Saroruha* (line 50); (50) *Vipulākṛitika* (line 52); (51) *Svasti-kānta* (line 53); (52) *Nandyāvarta* (line 54); and (53) *Ikshu-kānta* (line 55). For further details, *see* SHAṬ TALA.

XII. The eight kinds of the seven-storeyed buildings (Chap. xxv, 1-40) :

(54) *Puṇḍarīka* (lines 3-23); (55) *Śrī-kānta* (line 24); (56) *Śrī-bhoga* (line 25); (57) *Dhāraṇa* (line 26); (58) *Pañjara* (line 27); (59) *Āśramāgāra* (line 28); (60) *Harmya-kānta* (line 29); and (61) *Hima-kānta* (line 30). For further details, *see* SAPTA-TALA.

XIII. The eight kinds of the eight-storeyed buildings (Chap. xxvi, 1-76.) :

(62) *Bhū-kānta* (lines 3-21); (63) *Bhūpa-kānta* (lines 22-28); (64) *Svarga-kānta* (lines 29-34); (65) *Mahā-kānta* (lines 35-39); (66) *Jana-kānta* (line 40); (67) *Tapa(s)-kānta* (lines 41-42); (68) *Satya-kānta* (lines 43-45); and (69) *Deva-kānta* (lines 46-47). For further details, *see* AṢṬA-TALA.

XIV. The seven kinds of the nine-storeyed buildings (Chap. xxvii, 1-48.) :

(70) *Saura-kānta* (lines 5-9); (71) *Raurava* (line 10); (72) *Chañḍita* (lines 11-12); (73) *Bhūshana* (lines 13-14); (74) *Vivṛita* (lines 20-22); (75) *Suprati-kānta* (lines 23-26); and (76) *Viśva-kānta* (lines 27-33). For further details, *see* NAVA-TALA.

XV. The six kinds of the ten-storeyed buildings (Chap. xxviii, 1-40.) :

(77) *Bhū-kānta* (lines 6-8); (78) *Chandra-kānta* (lines 6-8); (79) *Bhavana-kānta* (lines 9-13); (80) *Antariksha-kānta* (lines 14-15); (81) *Megha-kānta* (lines 16-17); and (82) *Abja-kānta* (line 18). For further details, *see* DAśA-TALA.

XVI. The six kinds of the eleven-storeyed buildings (Chap. xxxix, 1-50.) :  
 (83) Śambhu-kānta (lines 3-7) ; (84) Īśa-kānta (lines 8-9) ; (85) Chakra-kānta (lines 10-14) ; (86) Yama-kānta (lines 15-17) ; (87) Vajra-kānta (lines 18-24) ; and (88) Akra-kānta (lines 24-33). For further details, see EKĀDAŚA-TALA.

XVII. The ten kinds of twelve-storeyed buildings (Chap. xxx, 1-194.) :  
 (89) Pāñchāla (lines 8-10) ; (90) Drāvīḍa (lines 8-10) ; (91) Madhya-kānta (lines 11-14) ; (92) Kāliṅga-kānta (lines 14-16) ; (93) Varāṭa (? Virāṭa) (lines 17-27) ; (94) Kerala (lines 28-30) ; (95) Varṁśa-kānta (lines 31-32) ; (96) Māgadha-kānta (lines 33-34) ; (97) Jana-kānta (lines 35-36) ; and (98) Sphūrjaka (lines 7, 37-84, description of the twelfth storey).

These ten kinds are named, it should be noticed, after the historic places well marked in the ancient geography of India, which cover the whole length and breadth of the Indian Continent. Of these, the Pāñchāla and the Drāvīḍa are stated to be of the smallest type (line 10), next in size and importance are respectively the Madhya-kānta, the Kāliṅga-kānta, the Varāṭa (? Virāṭa), the Kerala, and the Varṁśa-kānta. The largest and the most important are the Māgadha (connected with the capital of King Aśoka and of the early Gupta Emperors) and the Jana-kānta, and also perhaps the Sphūrjaka, which, however, is not specified in detail (11).

The architectural details of these buildings will be found under these ten terms. The description of the twelfth storey is given under DVĀDAŚA-TALA.

(2) *Agni-Purāṇa*, Chap. xlii, vv. 1-9 (general plan), 10-25 (plan with reference to the idol), Chap. civ, vv. 1-11, 22-34 (further general plan), 11-21 (names, classes, shapes and description of forty-five kinds of temples) :

Prāsādaṁ sampravakshyāmi sarva-sādhāraṇaṁ śṛiṇu ||  
 Sarva-sādhāraṇaṁ chaitat prāsādasya cha lakṣhaṇaṁ |  
 Mānena pratimāyā vā prāsādaṁ aparāṁ śṛiṇu ||

(Chap. xlii, vv. 1, 9.)

Vakshye prāsāda-sāmānya-lakṣhaṇaṁ te śikhidhvaja |

(Chap. civ, v. 1.)

Five divisions depending on five shapes or plans, and each including nine kinds of temples (Chap., civ, vv. 11-13) :

I. Vairāja—quadrangular or square—includes :

(1) Meru, (2) Mandara, (3) Vimāna, (4) Bhadra, (5) Sarvato-bhadra, (6) Charuka (Ruchaka, in the *Kāmikāgama*, xxxv, 87, 91), (7) Nandika, (8) Nandi-varadhana, and (9) Śrīvatsa.—(Chap. civ, vv. 14, 15.)

II. Pushpaka—rectangular—includes :

(10) Ba(Va)labhī, (11) Gṛiha-rāja, (12) Śālā-gṛiha or Śālā-mandira, (13) Viśāla, (14) Sama, (15) Brahma-mandira, (16) Bhavana or Bhuvana, (17) Prabhava, and (18) Śivikā-veśma.—(Chap. cv, vv. 16, 17.)

III. Kailāśa—round—includes :

(19) Ba(Va)laya, (20) Dundubhi, (21) Padma, (22) Mahā-padma, (23) Varddhanī, (24) Ushṇishī, (25) Śaṅkha, (26) Kalaśa, and (27) Sva-vṛiksha.—(Chap. cv, vv. 17, 18.)

IV. Maṇika—oval (vṛittāyata)—includes :

(28) Gaja, (29) Vṛishabha, (30) Haṁsa, (31) Garutman, (32) Riksha-nāyaka, (33) Bhūshana, (34) Bhū-dhara, (35) Śrījaya, and (36) Pṛithivī-dhara.—(Chap. cv, vv. 19, 20.)

V. Tri-yiṣṭapa—octangular—includes :

(37) Vajra, (38) Chakra, (39) Svastika, (40) Vajra-svastika, (41) Chitra, (42) Svastika-khaḍga, (43) Gadā, (44) Śrikanṭha, and (45) Vijaya.—(Chap. cv, vv. 20, 21.)

(3) *Garuḍa-Purāṇa* (Chap. XLVII) has exactly the same general plan (vv. 1-20, 32-47), five shapes, five classes (vv. 21-23), and 45 kinds of buildings (vv. 24-32); but the wording is not identical. The fourth class is called Mālikā (v. 21) in the general description but the other reading, Maṇika, (v. 30) is given later on :

I. Vairāja—square (vv. 21-22)—includes the same nine kinds, but (7) Nandika is called Nandana, and (6) Charuka is correctly read as Ruchaka (vv. 24-25).

II. Pushpaka—rectangular (vv. 21-22)—includes nine kinds, of which (10) Valabhī is correctly spelt, (13) Viśāla is read as Vimāna, which is apparently a mistake in the *Garuḍa-Purāṇa* because (3) Vimāna is a kind of building included in the square (I) Vairāja class. But the reading of the Pushpaka class (II) seems better in the *Garuḍa-Purāṇa*, which may be quoted here :

(10) Valabhī, (11) Gṛiha-rāja, (12) Śālā-gṛiha, (13) Mandira, (14) Viśāla (text has Vimāna), (15) Brahma-mandira, (16) Bhavana, (17) Uttambha, and (18) Śibi(-vi)kā-veśma.—(Chap. XLVII, vv. 26-27.)

III. Kailāśa—round (vv. 21, 23)—includes nine kinds which also seem to have better reading :

(19) Valaya, (20) Dundubhi, (21) Padma, (22) Mahā-padma, (23) Mukuli (in place of Varddhanī), (24) Ushṇishī, (25) Śaṅkha, (26) Kalaśa, and (27) Guvā-vṛiksha.—(Chap. XLVII, vv. 28-29.)

IV. Maṇika—oval (v. 30)—includes the same nine kinds of which, however, (31), (32), and (33) are read as Garuḍa, Siṁha, and Bhūmukha respectively (vv. 29, 30).

V. Tri-viṣṭapa—octangular (vv. 21, 23)—includes nine kinds which seem to be better read here :

- (37) Vajra, (38) Chakra, (39) Muṣṭika (preceded by Babhru, v. 31).  
 (40) Vakra, (41) Svastika, (42) Khaḍga, (43) Gadā, (44) Śri-vṛiksha,  
 and (45) Vijaya.—(Chap. XLVII, vv. 31-32.)  
 (4) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 1-7, 8-14, 15-20, 21-27) :

(a) The general plan :

Evam vāstu-baliṃ kṛtvā bhajet shoḍaṭa-bhāgikam |  
 Tasya madhye chaturbhis tu bhāgair garbhaṃ tu kārayet || (1)  
 Bhāga-dvā-daśaka-sārdhaṃ tatas tu parikalpayet |  
 Chatur-dikṣu tathā jñeyam nirgamaṃ tu tato budhaiḥ || (2)  
 Chatur-bhāgena bhittinām uchchhrayaḥ syāt pramāṇataḥ |  
 Dvi-guṇaḥ śikharochchhrayo bhitty-uchchhraya-pramāṇa-  
 taḥ || (3)  
 Śikharārdhasya chārdhena vidheyā tu pradakṣiṇā |  
 Garbha-sūtra-dvayaṃ chāgre vistāro maṇḍalasya tu || (4)  
 Āyataḥ syāt tribhir bhāgair bhadra-yuktaḥ suśobhanaḥ |  
 Pañcha-bhāgena sambhajya garbha-mānaṃ vichakṣaṇaḥ || (5)  
 Bhāgam ekaṃ grīhītvā tu prāg-grīvaṃ kalpayet budhaḥ |  
 Garbha-sūtra-sama-bhāgād agrato mukha-maṇḍapaḥ || (6)  
 Etat sāmānyam uddiṣṭaṃ prāsādasya cha lakṣṇam | (7)

This description of the general plan is followed by that of some special plans (*see* vv. 8-14, 15-20).

Sāmānyam aparāṃ tad-vat prāsādaṃ śṛiṇuta dvijāḥ |  
 Tri-bhāgaṃ kārayet kṣetraṃ yatra tiṣṭhanti devatāḥ || (21)  
 Rathāṅkas tena mānena bāhya-bhāga-vinirgataḥ |  
 Nemī pādena vistūrṇā prāsādasya samantataḥ || (22)  
 Garbhaṃ tu dvi-guṇam kuryāt tasya mānaṃ bhaved iha |  
 Sa eva bhitter utsedho dvi-guṇaḥ śikharo mataḥ || (23)  
 Prāg-grīvaḥ pañcha-bhāgena nishkāsaḥ tasya chochyate |  
 Kārayet sushiraṃ tad-vat prākārasya tri-bhāgataḥ || (24)  
 Prāg-grīvaṃ pañcha-bhāgena nishkāsheṇa viśeshataḥ |  
 Kuryād vā pañcha-bhāgena prāg-grīvaṃ karna-mūlataḥ || (25)  
 Sthāpayet kapakaṃ tatra garbhānte dvāra-mūlataḥ |  
 Evam tu tri-vidhaṃ kuryāj jycāṣṭha-madhyā-kapīyasam || (26)  
 Liṅga-mānānubhedena rūpa-bhedena vā punaḥ |  
 Ete samāsataḥ proktā nāmataḥ śṛiṇutādhunā || (27)

(b) The names (vv. 28-30), description of architectural details (vv. 31-46), measures (vv. 47-51), and division (vv. 53-54), of twenty kinds of buildings (temples) :

(1) Meru has 100 cupolas (śṛiṅgha), 16 storeys (bhūmikā), many variegated spires (śikharas), and is 50 cubits broad (vv. 28, 31, 53).

(2) Mandara has 12 storeys, many spires and faces, and is 43 cubits broad (vv. 28, 37, 47, 53).

(3) Kailāśa has nine storeys, many spires and faces, and is 40 cubits broad (vv. 32, 47, 53).

(4) Vimāna-chchhanda has eight storeys, many spires and faces, and is 34 cubits broad (vv. 25, 32, 33, 47, 53).

(5) Nandi-varadhana has seven storeys, and is 32 cubits broad (vv. 29, 33, 48, 53).

(6) Nandana has seven storeys, and is furnished with horns (vishāṇa) and is 30 cubits broad (vv. 29, 33, 48, 53).

(7) Sarvato-bhadra has five storeys, 16 corners with various shapes, furnished with art-galleries (chitra-śālā), and is 30 cubits broad (vv. 29, 34, 35, 48, 53).

(8) Vallabhi-chchhandaka has five storeys, many spires and faces, and is 16 cubits broad (vv. 35, 50, 53).

(9) Vṛisha should resemble the height and length of the bull, should be round and without corners; it should have five cupolas and two storeys, and it should be 4 cubits at the central hall (vv. 30, 36, 44, 45, 53).

(10) Simha resembles the lion and is 16 cubits broad, is adorned with prominent top-rooms, and should be at the front neck six storeys high (vv. 29, 36, 40, 49, 53).

(11) Gaja resembles the elephant and is 16 cubits broad, and has many top-rooms (vv. 36, 41, 49, 53).

(12) Kumbha resembles the water-jar, has nine storeys, five cupolas and a cavity (aṅguli-puta-samsthāna), and is 16 cubits broad (vv. 37, 49, 53).

(13) Samudraka has 16 sides around, two top-rooms (? gable windows) at the two sides, and two storeys (vv. 38, 53).

(14) Padma has three storeys, 16 corners, a variegated auspicious spire and is 20 cubits broad (vv. 30, 39, 49, 53).

(15) Garuḍa has the bird-shape around, seven storeys and three top-rooms, is 8 cubits broad, and there should be 86 storeys or compartments (bhūmikā) (v. 42) all around the outside (vv. 41, 43, 51). There is a similar Garuḍa-building with ten storeys and a second Padmaka building with two storeys more (i. e., twelve storeys, v. 43).

(16) Hamsa (goose)-shaped is 10 cubits broad (vv. 30, 51).

(17) Vartula (ball or round)-shaped is 20 cubits broad (vv. 29, 49, 53).

No special description is given of the remaining kinds :

(18) Chatur-aśra (four-cornered, vv. 28, 53).

(19) Aṣṭāśra (eight-cornered, vv. 29, 53).

(20) Shoḍaśāśra (sixteen-cornered, vv. 29, 53).

The three divisions of these buildings according to three sizes :

Tathā mervādayaḥ sapta jyestha-liṅge śubhāvahaḥ |

Śrīvṛikshakā(-valabhī-ā)dayaś chāshtau madhyamasya pra-kīrtitaḥ ||

(53)

Tathā haṁsā(Sirhā)dayaḥ pañcha kanyase śubhadā matāḥ || (54)

Similar kinds of prāsādas (temples) are described almost in the same manner in both the *Bhaviṣṭya-Purāṇa* and the *Bṛihat-Saṁhitā*.

(5) *Bhaviṣṭya-Purāṇa*, Chap. cxxx, names (vv 23-26), description of the architectural-details and measures (vv. 27-35), and the twenty kinds of buildings (almost same as in the *Bṛihat-Saṁhitā*, see below) :

(1) Meru is 39 cubits high and 32 cubits broad, has twelve storeys, various windows (kuhara) and four gateways (v. 27). (2) Mandara is 30 cubits broad and has ten storeys (v. 28). (3) Kailāśa is 28 cubits broad, has spires and finials, and eight storeys (v. 28).

The description of the following is clearer in the *Bṛihat-Saṁhitā*, quoted below. The names are given here :

(4) Vimāna with latticed windows (v. 29) ; (5) Nandana (v. 29) , (6) Samudga (v. 30), but Samudra (v. 24) as in the *Bṛihat-Saṁhitā* (LVI, 28-53) ; (7) Padma (v. 30) ; (8) Garuḍa (v. 31) ; (9) Nandivardhana (v. 29, but Nandī, v. 31) ; (10) Kuñjara (v. 32) ; (11) *Griha-rāja* (v. 32) : *Bṛihat-Saṁhitā* (LVI, 25) reads Guha-rāja ; (12) Vṛisha (v. 33) ; (13) Haṁsa (v. 33) ; (14) Ghaṭa (v. 33) ; (15) Sarvato-bhadra (v. 34) ; (16) Sirhā (v. 35) ; (17) Vṛitta (as in the *Bṛihat-Saṁhitā*, LVI 29, 49) but here (v. 33) it is read Vṛisha like (12), which is apparently a mistake (see v. 30).

No special description is given of the remaining kinds :

(18) Chatur-koṇa (four-cornered, v. 25) : *Matsya-Purāṇa* (Chap. cclxix, vv. 28, 53) reads Chatur-aśra, and *Bṛihat-Saṁhitā* (LVI, 28) has Chatur-aśra ; (19) Aṣṭāśra (octangular, v. 25) ; (20) Shoḍaśāśra (sixteen-cornered, v. 25).

(6) *Bṛihat-Saṁhitā* (LVI, 1-19) :

The religious merits acquired by building temples (vv. 1-2).

The suitable sites are stated to be gardens, woods, banks of rivers, seas or tanks (vv. 3-8) ; ground (v. 9) ; general plan (v. 10) ; situation of doors (v. 10) ; comparative measures of the length, breadth, and height (v. 11) ; of the



adytum (garbha, v. 12), of the doors and their different parts (vv. 12-14) ; carvings on doors (v. 15) ; comparative measures of the idol, pedestal, and door (v. 16) ; the heights of storeys (vv. 29-30).

This is followed by the classification (vv. 17-19) and the description of the architectural details (vv. 20-28) of the same twenty kinds of temples (prāsāda) as are given in the *Matsya-Purāṇa* and the *Bhaviṣhya-Purāṇa*. The names of these buildings are given below : their details which are almost same as in the *Purāṇas*, will be found described under these terms :

- (1) Meru (v. 20) ; (2) Mandara (v. 21) ; (3) Kailāśa (v. 21) ; (4) Vimāna-(chchhanda) (vv. 17, 22) ; (5) Nandana (v. 22) ; (6) Samudga (v. 23) ; (7) Padma (v. 23) ; (8) Garuḍa (v. 24) ; (9) Nandi-wardhana (v. 24) ; (10) Kuñjara (v. 25) ; (11) Guha-rāja (v. 25) ; (12) Vṛisha (v. 26) ; (13) Hamśa (v. 26) ; (14) Ghaṭa (v. 26) ; (15) Sarvato-bhadra (v. 27) ; (16) Simhā (v. 28) ; (17) Vṛitta (vv. 18, 28) ; (18) Chatush-koṇa (vv. 18, 28) ; (19) Ashtāśra (vv. 18, 28) ; (20) Shoḍaśāśra (vv. 18, 28).

(7) *Kāmikāgama* :

No distinction is made between PRĀSĀDA and VIMĀNA (*cf.* also the *Mānasāra*, L, 40, etc.) :

Jātyādi-bhcdakair yuktaṁ vimānam saṁpadām(-s)-padam ।

(LV, 131, this chapter is named Prāsāda-bhūshaṇa.)

Buildings in general (LV, 1-210) ;

Their component parts :

Prāsāda-bhūshaṇa(m) vakshyc śrūyatām dvijasattamāḥ ।

Syāt pāda-prastaram-grīva-varge mūle tu vedikā ॥ (1)

Shapes and kinds of Prāsāda (buildings in general) :

Yānaṁ vā śayanam vāpi gopurākṛitir eva vā ।

Pīthākṛitir vā mervādi-parvatākṛitir eva vā ॥ (194)

Nandyākṛitir vā dhāma vidheyam cheṣṭa-deśake ।

Maṇḍape gopurc vapre parivārālayādishu ॥

Evam evam vidheyam syāt tathā bhuvī viśishyate ॥ (195)

The synonyms :

Vimānam bhavanam harmyam saudham dhāma niketanam ।

Prāsādaḥ sadanam sadma gham avasatham grīham ॥ (208)

Ālayam nilayam vāso'py-ālayo vastu-vāstukam ।

Kshetram āyatanam veśma mandiram dhishṇakam padam ॥ (129)

Layam kshayam āgāram cha tathodāvasitam punaḥ ।

Śthānam ity-evam uktāni paryāya-vachanāni hi ॥ (210)

The four classes :

Jāti (v. 128), Chhanda (129), Vikalpa (130), and Ābhāsa (130).

The Chapter LV refers to the description of a single building and its component parts.

So also does the Chapter XLV (*see* under MĀLIKĀ); it is named Mālikā-lakṣhaṇa), but it does not mean anything but Prāsāda : Prāsāda-vyāsadirghochchā proktā prāsāda-mālikā ॥ (4)

Further classifications (Chapter XLV) :

- I. Sañchita, Apasañchita, and Upasañchita (v. 6).
- II. Nāgara (vv. 6, 12, 13), Drāviḍa (vv. 6, 14, 15), and Vesara (vv. 7, 16-18).
- III. Jāti (vv. 7, 19), Chhanda (vv. 7, 20), and Vikalpa (vv. 7, 20).
- IV. Suddha (vv. 7, 21), Mīśra (vv. 7, 22), and Sañkirṇa (vv. 7, 22).
- V. Puṅḷiṅga or masculine also called Sañchita (vv. 8, 9), Stri-  
liṅga or feminine (vv. 9, 10), and Napuṃsaka or neuter (v. 11).

This class (V) does not refer (like the *Mānasāra*) to the sexes of the deities installed in temples. Here they appear like residential buildings. Their characteristic features are determined by some architectural details (*see* under these terms—PUNLIṅGA, etc.).

The distinguishing marks of the other four classes (I to IV) are similar to those of the *Mānasāra* noticed above (*see* the details under those terms, Sañchita, Nāgara, etc.).

VI. The technical names of Prāsāda :

- (1) Sindhuka (Chap. XLV, vv. 23-28); (2) Sañpūrṇa (vv. 29-30); (3) Meru-kūṭa (v. 31); (4) Kshema (vv. 32-34); (5) Śiva (vv. 35-38); (6) Harmya (vv. 39-40); (7) Saumya (v. 40); (8) Viśāla (v. 41); (9) Sarva-kalyāṇa (vv. 42-49); (10) Vijaya (v. 50); (11) Bhadra (v. 51); (12) Raṅga-mukha (v. 52); (13) Alpa (vv. 53-54); (14) Koṇa (vv. 55-58); (15) Geya (vv. 58-59); (16) Sāra (v. 60); (17) Puṣhkara (vv. 61-63); (18) Adbhuta (v. 61a); (19) Sañkirṇa (v. 62); (20) Daṇḍa (v. 64).

*See* details under MĀLIKĀ and these terms.

In Chapter xxxv, Śālās, in almost the same sense as of Prāsāda, are divided into five classes, namely, Sarvato-bhadra (vv. 87-88), Vardhamāna (vv. 87, 88), Svastika (vv. 87, 89), Nandyāvarta (vv. 87, 90), and Charuka (vv. 87, 91).

Their characteristic features will be found under these terms.

(8) *Suprabhedāgama*, Chap. xxxi (named Prāsāda=temple) :

The nine kinds of width (vv. 1-3); the comparative measurements of the temple and adytum (vv. 4-6), of the inner and outer walls (vv. 6-8), of the liṅga or phallus and the pīṭha or pedestal (vv. 9-15).

The description of the four types of bases, namely, Padma-bandha, Chāru-bandha, Pāda-bandha, and Pratikrama (vv. 16-20).

The description of the ground floor consisting in the comparative measurement of the base, column, entablature, finial, dome, corner-tower, dove-cot, and spire (vv. 28-31).

All the twelve storeys are stated to be built in the same way :

Ādvā-daśa-talād evaṃ bhūmau bhūmau prakalpayet |

Evam uktam ihotsedhaṃ dvāra-bhedaṃ tataḥ śṛiṇu || (33)

The doors are then described (vv. 34-37).

Three styles of temples, namely, Nāgara, Drāviḍa and Vesara, are mentioned (v. 38).

Their essential features (vv. 38-39, *see* under those terms).

Ten types of temples :

(1) Kailāśa, (2) Mandara, (3) Meru, (4) Himavat, (5) Nishadha (also called Nīla-parvata, and Māhendra), (6) Naliṇaka, (7) Praliṇaka, (8) Nandyāvarta, (9) Śrīvarta (also Śrīpada), and (10) Parvata.

(*See* vv. 40-45.)

The comparative measurements of the storeys :

Evaṃ tale tale kāryaṃ nūnam ekaika-bhāgikam || (53)

The five kinds of columns—Śrīkara, Chandra-kānta, Saumukhya (also Sumukha), Priya-darśana, and Śubhaṅkarī(-ra) (v. 65) ; their shapes—four-sided, eight-sided, sixteen-sided, cylindrical, and of the combination of the first two (v. 67). They may be with or without a kumbha or pitcher (v. 54). The general features of the component parts (vv. 55-64) and the special features of the five orders are described (vv. 66-67).

The description of the arches is given (vv. 68-71).

Some ornaments, like nāsikā (vestibule), vedikā (platform), śikhara (spire), stūpi (dome), etc., are also described (vv. 72-93).

Here closes the description of the temples :

Prāsāda-lakṣaṇaṃ proktaṃ maṇḍapānām vidhiṃ śṛiṇu || (94)

This leads to the description of the detached buildings such as the pavilions, quarters for the attendant deities, gate-houses, and the enclosure, tanks, guest-houses, etc., which form parts of the temple in its wider sense.

The maṇḍapas or pavilions are first divided into four classes, namely, Deva(god)-maṇḍapa, śnapana(bath)-maṇḍapa, Vṛiṣha (the bull, Nandin)-maṇḍapa, and Nṛitta (music)-maṇḍapa (vv. 96-97, 98-99).

They are further classified under the names Nanda-Vṛitta, Śrīyā-vṛitta, Virāsana, Jaya-bhadra, Nandyāvarta, Maṇi-bhadra, and Viśāla (vv. 100-104).

These pavilions are distinguished by the number of columns they are furnished with :

Stambhānāṃ tu śatair yuktaṃ viśālam iti saṃjñitam |

Prāsād-vat samākhyātaṃ prastarāntaṃ pramāpataḥ || (104)

The columns of the *prāsādas* and those of the *maṇḍapas* are stated to be differently measured :

*Prāsāda-stambha-mānasya etat stambhaṁ viśishyate* || (105)

These latter columns have also other characteristic features (vv. 106-113).

The description of the pavilions closes with that of the flights of steps :

*Sopānaṁ cha yathāyuktyā hasti-hastaṁ tathaiva cha* |

*Evam samāsataḥ proktaṁ maṇḍapaṁ vidhi-pūrvakam* || (114).

The *prākāras* or enclosures are then described (vv. 115-128). They are strikingly similar to those described in the *Mānasāra*.

This *Āgama* like the *Mānasāra* divides the whole compound into five enclosed quadrangular courts. In both the treatises, each of the courts is stated to be furnished with a separate gate-house. Moreover these gate-houses are given the same technical names in both the works, viz. *Dvāra-śobhā* (in the first court), *Dvāra-śālā* (in the second), *Dvāra-prāsāda* (in the third), *Dvāra-harma* (in the fourth), and the *Dvāra-gopura* (in the fifth or the extreme boundary, *mahā-maryādā*; cf. *Mānasāra* under *GOPURA*.)

The *Parivārālayas* (temples of attendant deities), which are made in some of these five courts, are described (129 f.), and are also similar in both the treatises.

In the remaining portion of the chapter some objects like the façades of the temples, etc., are described.

From the abstracts given above, it will be clear that this chapter of the *Suprabhedāgama* deals with all the essential parts of a temple, which in the *Mānasāra*, including the residential buildings, occupy a space of twenty-eight chapters (XIII to XXXIX, XLVI). The description of this *Āgama*, though brief, is very explicit and to the point. The language also of the *Suprabhedāgama* is much better than most of the architectural treatises I have consulted.

The attention of readers is invited to the lists of the buildings described in the eight works under observation.

The list in the *Mānasāra* contains under twelve classes (or storeys) 98 types of buildings; the *Agni-Purāna* has under five classes 45 types, the *Garuḍa-Purāna* also has under the same five classes 45 types; the *Matsya-Purāna* has under three classes 20 types; the *Bhaviṣya-Purāna* has left out the broader divisions and contains 20 types; the *Bṛihat-Saṁhitā* in the very same way contains 20 types; the *Kārikāgama* has under three divisions (of various kinds) 20 types; and the *Suprabhedāgama* has left out all the minor divisions but has preserved the most important divisions, namely, the three styles (*Nāgara*, *Vesara*, and *Drāviḍa*) which comprise ten types of buildings.

The various broader divisions, such as the *Śuddha*, *Saṁchita*, *Sthānaka*, *Jāti*, *Puṅhīṅga*, etc., we have seen in the *Mānasāra*, are repeated in the

same terms and same sense in the *Āgamas*. The most important division, namely, the styles—Nāgara, Vcsara and Drāviḍa—is also preserved intact in the latter works. These are purely architectural divisions, consequently they are not taken into consideration in the non-architectural treatises like the *Purāṇas* and the *Bṛihat-Saṁhitā*. Even the broadest division into storeys under which the *Mānasāra* describes the buildings in twelve or thirteen chapters has lost its prominence in the latter works.

Thus the *Mānasāra* has the largest number of the types, namely, 98.

The *Agni-Purāna* and the *Garuḍa-Purāna* have 45 types each.

The *Matsya-Purāna*, the *Bhaviṣhya-Purāna*, the *Bṛihat-Saṁhitā*, and the *Kāmikāgama* have 20 types each.

The *Suprabhedāgama* has the smallest number of types, namely, 10.

The technical names of the types of buildings are common in many cases. In some instances the architectural details are identical. The lists of the *Agni-Purāna* and the *Garuḍa-Purāna* on the one hand, and the *Matsya-Purāna*, the *Bhaviṣhya-Purāna* and the *Bṛihat-Saṁhitā* on the other, are strikingly similar. Of the works containing the lists of 20 types, the *Bṛihat-Saṁhitā* has the most improved description. But in respect of brevity, explicitness and precision, the *Suprabhedāgama*, which contains the smallest number of types, surpasses all others.

The common names of the types, the identity of their details and the similarity in their description do not seem to be accidental. The grades of the linguistic style and the explicitness and precision of the description are not perhaps unconnected. And the variation in the number of types described in these works does not also seem to be meaningless.

The mutual relation and the historical connexion of these eight works have been discussed in great detail in the chapter on the date of the *Mānasāra* in the writer's *Śilpa-śāstra* and the *Hindu Architecture in India and Abroad*.

The object of this article is, however, to show by illustrations the denotation of the term 'Prāsāda.' And before drawing any conclusion, we shall examine briefly a few more literary quotations from works which are not architectural and where the term occurs quite incidentally, as well as from the archaeological records and the Buddhist canonical texts, where too the term is used casually.

(9) *Sāṅkhyāyana-Śrauta-sūtra*, xvi, 18, 13 (*Pet. Dict.*):

Samsthite madhyame' hany-āhavaniyam abhito dikshu prāsādān viminvanti |

(10) *Adbhuta-Brahmaṇa*, in *Indische Studien*, 1, 40 (*ibid.*):

Harmya-prāsāda-saṁkulā |

(11) 'Prākāra in the *Sāṅkhyāyana-Śrauta-sūtra* (xvi, 18, 14) denotes a walled mound supporting a raised platform (prāsāda) for spectators.' (Professors Macdonell and Keith, *Vedic Index*, II, 44.)

Cf. the text : Tān upariṣṭhāt samvyādhaiḥ prākāraiḥ parighnanti ।

'Prāsāda in the sense of palace does not occur until the late *Adbhuta-Brahmaṇa*' (see above, no. 10).—(Indische Studien, I. 40, *Vedic Index*, II, 51.)

(12) *Rāmāyaṇa* (Cock) :

- II. 7, Prāsādam chandra-saṅkāśam āuroha ॥  
Ayodhyānī mantharū tasmāt prāsādād anvavaiḥshata ।
- II. 12 Kailāsa-śikharākārāt prāsādād avarohata ।
- II. 27 Prāsādastho daśarathaḥ . . . ।  
(Here 'Prāsāda' must mean a palace.)
- II. 3, 31 Sa taṁ kailāsa-śringābhaṁ prāsādam . . . ragu-  
nandanah . . . āuroha . . . ।
- II. 16, 42 Prāsāda-śringeṣhu ।
- VI. 26, 5 Āuroha . . . prāsādam hima-pāṇḍuram ।  
Bahu-tala-samutsedham ।
- VI. 42, Ruddhām tu nagarīm śrutvā . . . prāsadam . . .  
ārohata ।
- II. 33, 3 Tataḥ prāsāda-harmyāṇi vimāna-śikharāṇi cha ।  
Abhiruhya janah śrīmān udāsīno vyalokayata ॥
- II. 33, 4 Āruhya tasmāt prāsādād dīnāḥ paśyanti rūghavam ।
- V. 43, 4 Āruhya giri-saṅkāśam prāsadam . . . ।
- IV. 26, 41 Tato helia-pratishṭhāne varāstarāṇa-saṁvṛite ।  
Prāsāda-śikhare ramye chitra-mālyopasobhite ॥  
Prān-mukhaṁ vidhivan mantraiḥ styāpayitvā varāsane ।
- II. 17, 17 Megha-saṅghopamaiḥ śubhaiḥ . . . ।  
Prāsāda-śringair vividhaiḥ kailāsa-śikharopamaiḥ ।
- IV. 33, 15 Vānarenda-grihaḥ . . . śukla-prāsāda-śikharaiḥ kailāsa-  
śikharopamaiḥ ।
- VI. 41, 88 Prāsāda-śikharam śaila-śringam ivonnatam ।
- VI. 41, 90 Prāsāda-śikhareshu ।
- II. 51, 21 Harmya-prāsāda-saṁpannām . . . rāja-dhānīm ।
- II. 100, 42 Prāsādair vividhākārair vṛitām . . . ayodhyām ।
- V. 2, 49 Prāsāda-mālā-vitatām . . . mahā-purīm ।
- VI. 39, 21 Prāsādaiś cha . . . laṅkā parama-bhūṣitā ।
- VI. 39, 27 Prāsāda-mālābhir alaṅkṛitām . . . purīm ।
- III. 55, 7 Gṛihaṁ deva-gṛihopamān . . . harmya-prāsāda-saṁ-  
bādham ।

- III. 55, 10 : Hema-jāla-vṛitāś chāsams tatra prāsāda-panktayaḥ |  
 V. 6, 44 : Prāsāda-saṅghāta-yutam . . . mahā-gṛīham |  
 V. 9, 2 : Bhavanam rākahasendrasya bahu-prāsāda-saṅkulam |  
 IV. 33, 8 : Vindhya-meru-prakhyaiḥ prāsādair naika-bhumibhiḥ |  
 II. 65 3 : Rājānam stuvataṁ teshāṁ . . . prāsādāghoga-vistṛṇas  
 tu śabda hy-avartata |  
 (Cf. also II, 27, 9 ; 57, 18 ; 57, 20.)  
 I. 80, 19 : Prāsāda-mālā-saṁyuktāḥ . . . nivṛcāḥ |  
 II. 88, 5 : Prāsādāgra-vimāneshu valabhisu cha sarvadā |  
 Haima rājata-bhaumeshu varāstarpaśālīshu ||  
 II. 88, 7 : Prāsāda-vara-varyeṣu śītāvatsu sugandhishu |  
 Ushitvā meru-kalpeṣu kṛta-kāñchana-bhittishu ||  
 II. 91, 32 : Harmya-prāsāda-saṁyukta-toraṇāni |  
 IV. 33, 5 : Mahatīm guhām . . . harmya-prāsāda-sambādham |  
 IV. 42, 44 : Bhavanam . . . prāsādāṅgaṇa-sambādham |  
 VI. 41, 86 : Prāsādām śaiḷa-saṅkśātam |  
 (Cf. also v, 6, 16 ; 57, 7.)  
 VI. 75, 7 : Prāsādāḥ parvatākārāḥ | (cf. also vi, 75, 6.)  
 VI. 75, 12 : Mukta-mapi-vichitrāṁś cha prāsādāṁś cha . . . agnir  
 dahati tatra vai |  
 V. 5, 3 : Harmya-prāsāda-sambādham |  
 I. 5, 5 : Prāsādair anta-vikṛitaiḥ parvatair iva śobhitām |  
 (13) *Mahābhārata* (Cock) :  
 V. 91, 3 : Tasya (Duryodhana-gṛīhasya) kakshāṁ vyatukramya  
 tiro dvāḥ-sthair avṛitaiḥ |  
 Tato abhra-ghana-saṅkśātam gṛīha-kūṭam ivochchri-  
 tam ||  
 Śrīyāivalambantaṁ prāsādam āruroha mahāśayaḥ |  
 I. 3, 133 : Nāga-lokam . . . aneka vidha-prāsāda-harmya-  
 valabhi-niryūha-śata-saṅkulam |  
 I. 109, 9 : Nagaram . . . prāsāda-śata-sambādham, |  
 II. 10, 3 : Sabhā . . . divyā hemamayair uchchaiḥ prāsādair  
 upaśobhitā |  
 V. 88, 20 : Etad (Duhśāsanasya gṛīham)dhi ruchirākaraṁ prā-  
 sādair upaśobhitam |  
 V. 89, 11 : Gṛīham (Dhṛitarāshṭrasya) . . . prāsādair upaśobhi-  
 tam |  
 XII. 44, 6 ; Duryodhana-gṛīham prāsādair upaśobhitam |  
 XII. 44, 8 : Prāsāda-mālā-saṁyuktam (Duhśāsanasya gṛīham) |

- I. 185, 19, 20, 22 : Sarvataḥ sarvṛitaḥ (samājavātaḥ) śubhraiḥ  
prāsādaiḥ sukṛitochchrayaiḥ |  
Suvārṇa-jāla-sarvṛitair maṇi-kuṭṭīma-bhūṣhapaiḥ |  
Sukhārohaṇa-sopānair mahāsana-parichchhadaiḥ ||  
Asambādha-tata-dvāraiḥ śayanāsana-śobhitaiḥ |  
Bahu-dhātu-pinaddhāṅgair himavach chhikarair  
iva ||
- V. 90, 14 : Ye . . . prāsādāgreṣhv-abodhyantarāṅka-vājina-  
śāyinaḥ (Pāṇḍavāḥ) |
- XV. 16, 1 : Prāsāda-harmyeshu vasudhāyāṁ cha. . . |  
Nārīṇāṁ cha narāṇāṁ cha niḥsvanaḥ sumahān  
abhūt |
- XIV. 25, 22 : Seyaṁ bhūmau pariśrāntā śete prāsāda-śāyini |  
Prāsāda-śālā-sambādham maṇi-pravara-kuṭṭimam |  
Kārayāmāsa vidhivad-dhema-ratna-vibhūṣitam |
- (14) *Manu-Saṁhitā* (VII, 147, etc.) :  
Giri-ṛiṣṭhaṁ samāruhya prāsādaṁ vā raho gataḥ |  
Araṇye niḥśalāke vā mantrayed avibhāvitaḥ ||
- (15) *Pañchatantra* (Bombay, I. p. 38, etc.) :  
Rājakanyāṁ . . . sapta-bhūmika-prāsāda-prānta-gatām |
- (16) *Hitopadeśa* (*Bohtlingk*, p. 157, I, 30, etc.) :  
Rājā . . . prāsāda-garbhāṁ gatvā . . . |  
Prāsāda-ṛiṣṭhe-sukhopaviṣṭhānāṁ rāja-putrāṇāṁ |
- (17) *Megha-dūta* (ed. Stenzler, 64, etc.) : Abhraṁ-lihāgraiḥ prāsādaiḥ |
- (18) *Raghu-vaṁśa* (14, 29, etc.) : Prāsādam abhraṁ-liham āruroha |
- (19) *Mṛichchha-kaṭika* (ed. Stecpler, Cock) :  
p. 79 : Ārāma-prāsāda-vedikāyāṁ |  
p. 84 : Vidyut-kāñchana-dīpikēva rachitā prāsāda-saṁchāriṇi |  
p. 21, 132, 162, 164 : Prāsāda-bālāgram |
- (20) *Rājatarāṅgini* (*Pot. Dict.*, 4, 102, etc.) : Prāsādāṅganam |
- (21) Ekas taylor amum akārayad indu-mauleḥ prāsādam adri-tanayā  
bhavaṇaṁ tathānyā—'the one of them built this temple of the god who  
wears the moon on his head, and the other that of the Daughter of the  
Mountain.'—(*Dewal Prasasti of Lalla the Chhinda*, v. 27, *Ep. Ind.*, Vol. I,  
pp. 80, 84.)
- (22) Ishṭāpūrta-prachura-sukritārambha-nityādṛitena prāsādo'yaṁ  
. . . nirmāpyate—'he caused this edifice to be erected . . . in  
it there is here the god Nārāyaṇa.'—(*Mau-chandella inscrip. of Madana-  
varman*, v. 46, *Ep. Ind.*, Vol I, pp. 202, 206.)
- (23) Prāsādena tavāmunaiva haritām adhvā niruddho mudhābhāno-  
dyāpi kṛito'sti dakṣiṇādīśaḥ koṇāntavāśi munih |—(*Deopara inscrip. of  
Vijaya Sena*, v. 27, *Ep. Ind.*, Vol. I, pp. 310, 314.)



(24) Akārayat svayam Śambhu-prāsādāli-dvayam nijaḥ—' She too made her people construct that hall of study (and) lay out that long line of gardens in two ranges (adjoining Śambhu's temple).—(Bhera-ghat inscrip. of Alhanadevi, v. 38, *Ep. Ind.*, Vol. II, pp. 13, 16.)

(25) Aneka-prāsādaiḥ parivṛitamati prāmsukalaśam giriśaprasādam vyarachayat |—(Chitorgadh inscrip. of Mokala of Mewad, Part II, v. 2, *Ep. Ind.*, Vol. II, p. 421.)

(26) Vāpi-kūpa-tādāga-kuṭṭima-maṭha-prāsāda-satrālayān |

(Śrīdhara's Devapattana Prasasti, v. 10,  
*Ep. Ind.*, Vol. II, p. 440.)

(27) Mahā-śaila-prāsāda—great stone temple.—(Pattadakal inscrip. of Kirtivarman II, lines 7, 11, 14, *Ep. Ind.*, Vol. III, pp. 4, 5.)

(28) Ghanam prasadam nava-hema-kumbha-kalitam ramyam mahamantapam |

'(He presented) a solid temple (prasāda) adorned with nine golden pinnacles (kumbha) and a beautiful large hall (to the temple of Hari, the lord of Maṅgalasaila).—(Maṅgalagiri Pillar inscrip., v. 51, *Ep. Ind.*, Vol. VI, pp. 125, 115.)

(29) Prāsādo rachitas sudhā-chchhavi-hasat-kailāśa-śailaśvarasya. (v. 22), prāsadam Īśasya (v. 32), prāsāda-kīrtiḥ (v. 34).—(Two Bhuvanēsvara inscrip. no. A of Svapnēsvara, *Ep. Ind.*, Vol. VI, p. 202.)

(30) Prāsadam navabhiś cha hema-kalaśair aty-unnatam gopura-prākārotsava-mantapair upachitam śrī-rāma-bhadrāya cha—'an exceedingly high temple furnished with nine gilt domes, a gate tower, a wall and festive hall, to the holy Rāmabhadra.'—(Kondavidu inscrip. of Krishnaraya, v. 27, *Ep. Ind.*, Vol. VI, pp. 237, 231.)

(31) Kṣhaṇḍa-sphuṭita-prāsāda-puṇaḥ-saṃskaraṇārtham pratipāditaḥ—'he granted for defraying the expenses of the repairs of the temple broken in parts.'—(Plates of Dantivarman of Gujarat, line 67, *Ep. Ind.*, Vol. VI, pp. 293, 286.)

(32) Tena bhrāṭri-yugena yā prati-pura-grāmādhva-śaila-sthalam vāpi-kūpa-nipānakā saraḥ prāsāda-satrādikā |

Dharmma-sthāna-paramparā nava-tarā chakre'tha jirṇnoddhṛita-tat-saṃkhyāpi na budhyate yadi param tad-vedinī medinī |

(Mount Abu inscrip. no. 1, v. 66,  
*Ep. Ind.*, Vol. VIII, p. 213.)

(33) Tirtha deva-hrade tena kṛitam prāsāda-pañchakam |

Sviyam tatra dvayam jātam yatra śaṃkara-keśavau ||

(Sihawa stone inscrip. of Karnaraja,  
v. 9, *Ep. Ind.*, Vol. IX, p. 186.)

(34) Sri-nemiśvarasya nirākṛita-jagad-vishādaḥ prāsādaḥ samuddadhre  
— Erected the temple of Nemiśvara which (temple) has removed the  
sorrows of the world.—(The Chahamanas of Marwar, no. xxv, Nādlāi stone  
inscrip. of Raṇaviradeva, line 15 f., *Ep., Ind.*, Vol. xi, p. 64.)

(35) Esha bhagavato varāha mūrter jagat-parāyaṇasya nārāyaṇasya  
śilā-prāsādaḥ sva-vishaye'sminn Airiḱiṇe kāritaḥ ।

‘ This stone temple of the divine (god) Nārāyaṇa, who has the form  
of a boar (and) who is entirely devoted to (the welfare of) the universe,  
has been caused to be made in this in his own vishaya of Airiḱiṇa.’—  
(Eran stone Boar Inscrip. of Toramana, line 7, *C. I. I.*, Vol. iii, F. G. I.,  
no. 36, pp. 160, 161.)

(36) Nānā-dhātu vichitre gopāhvaya-nāmni bhū-dhare rāmye kāri-  
tavān śaila-mayaṁ bhānoḥ prāsāda-vara-mukhyam ।

‘ Has caused to be made, on the delightful mountain which is feckled  
with various metals and has the appellation of Gopa, a stone temple, the  
chief among the best of temples of the Sun.’

Tāvad giri-mūrdhni tishṭhati śilā-prāsāda-mukhyo rāmye—‘ so long  
(this) chief of (stone)-temples shall stand upon the delightful summit of  
the hill.’—(Gwalior stone inscrip. of Mihirakula, lines 6, 8, 9 ; *C. I. I.*, Vol. iii,  
F. G. I., no. 37, pp. 162, 163, 164.)

(37) Tenochchair bodhimaṇḍe śaśi-kara-dhavalāḥ sarvvato maṇḍapena ।  
Kāntaḥ prāsāda esha smara-bala-jayinaḥ kārīto loka-śāstuh ॥

‘ By him this beautiful mansion of the Teacher of mankind, who over-  
came the power of (the god) Smara, dazzling white as the rays of the moon  
with an open pavilion on all sides, has been caused to be made at the  
exalted Bodhimaṇḍa.’

Bodhimaṇḍa is also called Vajrāsana, the throne under the Bodhi-tree  
at Bodh-Gaya, on which Buddha sat when attaining Bodhi or perfect wis-  
dom. The word ‘Kānta’ here might have a technical architectural  
meaning. In the *Mānasāra*, the names of the buildings of various storeys  
generally end with ‘kānta,’ e. g., meru-kānta, hima-kānta, etc. ; so also  
the names of the columns, e.g., Brahma-kānta, Viṣṇu-kānta, etc.—  
(Bodh-Gaya inscrip. of Mahanaman, lines 10, 11, *C. I. I.*, Vol. iii, F. G. I.,  
no. 71, pp. 276, 278, 275, and Sanskrit and Old Kanarese inscrip. no. 166,  
Bodh-Gaya inscrip. of Mahanaman, line 10 f., of A. D. 588, 589, *Ind. Ant.*, Vol.  
xv, pp. 358, 359, 357, c. 1, para. 2.)

(38) Adbhutaḥ sirha-pāniya-nagare yena kāritaḥ ।

Kīrtti-stambha ivābhāti prāsādaḥ pārvvatī-paṭṭh ॥

‘ In the town of Sirhapāniya he caused to be built a wonderful temple  
of the Lord of Pārvatī, which shines like a column of fame. (Sasbahu  
inscrip. of Mahipala, v. 11 ; *Ind. Ant.*, Vol. xv, pp. 37, 42.)

(39) Sa prāsādam achīkarad divishadāṁ kedāra-devasya cha ।  
 'He caused to be built a temple of the inhabitants of heaven and of the god Kedāra.'—(Gaya inscrip. of Yakshapala, v. 12, *Ind. Ant.*, Vol. xvi, pp. 65, 66.)

(40) Vejarnto pāsāde (prāsāda)—'Vaijayanta, the palace (of Indra).'  
 (Bharaut inscrip. no. 79, *Ind. Ant.*, Vol. xxi, p. 233.)

(41) Nāyaka-śrī-hari-rāja-devo Ha(hā)ṭakeśvarasya prāsādāṁ kṛtam—  
 'The temple of Hāṭakeśvara (Śiva) was founded by Nāyaka (leader) the illustrious Harirāja.'—(Nāgpur Museum stone inscrip. of Brahmadeva of Rāyapura, lines 9-12, *Ind. Ant.*, Vol. xxii, p. 83.)

(42) Mahā-lakshmī-deviya prāsādavam geyada Viśvakarma-nirmmita-subhāsitan—'built the temple of the goddess Mahālakshmī, as if a creation of Viśvakarma.'—(*Ep. Carnat.*, Vol. v, Part I, Hasan Taluq, no. 149, Roman Text, p. 86.)

The above-mentioned inscription (dated conjecturally A. D. 1113) ends with the following passage apparently quoted from a book for sculptors and architects (gṛiha-vāstu) :

'Vimāna-sarvvato-bhadrā-vṛishabha-nalinika-uttuṅga-virāja-garuḍa-  
 varddhamāna-śākhā-vṛitta-pushpaka-gṛiha-rāja-svasti.'

(*Ibid.*, Text, p. 9, last 3 lines.)

(43) Prāsāda-mālābhīr alamkṛitāṁ dharāṁ vidāryyaiva samutthitam ।

Vimāna-mālā-sadṛīṣāṁ yatra gṛihāṁ pūrṇendu-karāmalam ॥

'Here cleaning as under the earth, there rise up houses which are decorated with succession of storeys ; which are like rows of aerial chariots (and) which are as pure (white) as the rays of the full moon.'—(Mandasar stone inscrip. of Kumaragupta, line 7, *C. I. I.*, Vol. iii, F. G. I., no. 18, pp. 81, 85.)

(44) Svargārtham kṛtavān pratāpa-nṛpatiḥ sadyoshito-retayoh prāsā-  
 dāṁ vasu-patra-padma-sadṛīṣāṁ śrīṅgāshṭakāḥ śobhitam ।

The inscription is 'on a slab in the wall near the southern door of a temple of Vishṇu close to the royal palace in Kāṭmaṇḍu. This temple is apparently the building mentioned in the inscription (quoted above). It is an octagon, and has three storeys.'

The plan of the temple is like a lotus of eight leaves (Vasu-patra-padma-sadṛīṣā).—(Inscrip. from Nepal, no. 18, inscrip. of Pratāpamalla, v. 10, *Ind. Ant.*, Vol. ix, pp. 188, 187, 189, c. 2, para 2.)

(45) Dig-bhāgāntara-sanniveśita-chatur dvāraḥ sukhārohaṇaḥ paśchād  
 ramya-suvarṇa-ketana-tala-nyasta-tri-śūlo'ntaraḥ ॥

Sauvarṇojjala-kumbha-patra-paṭala-prodbhāsītāśū-mukhaḥ prāsādo  
 dīśātād abhīpsita-sadāvāsa-prasakto mudah ॥

(Inscrip. from Nepal, no. 23, *Ind. Ant.*, Vol. ix, p. 194.)

- (46) Grāma-nagara-kheḍa-kharvaḍa - maḍam̄ba-droṇamukha-paṭṭanaṅgalim̄dam aneka-māṭa-kuṭa-prāsāda-devāyatanaṅgali-dam oppuva-agrahāra-paṭṭanaṅgalim̄dam atisayavappa . . . !

'At Teridaḷa, a merchant town situated in the centre and the first in importance among the twelve (towns) in the glorious Kuṇḍi Three Thousand, adorned with—villages, towns, hamlets, villages surrounded by hills, groups of villages, sea-girt towns and chief cities, with elegant mansions, palaces and temples, and with shining agrahāra towns in the country of Kuntala.'—(Old Canarese inscrip. at Terdal, line 58, *Ind. Ant.*, Vol. xiv, pp. 19, 25.)

- (47) 'Prāsādam Keśavasya sphuṭa-ruchi-kalaścāñichayat kāñchanena  
1309.'  
'Prāsādam Keśavasya sthira-kalaśa-yutaṁ kārayāmāsa divyaṁ  
1659' !  
'Prāsādam Keśavasya sthira-kalaśa-yutaṁ Najñayāryo vyatānit  
1697' !

Mr. Rice has translated 'prāsāda' in all these three instances by 'tower', although the term means primarily temple here.—(*Ep. Carnat.*, Vol. v. Part I; Belur Taluq, nos. 63, 64, 65; Roman Text, pp. 135, 136; Transl., p. 59.)

(48) 'Causing a tower (prāsāda), decorated with carvings and figures (chitra-vichitra-patra-nūtamam prāsādamaṁ), to be erected of stone, and a golden kalaśa to be made for the pinnacle of the temple (devālayāgrake), he in many ways increased his fame in the world.'—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 242; Transl., p. 139, para. 6; Roman Text, p. 247, last four lines.)

- (49) Kāśyāṁ viśveśvara-dvāri hima-dīśi kharopamam |  
Padmeśvarasya devasya prāsādam akarot sudhīḥ |

'On the north side of the entrance to the Viśveśvara temple at Kāśī built a solid and lofty temple of the god Padmeśvara (Viṣṇu)' on A. D. 15th May, 1296.—(*Sharqi Arch. of Jaunpur*, inscrip. no. xxvi, v. 3, *Arch. Surv.*, New Imp. Series, Vol. I, p. 51.)

- (50) Vāpi-kūpa-taḍāga-kuṭṭīma-maṭha-prāsāda-satrālayān |  
Sauvarṇa-dhvaja-toraṇāpaṇa-pura-grāma-prapā-maṇḍapān |  
Vyadhāpayad ayaṁ chaulukya-chūḍāmaṇiḥ |

(Sridhara's Devapattana Prasasti, v. 10,  
*Ep. Ind.*, Vol. II, p. 440-441.)

(51) In the Buddhist literature buildings are divided into five classes (pañcha-lenāni)—vihāra (monastery), ardha-yoga (stated by the commentator Buddhaghosa to imply 'suvārṇa-vaṅga-griha,' a type of two-roofed buildings, partly religious and partly residential), prāsāda (wholly

residential storeyed buildings), harṃya (larger type of storeyed buildings), and guhā (underground buildings).—(Vinaya Texts, *Mahāvagga* 1, 30, 4, p. 73-74 : *Chullavagga*, vi, 1, 2, p. 158.)

The commentator Buddhaghosa does not explain 'prāsāda' quoted above from the Vinaya Texts ; he simply says 'prāsādo iti dīgha-pāsādo.' According to Rhys Davids 'prāsāda' is 'a long-storeyed mansion, or the whole of an upper storey, or the storeyed buildings' (cf. his transl. of *Mahāvagga*, p. 173 ; *Chullavagga*, p. 151, note 2). Sir M. William seems to explain (in his dictionary) this 'prāsāda' by 'the monks' hall for assembly and confession.'

*Cf.* satta-bhūmika-prāsāda—'buildings of seven storeys in height.'

(*Jāṭaka*, 1, pp. 227, 346 ; v, pp. 52, 426 ; vi, p. 577.)

From the illustrations given above, it is clear that the term 'prāsāda' implies both religious and residential buildings. It denotes the gorgeous temples as well as small pavilions (maṇḍapa) where a deity or the emblematical phallus of Śiva is installed. It includes magnificent palaces and smaller residences. It implies a succession of storeys, and a tower, 'a lofty seat or platform for spectators, a building erected on high foundations and approached by means of steps, a building consecrated to a deity or inhabited by a prince, a temple, a palace, and the assembly room and confessional hall of the Buddhist priesthood.'

PRĀSĀDA-TALA—Floor, roof.

(*Buddhist Suttas*, by Rhys Davids, p. 262.)

PRĀSĀDA-MĀLIKĀ—A class of buildings.

(*Kāṃikāgama*, XLV, 4 ; see under MĀLIKĀ.)

PRIYA-DARŚANA—One of the five Indian orders.

(*Suprabhedāgama*, XXXI, 65, 67 ; see under STAMBHA.)

PREKSHĀGĀRA—An amphitheatre.

Sata-kumbhamayaṃ divyaṃ prekshāgāraṃ upāgatam ।

(*Mbh. Ādiparvaṇ*, see under RAṄGA and compare *Bharata Nāṭya-śāstra*, 11, 7, 13, 25.)

PREKSHĀ-GRĪHA(-MAṆḌAPA)—Auditorium in a theatre, the front room or pavilion facing a shrine wherefrom the deity is seen.

(*Ibid.*, II, 7, 13.)

In theatre proper it should be semi-circular, quadrangular and triangular :

Prekshā-grīhāṇāṃ sarveśhāṃ tri-prakāro vidhiḥ smṛitaḥ ।

Vikṛiṣṭaś-chaturaśraś-cha tryaśraś-chaiva prayukṛibhiḥ ॥

(*Ibid.*, II, 25.)

In large theatres, attached to temples it should be semi-circular, in middle-sized ones attached to palaces it should be quadrangular, and in ordinary small theatres for the general public it should be triangular.—  
(*Bharata Nāṭya-śāstra*, II, 26.)

Iha prekshā-grihaṁ dṛṣṭvā dhimatā viśvakarmaṇā |

Trividhaḥ sanniveśāścha Śāstrataḥ parikalpitaḥ ||

~Vikriśṭaś-chaturasraś-chaiva tu maṇḍapaḥ |—(*Ibid.*, II, 7-8.)

**PREKSHA-NIVEŚANA**—The auditorium of a playhouse (*Bharata Nāṭya-śāstra*). See details under NĀṬYAGRIHA.

**PROSHṬHA**—A high and broad bench with moulded and turned legs (*R.-V.*, VII, 55, 8; *A.-V.*, IV, 5, 3; *Taitt. Brā.*, II, 7, 17, 1), long timber seats fixed against walls, combinations of a settee and a coffer.

**PLAKSHA-DVĀRA**—A back-door, a side-door, a private entrance.  
(*Matsya-Purāṇa*, Chap. CCLXIV, v. 15; see under UDUMBARA.)

PH

**PHAṆA**—A hood in connexion with the joinery.

(*M.*, XVII, 134; see SANDHI-KARMAN.)

**PHALAKĀ**—A plank, a moulding, an architectural member, the abacus, a leaning board.

(*Mahāvagga*, v, 10, 2.)

(1) A plank : cf. pralamba-phalakā (*M.*, XII, 125).

A member of the column (*M.*, XV, 50, 51, 83, 185, etc.).

In connexion with the arch (toraṇa) :

Nāṭikā phalakā musṭi-bandhanaṁ patra-vallikam |

(*M.*, XLVI, 65.)

(2) See also *M.*, L, 66, 74; LXV, 161, 162; LXVII, 16, etc.

Pādāshtārnśa-śhaḍ-arnśaika-phalakaiś chhādayet paritaḥ ||

Kāya-pādāntaraṁ chhādyarṁ phalakaiḥ sūra-dārujaiḥ ||

(*Kāmikāgama*, LIV, 24, 30.)

(3) A part of a column (*Suprabhedāgama*, XXXI, 58; see under STAMBHA).

**PHALAKĀSANA**—A synonym of the bedstead.

(*M.*, III, 11; see under PARYAṆKA.)

**PHĀLA-PATṬA**—Front plate, a plough-share-like moulding.

(*M.*, XLIX 93.)

**PHELĀ** (cf. CHHELĀ)—The vault of the foundation pit.

(*Kāmikāgama*, XXXI, 74-75; see under CHHELĀ.)

## B

**BANDHA**—Joining or folding together, a band, the foundation.

Dvāv-aratnīm tri-padīm vā pāde bandhaṁ kārayet—'Foundation shall be 2 aratnis by 3 pādas.'—(*Kauṣīliya-Artha-śāstra*, Chap. LXV, p. 166.)

**BA(VA)LĀNAKA**—A raised platform or seat along the wall of the council hall of a temple.

Tejaḥ-pāla iti kṣhitimdu-sachivaḥ śamkhojjvalābhiḥ śilā-śreṇibhiḥ  
sphurad-imdu-ruchiraṁ nemi-prabhōr maṁdiram |

Uchchair maṁḍapam agrato jina-(vara)-vāsa-dvipaṁ chāśataṁ  
tat-pārīveshu balānakam cha purato nishpādayāmāsivan |

It 'apparently is identical with Marāṭhi balām which according to the Dictionary of Molesworth and Candy means a raised seat along the walls of the gābhārā or Sabhā-maṁḍapa of a temple.' Dr. Lüders.—(Mount Abu inscrip. no. 1, v. 61, *Ep. Ind.*, Vol. VII, pp. 212, 200.)

**BALI(-I)KĀ(-A)**—A moulding of the entablature, the edge of a roof.

Mahā-bhāra-tulā-kāryā balikordhve viśeshataḥ ||

Tulā-balikayor madhye dvi-daṇḍam athavā punaḥ ||

Haṁsa-bhūta-balir vātha nidrā vā daṇḍa-mānataḥ |

Tri-pādodaya-yuktā vā vidheyā vājanopari ||

(*Kāṁikāgama*, LIV, 13, 16, 20.)

**BALI-PĪṬHA(-KA)**—The seat of sacrifice, an altar for offerings.

(1) Brishabhasyopari-bhāge tu kalpayed bali-pīṭhakam |

Gopurasya bahir vāpi sthāpayed antar vāpi bali-pīṭhakam |

Antar maṇḍala-deśe tu pūrvavat bali-pīṭhakam |

(*M.*, XXXII, 99, 100, 133.)

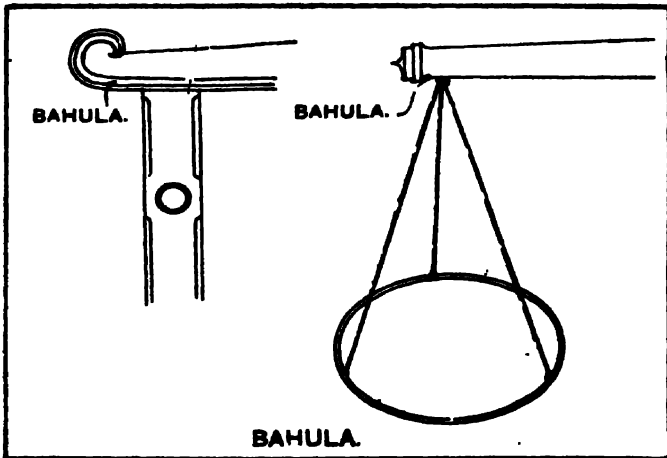
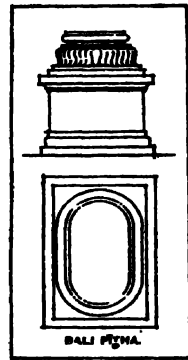
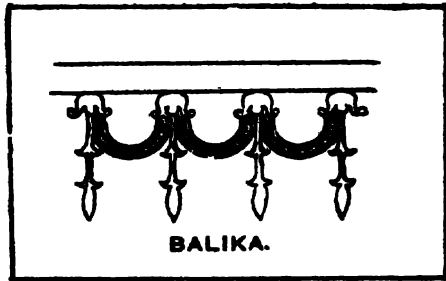
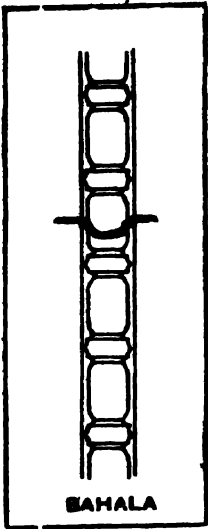
(2) Śrīmat-saundara-pāñcha-rātra-vidhiyīm nirmāṇamaṁ mādisi |

Śrīmantaṁ bali-pīṭhamaṁ pramudadiṁ viprārggalam mādisi ||

'Caused a bali-pīṭha to be erected according to the rule of the (*Śilpa-śāstra*) Pañcharātra.'—(*Ep. Carnat.*, Vol. V, Part I, Bclur Taluq, no. 8 ; Roman Text, p. 105 ; Transl., p. 46.)

(3) 'There he enlarged the Kalideva-maṇḍapa, and re-established the bali-pīṭha.'—(*Ep. Carnat.*, Vol. V, Part I, Arsikere Taluq, no. 22 ; Transl., p. 119, largest para., last line.)

(4) 'There are also fragments (or inscriptions) belonging to the time of Rājarāja I, and Rajendra-Chola I, on a maṇḍapa to the west of the bali-pīṭha.'—(Notes on Tiruvellarai inscrip., *Ind. Ant.*, Vol. XXXIV, p. 264, para. 5, line 10 f.)







(5) 'Haridāsa-Rāūta, . . . set up in front of the god Prasanna-Mādhava of Belur, a festival (utsava) maṅṭapa, a pillar for lights (dīpa-mālcya-kambha), and an altar for offerings (balli-piṭha, i.e., bali-piṭha).'  
(*Ep. Carnat.*, Vol. iv, Nāgamaṅgala Taluq, no. 42 ; Transl. p. 124 ; Roman Text, p. 213.)

**BASADI** (*see* VASATI)—A Jain temple, a shrine, a monastery, modern Basti or slum quarters.

(1) Kadalalāya-basadi—Jaina temple of the Jaina goddess Kadalalāya.—(Anmakonda inscrip. of Prola, v. 9, *Ep. Ind.*, Vol. ix, pp. 262, 257.)

(2) 'And on the top of the rock to the south of the Badra tank of that mountain, Ganeyana Māra had the Pārśva-Jina vasati erected. This Jogavaṭṭige basadi, may it endure as long as sun and moon, protected by the pañcha-mahā-śabda (five words for Jain obeisance), and by unnumbered others.'

'Basadi' in the sense of Jaina temple is of frequent use in the volumes of *Ep. Carnat.* Its Sanskrit form is, of course, 'vasati' an instance of which should be noticed in the passage quoted above.—(*Ep. Carnat.*, Vol. xii, Pavugada Taluq, no. 52 ; Transl., p. 125, line 2 ; Roman Text, p. 206 f.)

(3) 'Being actuated by veneration, gave to the basadi of the Bhaḷārar . . five mattars (of land).'

'Basadi (means) a Jain temple ; the word is a Tadbhava corruption of the Sanskrit "vasati," abode, dwelling, a Jain monastery ; the modern form is "Basti." Dr. Fleet.—(Sanskrit and Old Kanarese inscrip., *Ind. Ant.*, Vol. iv, p. 181, c. 1, line 10, and footnote.)

(4) Purigeṛeyalu mādisid-Ānesejjeya-basadige . . .

'In the lands of Guḍigere, which . . . were under the control of the Jain temple called Ane sejjeya. . . built at Purigeṛe.'—(Guḍigere Jain inscrip., line 21, *Ind. Ant.*, Vol. xviii, pp. 39, 37.)

*See Ep. Carnat.*, Vol. II, inscriptions (i) on Chandra-giri, nos. 1-74, (ii) on Vindhya-giri, nos. 75-123 ; and (iii) in the town, nos. 124-144.

(5) 'Caused basadis and māna-stambhas to be erected in numerous places.'—(No. 38, Roman Text, p. 7, line 17 ; Transl., p. 121, line 5.)

(6) 'The basadi of his guru Śrī-rūpa-nārāyaṇa of Kollāpura.'—(No. 39 ; Roman Text, p. 7-8 ; Transl., p. 122, line 18.)

(7) 'The basadis of Gaṅga-vāḍi, however, many there were, he restored.'—(No. 45 ; Roman Text, p. 21 ; Transl., p. 126, line 12.)

(8) 'This Lakshmi, wife of Gaṅga senā-pati, the abode of all good qualities, had this new Jina temple (vasati) made.'—(No. 63 ; Roman Text, p. 59 ; Transl., p. 149.)

(9) 'The Daṇḍanāyaka Gaṅga had this basadi made for his mother Pochavue.'—(No. 64 ; Roman Text, p. 59 ; Transl., p. 149.)

(10) 'The bastis (basadinal) of Gaṅga-vāḍi, however many there were, he had renewed.'—(No. 90; *Rottian Text*, p. 72, line 10 from bottom upwards; *Transl.*, p. 158, para. 5.)

(11) 'He had these images of Bharata and Bāhubali Kevali, the basadis, and the side-doors of that tirtha made for beauty; . . . having erected eighty virgin (? new) basadis, and repaired two hundred (that were in ruins), he obtained glory, the general Bharata.'—(No. 115; *Roman Text*, p. 87; *Transl.*, p. 171.)

(12) 'He built a small basti on the lower hill; repaired three bastis at the north gate, (and) the Maṅgāyi basti, repaired the Hagalaya (a village to the south of Śrāvana Belgola)-basti, and made gifts for supplying food in one.'—(No. 134; *Roman Text*, p. 100; *Transl.*, p. 179.)

(13) 'And in Kellaṅgere he (also) made five large bastis and five beautiful ponds.'

'The money obtained from this place will be used for repairing the Ārchāri's and other dwelling and the basadis, for the worship and decoration of the god, and for gifts, of food to the people visiting the basadi and to the assembly of Rishis.'—(No. 137a; *Roman Text*, p. 104, lines 6, 9; *Transl.*, p. 182, paras. 5, 11.)

(14) 'Keep whatever you have obtained from the paddy lands and dry fields, together with the waste land, the firewood, leaves, decay of the basadi house and so forth, belonging to the endowments of Gommaṭa deva, Kamathā Pārśva deva, Śri-vallabha deva of Bhaṇḍāraiya's basadi, and principal basadis.'—(No. 137c; *Transl.*, p. 183.)

(15) 'And for the basadi which he had made . . . a small tank east of the basadi . . . '—(No. 144; *Transl.*, p. 187, line 9 from bottom upwards.)

(16) 'He made a grant of lands for the basadis of the Tri-kūṭa-basadi which he had caused to be erected in Arakoṭṭāra in the Enne-nād.'—(*Ep. Carnat.*, Vol. iv, Chāmarājnagara Taluq., no. 83; *Transl.*, p. 10.)

(17) 'He caused a basadi to be erected in Mūguli in Sige-nād, and setting up therein the god Pārśva, presented the basadi and land for the god to their guru.'

In this instance, it should be noted, the meaning of 'basadi' as a Jain temple is unquestionable.—(*Ep. Carnat.*, Vol. v, Part I, Hasan Taluk, no. 129; *Transl.*, p. 36.)

(18) 'Hoysaḷa-Gavuṇḍa, son of . . . in memory of his mother's death, erected a basadi, and in the presence of all the residents and farmers of the town, divided certain land (specified) equally to the basadi and the temple (basadigaṃ devālyakkam bhūmi samāna-vūgi basadige . . . ), washing the feet of Ahobala-Parṇḍita.'

The distinction made here between the basadi and the temple (*devālaya*) should be noted.—(*Ep. Carnat.*, Vol. iv, Kadur Taluq, no 69; *Transl.*, p. 13, para. 5; *Roman Text*, p. 45, last para., line 4 f.)

(19) ' Thus celebrated, Barhma-Deva, the Bhujabala-Gaᅅga Permmāᅇi-Deva, made the basadi, which Daᅇiga and Mādhava had formerly established on the hill of Mandali, and for which the kings of his Gaᅅga line had continued to provide the offerings, and which they had afterwards caused to be built of wood, the chief of all the basadis hitherto existing or in future to be established in the Eᅇadore-seventy of the Maᅇᅇali-Thousand, giving it the name of Paᅇᅇada-basadi (the Crown-basadi), and endowed it with certain lands (specified).—(*Ep. Carnat.*, Vol. vii, Shimoga Taluq, no. 4; *Transl.*, p. 8, para. 4.)

(20) ' The great minister, . . . , enlarged a tank, formed paddy fields erected a temple, and established places for distribution of water and food. And the basadi he built shone with big tank of Taᅇᅇkere surrounding it.'

' And for those two basadis of Nellavatti and Taᅇᅇkere, on the death of Jinadāsa as a reward of perᅇgaᅇe Nokkayya's boldness and liberality, Gaᅅga-Permmāᅇi-Deva granted the royal insignia of two horns, a canopy, chāmaras, and big drums.'

' And Gaᅅga-permmāᅇi-deva granted for the basadi the shop-tax and customs of Taᅇᅇkere.'—(*Ep. Carnat.*, Vol. vii, Shimoga Taluq, no. 10; *Transl.*, p. 11, last two paras., p. 12, paras. 2, 3.)

(21) ' For the maᅇhāᅇhipati of Bandanike was erected a maᅇᅇapa in front of the Sānti-Jina basadi.'—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 228; *Transl.*, p. 133; *Roman Text*, p. 232.)

(22) See both ' basti ' and ' basadi ' (in *Ep. Carnat.*, Vol. iii, Seringapatam Taluq, nos. 144, 146, etc.; *Transl.*, p. 34 and also in other volumes of *Ep. Carnat.* referred to above) and the sketches of bastis between pp. 50, 51 (Introduction, *Ep. Carnat.*, Vol. ii), and pp. 150, 151 (Translation), and compare the following from Fergusson :

' The principal group of the bastis of the Jains at present known at least above the ᅇhāts, is that of Śrāvana Belgola. There are there two hills—the Indragiri, on a shoulder of the other, called Chandragiri, stand the bastis, fifteen in number. As might be expected from the situation, they are all of the Dravidian style of architecture, and are consequently built in gradually receding storeys, each of which is ornamented with small simulated cells. . . . No instance occurs among them of the curvilinear sikᅇa (śikhara) or spire, which is universal with the northern Jains, except in the instance of Ellora.'

'The following wood-cut (photo no. 149) conveys, however, an idea of the general external appearance, which is more ornamental than that of northern Jain temples. The outer wall of those in the north is almost always quite plain. The southern ones are as generally ornamented with pilasters and crowned with a row of ornamental cells. Inside is a court probably square and surrounded by cloisters, at the back of which rises the vimāna over the cell, which contains the principal image of the Tirthankar. It always is surmounted by a small dome, as is universally the case with every vimāna in Dravidian architecture, instead of with the mysterious amalaka ornament of northern sikras (śikharas).'

'It may be a vain speculation, but it seems impossible to look at this wood-cut (no. 149), and not to be struck with its resemblance to the temples of southern Babylonia. The same division into storeys with their cells; the backward position of the temple itself; the panelled or pilastered basement, all these points of resemblance, it seems difficult to regard as purely accidental.'—(Fergusson : *Ind. and East. Arch.*, pp. 269-270.)

BA(VA)SUNDHARĀ—The earth, a type of pent-roof.

(*M.*, xviii, 177; see under LUPĀ.)

BAHALA (see BĀHULYA)—An extension, a projection, a sugar-cane-like moulding.

(1) Dvāra-tāre chatush-pañcha-śaṭ-saptāśṭa-vibhājite ||

Ekāśā(m) sūtra-paṭṭih syāt samam vā bahalaṁ bhavet |

Ardhaṁ vā pāda-hīnaṁ vā bahalaṁ parikirtitām || (2)

Śilayā cha mṛidā py-athavā taruṇā rachayed atha kuḍyaṁ ativa-dṛiḍham |

Tad ihottara-vistarataḥ sadṛīṣaṁ bahalaṁ kathitaṁ talipādi-yutam |

(*Vastu-vidya*, ed. Ganapati Śāstri, xiv, 1, 2; xv, 1.)

(2) In connexion with a pillar :

Aśṭāśāṁ yoga-vistāraṁ tad-ardhaṁ bahalaṁ bhavet |

(*M.*, xxxix, 59.)

(3) Stambha-vyāsa-samo(-maṁ) vā tad-ardhaṁ bahalaṁ (? bahu laṁ) bhavet ||

Kavāṭa-bahulaṁ proktaṁ dṛḍḍārdhaṁ vā ghaṇaṁ bhavet ||

(*Kārikāgama*, lv, 35, 38.)

It is clear from v. 38 that ghana or thickness is not to be confused with bahala or bahula.

BAHIR-AṄGA—The outer court, the external side of a building.

Athavā bahir-aṅge tu chesṭa-dig-viśṇor ālayam |

Anyacāṁ sarva-liṅgānāṁ nagarāt bahir-aṅgataḥ |

(*M.*, ix, 257, 402.)

**BAHIR-JANMAN**—The outer plinth (*see M.*, LXIX, 16, 17, under **ANTARJANMAN**).

**BAHIR-BHITTI**—The outer wall, an outside partition.

Antar-vapraṁ bahir-bhittiḥ śreṣṭhaṁ dīrgaṁ cha chūlikā(-am) ।

(*M.*, IX, 361, etc.)

*Cf.* **ANTARBHITTI**.—(*See M.*, XL, 51, 52.)

**BAHIR-MUKHA**—With face towards the outside, projecting outward.

In connexion with foundations :

Gṛiha-garbham antar-mukhaṁ syād gīama-garbhaṁ bahir-mukham

(*M.*, XII, 216.)

**BAHU-MANḌAPA** (*cf.* **MUKHA-MANḌAPA**)—A kind of group pavilion.

Devālayeshu sarveshu saṁmukhe bahu-maṇḍapam ।

(*M.*, XXXIV, 33)

The pavilion in front of a temple is generally called **Mukha-maṇḍapa**.

**BAHU-LIṄGA**—A kind of phallus, phalli in group.

(*M.*, LI, 75, 77, 72, etc. ; *see* under **LIṄGA**.)

**BAHULA**—An architectural member of the balance, the extended part of the scales outside the holes through which the scales are joined with the beam by strings.

Tad(jihvāgra)-ardham bahulaṁ kuryāt tan-mūle chhidra-saṁyutam ।

(*M.*, L, 184.)

**BĀLA-PARYAṆKA** (*see* **PARYAṆKA**)—A small bedstead, a couch.

**BĀHYA-ŚĀLĀ**—Outer rooms, external portion of mansions (*see* under **ANTAḤ-ŚĀLĀ**).

**BĀHYA-SĀLA**—Outer walls, external wall (*see* under **ANTAḤ-ŚĀLA**).

**BĀHULYA** (perhaps for **BAHALYA**, *see* **BAHALA**)—Abundance superfluity, extension, hence projection.

(1) **Stambha-samaṁ bāhulyam**—**bāhulya** is equal to the column.

(*Bṛihat-Saṁhitā*, LIII, 30.)

**Vistāra-pāda-pratimaṁ bāhulyaṁ śākhayoḥ smṛitam**—the projection of the two door-frames is equal to nearly one-fourth of the breadth (of the door).

(*Ibid.*, LVI, 13.)

Kern translates 'bāhulya' by thickness, which does not suit at least to the first instance (*see* *J.R.A.S.*, N. S., Vol. VI, pp. 285, 318.)

(2) Vistāra-pāda-pratimaṃ bāhulyaṃ śākhayoḥ smṛitam |

(*Matsya-Purāṇa*, Chap. CCLXX, v. 20, same as no. 2 above.)

(3) Vistārārdhena bāhulyaṃ sarveśhām eya kīrtitam |

(*Agni-Purāṇa*, Chap. CIV, v. 29.)

**BIMBA**—An idol, an image.

(*M.*, LI, 22 ; LXVIII, 1, etc.)

Nirmmitaṃ śānti-nāthasya bimbakaṃ—'image of Śānti-nātha was made.'—(Honwad inscrip. of Someśvara I, line 30, *Ind. Ant.*, Vol. XIX, p. 273.)

**BI(VI)RA-GALA** (also **BIRAGAL** or **BIRAKAL**, *see* **VĪRA-ŚĀSANA**)—Monuments set up in memory of a hero at first, and this honour is next extended to any one who dies after having done some good work ; lastly, it implies a simple memorial monument, resembling perhaps the pagoda-shaped maṭhas, constructed by the relatives and admirers of the departed ; a monumental stone erected in memory of a warrior.

(1) But her son Pilleya-Nāyaka (after her death) performing the further ceremonies, set up this bīragal in the presence of the god Honneśvara and made a grant of land (specified) for the offerings to the god Honneśvara and for carrying on the worship of the bīragal washing the feet of Janneyaguru. That Janneyaguru and his successors will carry on the worship of that bīragal we most firmly believe.'—(*Ep. Carnat.*, Vol. VII, Shimoga Taluq, no. 62, last four lines ; Roman Text, p. 42 ; Transl., nos. 61-62, p. 24, line 4 f.)

(2) 'His younger brother Channappa put up this bīra-kallu for him.' 'Her junior uncle Chenna put up this bīragal.'—(*Ep. Carnat.*, Vol. VII, Shikarpur Taluq, nos. 1, 2 ; Transl., p. 39.)

(3) 'A grant of land (specified) was made for maintaining the worship and ceremonies of this bīragal.'—(*Ep. Carnat.*, Vol. VII, Honnati Taluq, no. 117 ; Transl., p. 178.)

(4) 'And killing many who opposed him, he did his duty to his lord and gained the world of gods. His brother-in-law with his son and daughter, set up this vīra-śāsana for him.'—(*Ep. Carnat.*, Vol. VII, Shikarpur Taluq, no. 144 ; Transl., p. 107 ; Roman Text, p. 191.)

**BUDDHA**—'A being who by his own force has attained to possession of the highest knowledge. He is neither man nor god. He is able to perform certain wonders in accord with the laws of nature. In an endless series of existences the Buddha prepares himself for his

state of Buddhahood. During the whole of this time he is called a Budhisattva till in his last existence as a man he attains to knowledge (bodhi).<sup>3</sup>

(*Mahāvāṅsa*, W. Geiger, pp. 292-293.)

**BUDDHA-PĀDA**—The sacred footprint of Buddha, found in many places in Northern India, Indo-China, Siam and other places: analogous to the Ratna-pāda of Samantakuṭa of Ceylon; but the Buddhapāda of Sukhodaya in Siam is more elaborate and artistic; on the centre of the footprints are engraved two wheels (*chakra*), each containing six circles wherein are marked 108 signs. These signs are stated to represent the past, present, and future universe.

(See Plate LXVIII, p. 242, *Le Siam Ancien*, I, by M. Fournereau, quoted by P. N. Bose in his *Indian Colony of Siam*, pp. 64-65.)

The footprint of Buddha, otherwise called Śrīpāda and Ratna-pāda. It is seen in many places in Northern India, Ceylon, Indo-China, and Indian Archipelago. The one in Siam at Sukhodaya is described in detail in a Pali inscription of A. D. 1427 (*vide* Plate LXVIII, Fournereau, I, p. 242). It was carved after the pattern of the Śrīpāda at Samantakuṭa in Ceylon, and bears the same measurement, but more artistic in look and workmanship. On these footprints are marked two discs (*chakra*) each containing six circles within which are marked 108 signs. Below the footprints are represented 80 monks standing in a procession with folded hands and inclined heads in the pose of worshipping.

**BUDDHI-SAMKIRṆA**—A pavilion with fifty pillars.

(*Matsya-Purāṇa*, Chap. COLXX, v. 9; see under MAṆḌAPA.)

**BṚIHATĪ**—The part of the body between the breast and backbone.

In connexion with the daśa-tāla measure:

Bṛihatī saptāṁśakam kaksha-tāram samāyatam |

Bṛihatī stana-sīmāntam sārḍha-dvir-ashṭa mātrakam |

(*M.*, LXV, 162-163.)

**BERA**—An idol or image.

(*M.*, LI, 17, 25; LXVII, 3, etc.)

‘Created the temple of Chāmarājesvara together with new images (vera).’—(*Ep. Carnat.*, Vol. IV, Chāmarājnagar Taluq, no. 86; Roman Text, p. 18, line 9 f.; Transl., p. 11.)

**BODHIKA(-Ā)** (also VODHIKA, see MAṆḌI)—The capital of the column (*M.*, xv, 40, 44, etc.), the crowning member of the capital;



this is placed upon the abacus (phalakā) and under the table of cornices. It may be identified with the carbel which in European architecture is a block of stone projecting from a wall and supporting the beams of a roof or any weight.

(See *Dravidian Arch. Jouveau Dubreuil*, ed. Aiyangar, p. 26.)

(See *Suprabhedāgama* XXXI, 107, 57 under STAMBHA.)

Cf. Bodhikarṇ mushṭi-bandham cha phalakā tāṭikā ghaṭam ।

(*M.*, XLVII, 18, etc.)

See the photographic views of the Corinthian capitals from Jamalgiri (Fergusson : *Hist. of Ind. and East. Arch.*, p. 173, figs. 94, 95).

See Buddhist Cave Temples (fig. no. 21, *Arch. Surv.*, New Imp. Series, Vol. IV, p. 62 ; Vol. XLI, figs. 1, 2, 3, 4, 5, 6).

**BODHI-GRĪHA**—A temple for the Bodhi-tree.

(W. Geiger, *Mahāvamsā*, p. 296.)

**BODHI-MANḌA**—A raised terrace near a temple, the miraculous throne under the Bodhi-tree at Gaya also called Vajrāsana or diamond throne.

Tenochchair Bodhi-manḍe śaśi-kara-dhavalah sarvvato maṇḍapena kāntah prāsāda esha smare-bala-jayinah kārito loka-śāstuh ।

‘By him this beautiful mansion of the Teacher of mankind, who overcame the power of (the god) Smara, dazzling white as the rays of the moon, with an open pavilion on all sides has been caused to be made at the exalted Bodhi-manḍa.’

‘Bodhi-manḍa is the name of the miraculous throne under the Bodhi-tree at Bodh-Gayā, also called the vajrāsana or diamond throne, on which Buddha and his predecessors sat, when attaining bodhi or perfect wisdom. And Professor Childers, in his *Pāli Dictionary*, added that he inferred that the term was also applied to the raised terrace built under the Bodhi-tree within the precincts of any Buddhist temple, in imitation, presumably, of Buddha’s throne. This, rather than the throne itself, seems to be its meaning in the present inscription.’—(Sanskrit and Old Kanarese inscrip. no. 166, Bodh Gaya inscrip. of Mahanaman, line 10 f., *Ind. Ant.*, Vol. xv, pp. 358, 359, 357, c. 1, 2.)

**BETTA**—One of the two classes of the southern Jain architecture, the other is known as Basadi or Vasati. Bettas are courtyards usually on a hill or rising ground, open to the sky and containing images of Gomata or Gomateśvara.

**BAUDDHA**—Belonging to the Buddhists or Buddha, the Buddhist images.

*Mānasāra* (Chap. LVI, named Buddha, 1-18) :

Like all other images, the Buddhist images also are made of wood, stone or iron (line 14). Their pedestals are made of the three kinds of ābhāsa (marble or glass), of earth and of gravel, etc. (lines 15-16). They are also both stationary and movable (line 14). They are made in the erect or sitting posture and placed on the throne (lines 3-4), and are furnished with the *peepul* tree and the wonder-tree (Kalpavṛkṣha). They have two arms, two legs, and two eyes (that is, one face) (line 10). They are measured in the large type of the daśa-tāla system (line 17). They are pure white in colour (line 5). Their garment is yellow (line 12), face large (line 5), ears long (line 6), eyes smiling at the corner (line 6), chest gracefully broad, arms long (line 10), belly large and round, and the body fleshy (line 8). They are furnished with shining top-knots (ushnīshojj-vaḷa-maulika) (line 10).

**BRAHMA-KĀNTA**—A class of pillars, a type of storeyed buildings a class of gate-houses.

The square columns with four minor pillars :

Chatur-aśraṃ brahma-kāntaṃ syāt 1.—(*M.*, xv, 20.)

Vedopapāda-saṃyuktaṃ brahma-kāntam īritam 1.—(*Ibid.*, 244.)

A class of the three-storeyed buildings.—(*M.*, XXI, 39-40 ; see under PRĀSĀDA.)

A class of the five-storeyed buildings.—(*M.*, XXIII, 41-42 ; see under PRĀSĀDA.)

A class of gate-houses.—(*M.*, XXXIII, 558 ; see under GŌPURA.)

**BRAHMA-GARBHA**—The foundations of temples (of Brahmā).

(*M.*, XII, 142-152 ; see under GARBHA-NYĀSA.)

**BRAHMA-DVĀRA**—The door in the middle or central part of an object.

Brahma-dvāra-patākādyair aṅgair yuktam vimānakam 1

(*Kāṃikāgama*, I, 93.)

Brahma-dvāram iti proktaṃ vimānānāṃ sanātanam 1

(*Ibid.*, LV, 155.)

Brahma-dvāraṃ tato madye maṇḍapaṃ koṣṭhake matam 1

(*Ibid.*, LV, 197.)

**BRAHMA-PADA**—The central part, the plot at the centre of a design.

(*M.*, XL, 73 ; LI, 165, etc. ; see under PADA-VINYĀSA.)

**BRAHMA-BHITTI**—The middle wall.

Athavā brahma-bhittau vā garbhādhānaṁ vidhīyate ।

(*Kāmikāgama*, xxxv, 46.)

**BRAHMA-MANḌALA**—The central part of a village or town.

(*M.*, ix, 128; see under GRĀMA.)

**BRAHMA-MANDIRA**—A type of rectangular building.

(1) *Agni-Purāṇa* (Chap. civ, vv. 16–17; see under PRĀSĀDĀ).

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21–22, 26–27; see under PRĀSĀDA.)

**BRAHMA-MASTAKA**—A kind of joinery.

(*M.*, xvii, 149; see under SANDHI-KARMAṆ.)

**BRAHMA-VĀHANA**—The riding animal of Brahmā, the goose.

The measures and description of the goose (*M.*, lx, 4–46; see under VĀHANA.)

**BRAHMA-STHĀNA**—The central part of a village or town, where a public hall is built for the assemblage of the inhabitants.

(*M.*, xii, 142; see under GRĀMA.)

(1) Brahma-sthāne sabhādīni kalpayed vidhinā budhaḥ ॥

Brahma(-me) vā madhyame bhāge pīṭhaṁ parikalpayet ॥

(*Kāmikāgama*, xxviii, 15, 18.)

(2) ‘Senai . . . assigned (one) paṭṭi of land in the neighbourhood, to last as long as the moon and the sun, for his own merit (and) for the meritorious purpose of supplying to the Brahma-sthāna in this village water during six months and firepans (agnishṭhā) during six months and of constructing a water-lever in front of the maṇḍapa.’—(Inscrip. of Aditya II, no. 14, lines 1–2, *H. S. I. I.*, Vol. iii, pp. 21–22.)

(3) ‘We the great assembly of Maṇimaṅgalam . . . being assembled without a vacancy in the assembly, in the Brahma-sthāna in our village.’—(Inscrip. of Rajadhiraja, no. 28, line 7, *H.S.I.I.*, Vol. iii, p. 57.)

(4) ‘We the great assembly of Maṇimaṅgalam . . . being assembled, without a vacancy in the assembly, in the large maṇḍapa (of) the Brahma-sthāna of our village.’—(Inscrip. of Virarajendra I, no. 30, line 36, *H. S. I. I.*, Vol. iii, p. 70.)

**BRAHMĀṅGAṆA**—The central courtyard.

(See *Kāmikāgama*, under AṅGAṆA.)

**BRAHMĀMSA**. (see BRAHMA-STHĀNA)—The central part of a village or town, where a public hall is generally built.

## BH

**BHAKTA**—A devotee, a faithful worshipper, a class of sages.

Description of their images (*M.*, Chap. LIX, 1-100 named Bhakta) :

The devotees are divided into four classes, namely Sālokya, Sāmīpya, Sārūpya, and Sāyujya (lines 3-4). The Sālokyas are those who specialize in devotion, knowledge and renunciation (*vairāgya*) (line 5). The Sāmīpyas specialize in knowledge and renunciation (line 6). The Sārūpyas are distinguished as those who are devoted to the meditation of God (line 7). And the Sāyujyas are those who have acquired the true knowledge (of God) and are aware of the final beatitude (*paramārtha*) (line 8).

The limbs of the Sālokya class of great men are measured in the largest type of the nava-tāla system (line 9). The Sāmīpyas are measured in the smallest type of the daśa-tāla system (line 10). The Sārūpyas are measured in the intermediate type of the daśa-tāla system (line 11). And the Sāyujyas are measured in the largest type of the daśa-tāla system (line 12).—(For details of these measures, see TĀLA-MĀNA.)

**BHAṄGA**—A pose in which an image is carved.

There are four bhaṅgas or poses, namely, sama-bhaṅga, ābhaṅga, ati-bhaṅga (*M.*, LVII, 98), and tri-bhaṅga (*ibid.*, 125).

‘In this (sama-bhaṅga) type the right and left of the figure are disposed symmetrically, the sūtra or plumb-line passing through the naval, from the crown of the head to a point midway between the heels. In other words, the figure whether seated or standing, is poised firmly on both legs without inclining in any way to right or left. Images of Buddha, Sūrya (sun) and Viṣṇu are generally made to follow this scheme of rigid, vertical symmetry. The dispositions or attitudes of the limbs and organs on either side are made exactly similar, except that the mudrā or symbolical posing of the fingers is different.’

‘In such a (ābhaṅga) figure the plumb-line or the centre line, from the crown of the head to a point midway between the heels, passes slightly to the right of the naval. In other words, the upper half of the figure is made to incline slightly towards its right side, without inclining in any way towards either of the attendant deities. The Śaktis or attendant deities are two male and two female, in tri-bhaṅgas, placed on either side with their heads inclined inwards towards the principal figure. The figures on either side are exactly similar in poise, except that one is a reverse or reflex of the other. This is a necessary condition as otherwise one of the figures

would lean away from the central figure, and spoil the balance and harmony of the whole group.'

'A tri-bhaṅga figure had its head and hips displaced about one armā to the right or left of the centre line.'

'This (ati-bhaṅga) is really an emphasized form of the tri-bhaṅga, the sweep of the tri-bhaṅga curve being considerably enhanced. The upper portion of the body above the hips, or the limbs below, are thrown to right or left, backwards or forwards, like a tree caught in a storm. This type is usually seen in such representations as Śiva's dance of destruction, and fighting gods and demons, and is specially adapted to the portrayal of violent action, of the impetus of the Tāṇḍava dancing, etc.'—(Translated by S. Ray, *Modern Review*, March, 1914, p. 1 f.)

**BHADRA** (*cf.* SARVATO-BHADRA and MUKHA-BHADRA)—A moulding, a type of portico, the general epithet of chariots, a type of building, site plan of one-hundred and ninety-six square plots (*cf.* PADAVINYĀSA; *M.* VII, 17-18.)

(1) A moulding of the base (*M.*, XIV, 345; see the lists of mouldings under ADHIBHṬHĀNA).

A kind of portico :

In connexion with buildings of one to twelve storeys :

Ekam vā dvi-tri-daṇḍena nirgamaṁ bhadrām eva vā |

(*M.*, XIX, 56.)

*Cf.* MADHYA-BHADRA (*M.*, XIX, 177) :

Toraṇair niḍa-bhadrādi-mūle chordhve cha bhūshitam |

(*M.*, XX, 64.)

In connexion with pavilions (maṇḍapas) :

Chatur-dig-bhadra-vistāram eka-bhāgena nirgamaṁ |

(*M.*, XXXIV, 76.)

In connexion with mansions (śālās) :

Śālāyāḥ parito'lindam pṛiṣṭhato bhadrā-saṁyutam |

(*M.*, XXXV, 40.)

Dvi-chatur-bhāga-vistāram pārśvayor bhadrā-saṁyutam |

Pṛiṣṭhe cha dvyāika-bhāgena bhadrām kuryād vichakṣaṇam |

(*Ibid.*, 322-323.)

In connexion with chariots :

Chatur-dikshu chatur-bhadrām syāt |

Bhadra-madhye tu bhadrām syāt |

Yuktyā bhadrāḥ sarveṣām nāsikā-yuktam eva vā |

(*M.*, XLIII, 107-109.)

Bhadra is the general name for chariot (ratha) :

Nivāta-bhadra, Pavana-bhadra, Prabhañjana-bhadra, Nabhasvān-  
bhadra, etc.

(*M.*, XLIII, 111-115.)

In connexion with dolā (palanquin or hammock) :

Purato prishṭhato madhye parva (darpa)ṇaṁ bhadrasaṁyutam ।

(*M.*, I, 165.)

Chatur-dikshu sa-bhadraṁ vā chaika-dvyamśena nimnakam ।

(*Ibid.*, 284.)

(2) Āyataḥ syāt tribhir bhāgair bhadra-yukta-susobhanaḥ ।

(*Matsya-Purāṇa*, Chap. CCLXXIX, v. 5.)

(3) Maṇḍapasya chaturthāmśād bhadraḥ kāryyo vijānatā ॥

Maṇḍapās tasya kartavyā bhadrāis tribhir alaṅkritāḥ ॥

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 35, 39.)

A type of quadrangular building :

(4) *Agni-Purāṇa* (Chap. CIV, vv. 14-15 ; see under PRĀSĀDA).

(5) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 24-25 ; see under PRĀSĀDA).

(6) Vi-bhadrā vā sa-bhadrā vā kartavyā mālīkā budhaiḥ ॥

Sa-bhadrā vā vi-bhadrā vā khalūri syād yatheshṭataḥ ॥

(*Kāmikāgama.*, XXXV, 100, 106.)

Sālānanam prakartavyam eka-dvyamśa-vinirmitam ।

Tad-tad-agre prakartavyam vāre bhadrasya paśchime ॥

(*Ibid.*, XLV, 35.)

Chatur-dig-bhadra-saṁyuktam dvāra-jālaka-śobhitam ॥

(*Ibid.*, XLI, 26.)

A class of buildings (*Ibid.*, XLV, 41 ; see under MĀLIKĀ.)

BHADRAKA—The general name for chariots.

(*M.*, XLIII, 112-116 ; see under RATHA.)

BHADRA-PAṬṬA—A moulding of the base.

(*M.*, XIV, 345 ; see the lists of mouldings  
under ADHISHṬHĀNA.)

BHADRA-PĪṬHA—A type of pedestal of the phallus or an image.

(*M.*, LIII, 34 ; see under PĪṬHA.)

The pedestal of an image.—(*M.*, LIV, 129, 179.)

A state chair.—(*Mahāvagga*, v. 10, 2.)

**BHADRA-MANḌAPA**—A type of pavilion.

*Cf.* Maṇḍapaṁ bhadram ity-uktaṁ bāhya(dhānya)-nikshepa-yogyakam |

(*M.*, xxxiv, 190.)

*See* Bilvan ātheśvara inscrip. of Vira-champa (vv. 1, 2, 3, *Ep. Ind.*, Vol. III, pp. 70, 71 ; *see* under MAṆḌAPA.)

**BHADRA-ŚĀLĀ**—A type of hall, a front room, a drawing-room.

In connexion with the eight-storeyed buildings :

Netra-śālārdha-śālā cha bhadra-śālādi-bhūshitam |

(*M.*, xxvi, 67, etc.)

**BHADRĀSANA**—A kind of throne, a chair of state, a great seat.

(*M.*, xlv, 14, etc.)

**BHAVANA**—An abode, a residence, a dwelling, a site, a building, a mansion.

A kind of rectangular building :

(1) *Agni-Purāṇa* (Chap. civ, vv. 16–17 ; *see* under PRĀSĀDA.)

(2) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 21–22, 26–27 ; *see* under PRĀSĀDA.)

(3) Maṇḍapaṁ nava-talaṁ kuryād bhavanam anya-raṅgaṁ vādhi-maṇḍapākāram |

(*M.*, xi, 144.)

(4) Tenedaṁ Parameśvarsya bhavanaṁ dharmmātmanā kāritam . . . kaṇvāśrame |

‘ He, the pious minded, had his dwelling (temple) of the supreme Lord made, . . . in the hermitage of Kaṇva.’—(Kanaswa inscrip. of Śivagana, line 11 f., *Ind. Ant.*, Vol. XIX, pp. 58, 61.)

(5) Śubhrābrābham idaṁ Bhavasya bhavanaṁ kārapitaṁ bhūtale |

‘ This temple of Bhava (Śiva), resembling the white cloud (or mountain, snowy Himālayas) was caused to be built on the earth.’—(Dhanop inscrip. of Chachcha, v. 2, *Ind. Ant.*, Vol. XL, p. 175.)

**BHAVANA-KĀNTA**—A class of the ten-storeyed buildings.

(*M.*, xxviii, 9–13 ; *see* under PRĀSĀDA.)

**BHĀGA-PAÑCHA**—A pavilion with thirty-two pillars.

(*Matsya-Purāṇa*, Chap. cclxx, v. 12 ; *see* MAṆḌAPA.)

**BHĀGA-MĀNA** (*cf.* GAṆYA-MĀNA)—Proportional measurement.

(*M.*, XIII, 43 ; xviii, 84 ; xxxiii, 216, 247, etc. ; *see* MĀNA.)

**BHĀRA** (*see* BHĀRA and STAMBHA)—Beams, cross-beams.

Probably same as hārā or hārikā, a chain, an ornament (? bead, astragal, baguette, *see* *Gwilt. Encycl.*, fig. 873) below the neck of the column.

Stambha-samaṁ bāhulyaṁ bhāra-tulānām upary-upary-āsām |  
Bhavati tulopatulānām ūnaṁ pādena pādena ||

(*Bṛihat-Saṁhitā*, LIII, 30.)

Dr. Kern translates 'bhāra' by cross-beams (*J.R.A.S.*, N. S., Vol. VI, p. 285).

**BHĀRAKA**—A support, a synonym of the column.

(*M.*, xv, 5; *see* under STAMBHA.)

*See* *Suprabhedāgama* (xxxI, 121) under BHĀRĀ.

**BHĀRĀ** (*see* BHĀRA and HĀRĀ)—A support, a beam.

(1) In connexion with buildings of one to twelve storeys :

Chatuṣ-śālā chatuṣ-kūṭaṁ chāshta-bhārā sa-pañjaram |

(*M.*, xx, 72, etc.)

(2) Eka-daṇḍāntar-bhārā tu madhya-bhārā dvi-daṇḍataḥ |

Chatur-daṇḍa-pramāṇena kṛitvā maryyāda-bhittikam ||

Maṇḍale dvārake vātha dvāra-śālāṁ tu bhārake ||

Prāsādaṁ madhya-bhārāyāṁ maryyādaḥ harmyam eva cha ||

(*Suprabhedāgama*, xxxI, 117, 121; for full context *see* vv. 115-122, under PRĀKĀRA.)

**BHITTI**—A wall, a partition, a support.

(1) Bhittiḥ strī kuḍyam |

Bhittiḥ kuḍye prabhede cha |

(*Amarakōsha*, 2, 2, 4.)

(2) Purato'lindam ekāṁśaṁ bhittirṁ kuryāt samantataḥ |

(*M.*, xxxv, 118; compare also xv, 231; xxxviii, 6; xl, 57; lvi, 16; etc.)

(3) Vistārārḍham bhaved garbho bhittayo'nyaḥ samantataḥ |

'The adytum measures half the extent (of the whole) and has its separate walls all around.'—(*Bṛihat-Saṁhitā*, lvi, 12; *J.R.A.S.*, N. S., Vol. vi, p. 318; *see* also *Matya-Purāṇa*, Chap. cclxix, vv. 8, 9, 12.)

(4) Tri-hastāntaṁ tu vistāro bhittināṁ parikṛitaḥ ||

Mūla-bhittir idam mānam ūrdhve pādārḍha-hīnakam |

Anyo'nyam adhikā vāpi nyūnā vā bhittayaḥ samāḥ ||

(*Kāṁikāgama*, xxxv, 32, 33.)



Tri-bhāgena bhaved garbham sanantād bhittir ishyaḥ ॥  
 Dvy-adhikena bahir-bhittiḥ śeṣam prāgvat prakṛtitam ॥  
 Liṅge śilānta(-te) cha krodhe bhitti(ḥ) pañchā(-m)śa-varjitāḥ ।  
 Kimchin nyunam alindam vā śeṣam kuḍyeshu yojayet ॥

(*Kārikāgama*, I, 82, 86, 87.)

The synonyms of bhitti :

. . . dvāri kuḍyam cha kuṭṭimam ॥

Bhitter ākhyeyam ākhyātam . . . ॥

(*Ibid.*, LV, 199-200.)

- (5) Navāśam garbha-geham tu bhitti-mānam tu shoḍaśa ॥  
 Shoḍaśam bhitti-mānam tu bhittim abhyantaram viduḥ ।  
 Tad-bāhyaikam tu salilam tad-bāhyaikam tu bhittikam ॥  
 Bāhya-bhittau chatur-dvāram athavā dvāram ekataḥ ।  
 Anyat sarvam samam proktam stūpy-antam kārayed budhaḥ ॥  
 Yad uktaḥ bhitti-vistāram bāhyābhyanterayoḥ samam ।  
 Bāhye vābhyantere vāpi tri-vidham bhitti-mānakam ॥  
 Pīthasya tri-guṇam garbham ta-(t)-tri-bhāgaika-bhittikam ॥

(*Suprabhedāgama*, xxxi, 4, 6, 7, 8, 12.)

- (6) Prāsāda-vara-varyeshu śilāvatsu sugandhishu ।  
 Ushitvā meru-kalpeshu kṛta-kāñchana-bhittishu ॥

(*Rāmāyāna*, II, 88, 7, etc.)

- (7) Atyuchchair bhitti-bhāgair divi divasa-pati-syandanam vā vigriḥ-  
 ṇan yenākāri koṭaḥ ।

‘By whom the fort (in this place) was built, which perhaps may arrest the chariot of the sun in the sky by its (very) high walls.’—(An Ābu inscrip. of the reign of Bhimadeva II, v. 9, *Ind. Ant.*, Vol. XI, pp. 221, 222.)

- (8) Suttālayada bhittiya māḍisi chavvīsa-tīrtha-karam māḍisidaru ।

‘Śrī Basavi Seṭṭi . . . had the wall round the cloisters and the twenty-four Tirtha-karas made.’—(*Ep. Carnat.*, Vol. II, no. 78 ; Roman Text p. 62 ; Transl., p. 151.)

- (9) ‘Koneri, son of . . . erected a nava-raṅga of 10 aṅkaṣas, with secure foundation and walls (vajra-bhitti-goḍe) for the god Tirumala of the central street of Malalavāḍi.’—(*Ep. Carnat.*, Vol. IV, Hunsur Taluq, no. 1 ; Transl., p. 83 ; Roman Text, p. 134.)

**BHITTI-GRIHA**—A wall-house, a small closet inside the wall resembling a cupboard.

(*M.*, XL, 63, etc.)

**BHITTI-SOPĀNA**—A kind of surrounding steps made through a wall.

(See *Kauṣīlyā-Artha-śāstra* under SOPĀNA.)

**BHINDA-ŚĀLĀ**—A kind of detached building with a balcony in front, paṇḍi-śālā with a verandah in front (see PANDI-ŚĀLĀ).

(*M.*, xxxv, 98; see under ŚĀLĀ.)

**BHŪ-KĀNTA**—A class of storeyed buildings.

A class of eight-storeyed buildings.—(*M.*, xxvi, 3-20; see under PRĀSĀDA.)

A class of the ten-storeyed buildings.—(*M.*, xxviii, 6-8; see under PRĀSĀDĀ.)

**BHŪTA-KĀNTA**—A class of the five-storeyed buildings.

(*M.*, xxiii, 13-15; see under PRĀSĀDA.)

**BHŪ-DHARA**—A type of oval building.

(1) *Agni-Purāṇa* (Chap. civ, vv. 19-20; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 29-30; see under PRĀSĀDA).

**BHŪPA-KĀNTA**—A class of the eight-storeyed buildings.

(*M.*, xxvi, 22-28; see under PRĀSĀDA.)

**BHŪ-PARIKSHĀ**—Testing the site and soil where a village, town or building is constructed.

All the *Vāstu-śāstras* have elaborate descriptions on the subject. The principles and details are similar in the treatises examined below.

(1) The soil of the plot, where a village, town, fort, palace, temple or house is to be built, is examined with regard to its shape, colour, odour, feature, taste and touch (*M.*, iii, 16-32). The elevation of the ground as well as the luxuriant growth of certain plants, trees and grasses on the ground are also examined (*M.*, iv, 4-38). If a plot of land is found to be satisfactory on all or most of these examinations, it should be selected for a village, town, fort, or house, as the case may be. But even after this selection, it would be wise to test the ground by some other ways.

A square hole of one cubit deep should be dug on the selected site and be filled up with water. After 24 hours the chief architect should mark the condition of the water in the hole. If all the water be dried up by this time, the earth is taken to be very bad. But if, on the other hand, there remains some water in the hole, the selected plot of land would be fit for any building.—(*M.*, v, 20-30).

Another final test is that a similar hole is dug on the plot and filled up with the earth taken out of it. If this earth be not quite enough to fill

up the hole, the ground is taken to be very bad, but if this earth overfills the hole, the soil is stated to be very good for any building.--(M., v. 31-37.)

The general import of the last two tests that in the former case, the very dry land is avoided, while in the latter, very loose or sandy land is said to be unfit for the construction of a building.

(2) *Bṛihat-Saṃhitā*, Chap. LIII, vv. 96, 97 (ed. Kern, *Bibliotheca Ind. A. S. Bengal*, New Series, nos. 51, 54, 59, 63, 68, 72 and 73).

Sita-rakta-pīta-kṛishṇā viprādīnām praśasyate bhūmiḥ ।

Gandhaś cha bhavati yasyā gṛīta-rudhirānnādyā-madyasamaḥ ।

Kuśa-yuktā sara-bahulā dūrvākāśāvṛitā kramcṇa mahi ।

Anuvarṇam vṛiddhi-kari madhura-kashāyāmla-kaṭukā cha ॥

See also vv. 85-94 and then compare the last line of the verse 95 :

Tat tasya bhavati śubhadam yasya cha yasmin mano ramate ।

'In general the soil (ground) will be suitable to any one whose mind is pleased with it.'

Compare also the eleven lines quoted from :

(3) Garga by the commentary of *Bṛihat-Saṃhitā*, which are again quoted by Dr. Kern.

(4) 'The *Viśvak* (1, 61, sqq.) contains the same rules, but in other words.'

(5) Part of the corresponding passage from *Kāśyapa* is quoted by Rām Rāz (*Arch. of Hind.*, p. 17.)

(*J.R.A.S.*, N. S., Vol. VI, p. 295, note 2.)

*Vāstu-Ratanāvalī* (a compilation, ed. Jivanatha Jyotishi, 1883, pp. 8, 10) :

(6) On colour of ground, quotation from *Vasishṭha-saṃhitā* :

Śvetaś-śastā dvijendrānām raktā bhūmir mahi-bhūjām ।

Viśam pīta cha sūdrānām kṛishṇānyeshām vimīśritā ॥

(7) From the *Vāstu-pradīpa* :

Śukla-mṛitsnā cha yā bhūmir brāhmaṇi sā prakīritā ।

Kshatriyā rakta-mṛitsnā cha harid-vaiśyā prakīritā ॥

Kṛishṇā bhūmir bhavech chhūdrā chaturddhā parikīritā ॥

(8) On taste, from *Nārada* :

Madhuram kaṭukam tiktam kashāyam cha rashāl kramāt ॥

(9) On smell, from the *Gṛiha-kārikā* :

Gṛitāṣṭig-anna-madyānām gandhaś cha kramaśo bhavet ॥

(10) On declivity, from *Bṛigu* :

Udag-ādī plavam ishṭam viprādīnām pradakshinenaiva ।

Viprah śarvatra vased anuvarṇam athesṭam anyeshām iti ॥

(11) *Śilpa-dīpaka* (ed. Gaṅgādhara, 1, 22-23) :

Śveta brāhmaṇa-bhūmikā cna gṛitavād-gandhā susvādini ।

Raktā śonita-gandhini ṛipati-bhūli svāde kashāye cha sā ॥

Svāde'mlā tila-taila-gandhīr uditā pītā cha vaiśya-mahī ।

Kṛishṇā matsya-sugandhini cha kaṭukā śudreti bhū-lakṣaṇam ॥

(12) *Bhaviṣya-Purāṇa* (Chap. cxxx, vv. 42-44) :

Iṣṭa-gandha-rasopetā nimnā bhūmiḥ praśasyate ।

Śarkarā-tūsha-keśāsthi-kshārāṅgāra-vivarjitā ॥

Megha-dumḍubhi-nirghoshā sarva-vija-prarohiṇī ।

Śuklā raktā tathā pītā kṛishṇā kathitā kshitiḥ ॥

Dviya-rājanya-vaiśyānām śūdrāṇām cha yathā-kramāt ।

Then follows the examination proper of the soil (vv. 44-45). A pit is dug in the ground and filled up with the sand which is taken out exactly in the same way as in the *Mānasāra*. The quality of the soil varies from best to worst as the sand is in excess, equal and less in filling up the pit.

**BHŪMA** (see **TALA**)—A storey, a floor.

Eka-bhūmaṁ dvi-bhūmaṁ vā kshudrāṇām bhavanam nṛiṇām ।

(*Śilpa-śāstra-sāra-saṅgraha*, VIII, 29.)

**BHŪMI-(KA)** (see **TALA**)—Earth, ground, soil, a place, a region a spot, a site, a situation, a storey, the floor of a house.

(1) In the *Mānasāra* a chapter (XI) is named Bhūmi-lamba which describes the dimensions of different storeys :

Bhūmi-lamba-vidhiṁ vakshye śāstre saṁkshepataḥ kramāt ।

Uktaṁ hi bhūmi-lambaṁ syād ekānta-bhūmikam ।

Etad dvā-daśa-bhūmy-antaṁ janmādi-stūpikāntaṁ syāt ।

(*M.*, XI, 1, 5, 125, etc.)

(2) Kshatriyādeḥ pañcha-bhūmir dvijānām rāga-bhūmikam ।

(*Śilpa-śāstra-sāra-saṅgraha*, VIII, 30.)

(3) Vimāno'strī deva-yānc sapta-bhūmau cha sadmani ।

(Nigaṇṭu ; see *Rāmāyaṇa* under **VIMĀNA**.)

(4) Sapta-bhaumāṣṭa-bhaumās cha sa dadarśa mahāpurim ।

(*Rāmāyaṇa*, v. 2, 50 ; see also VI, 33, 8.)

(5) Ekaiva cha bhūmikā tasya syad ekā tasya cha bhūmikā ।

(*Bṛihat-Saṁhitā*, LVI, 23 ; see Kāśyapa, quoted by Kern, *J.R.A.S.*, N. S., Vol. VI, p. 320.)

(6) Śata-śṛiṅgaś chatur-dvāro bhūmikā-śoḍaśochchhritaḥ ।

(*Matsya-Purāṇa*., Chap. cclxix, v. 31 ;

see also vv. 37, 38, 39, 40, 42, 43, 44, etc.)

(7) Rāja-kanyām . . . sapta-bhūmika-prāsāda-prānta-gatām ।

(*Pañchātana*'s, ed. Bombay, I, p. 38.)

(8) A floor (Bhīragha inscrip. of Alhanadevi, v. 27, *Ep. Ind.*, Vol. II pp. 12, 16.)

**BHÜMI-LAMBA**—The height of a storey ; according to the *Kārikāgama* (see below) and the *Mānasāra* the term implies the dimensions of storeys.

(1) The five series of breadth in the smallest type of one-storeyed buildings are 2, 4, 6, 8 and 10 cubits ; and the five series of length are 3, 5, 7, 9, and 11 cubits. In the intermediate type the five series of breadth are 5, 7, 9, 11 and 13 cubits and the five series of length 6, 8, 10, 12 and 14 cubits. In the largest type the five series of breadth are 6, 8, 10, 12 and 14 cubits and the five series of length are 7, 9, 11, 13 and 15 cubits.

(*M.*, XI, 6-12.)

All the twelve storeys are in this way measured separately.

(*M.*, XI, 13-125.)

These are stated to be the dimensions in the Jāti class of buildings. Three-fourths, half and one-fourth of these dimensions are prescribed, for the Chhanda, Vikalpa and Ābhāsa classes respectively.

(2) Chatur-ānśādi-sarṁsthānaṁ bhūmi-lambam iti smṛitam ।

(*Kārikāgama*, I, 1.)

Then follow the dimensions of the storeys from one to twelve and sixteen (*ibid.*, vv. 2-34). The five proportions of the height of storeys, as 'bhumi-lamba' means, are given under the same five technical names as in the *Mānasāra*, viz., Śāntika, Pushṭa, Jayada, Adbhuta, and Sarvākāmika (vv. 24, 25-28). The Jāti, Chhanda, Vikalpa and Ābhāsa classes of buildings are also distinguished (vv. 9-13).

(3) Varāhamihira describes the height, etc. of the buildings of the Brāhmins, kings, ministers and others (*Bṛihat-Saṁhitā*, LIII, 4-26). But the general rule about the height of the storey (bhūmikā) is also given (*Bṛihat-Saṁhitā*, LVI, 29-30) :

Bhūmikāṅgula-mānena mayasyāṣṭottaram śatam ।

Sārdham hasta-trayaṁ chaiva kathitaṁ viśvakarmaṇā ॥

Prāhuḥ sthapatayaś chātra matam ckaṁ vipaśchitaḥ ।

Kapota-pāli-sarṁyuktā nyūnā gachchhanti tulyatām ॥

'A storey's altitude is of 108 digits according to Maya, but Viśvakarman pronounces it to be of three cubits and a half (i.e. 84 digits). As to this, however, able architects have declared that (in reality) there is no discrepancy of opinion, for, if you add the height of the crown-work (kapota-pāli) the smaller number will equal (the greater).'—Dr. Kern.

**BHÜ-MUKHA**—A type of oval building.

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 29-30 ; see under PRĀSĀDA.)

**BHŪSHANA**—A class of storeyed buildings, a moulding, a type of pavilion, articles of furniture, ornaments.

A type of oval building—(*Agni-Purāṇa*, Chap. cv, vv. 19-20 ; see under PRĀSĀDA.)

A class of the nine-storeyed buildings—(*M.*, xxvii, 13-14 ; see under PRĀSĀDA.)

A moulding of the column—(*M.*, xv, 93, etc.)

A type of pavilion :

Devānāṁ cha maunārthaṁ bhūshaṇākhyāṁ tu maṇḍapam ।  
(*M.*, xxxiv, 349.)

*Mānasāra* (Chap. I, 1-309) named Bhūshana :

The ordinary ornaments for the body are called 'aṅga-bhūshana' (lines 1-44, 288-309) and the articles of house-furniture 'bahir-bhūshana, (44-288).

Ornaments are here divided broadly into four classes, namely, Patra-kalpa, Chitra-kalpa, Ratna-kalpa and Mīśrita or Mīśra-kalpa (lines 3-4). All these are suited to the deities. The emperor or Chakravartin can put on all these except the Patra-kalpa. The kings called Adhirāja and Narendra can wear both Ratna-kalpa and Mīśrita. The Mīśra-kalpa is prescribed for all other kings.

Patra-kalpa is so called because it is made of leaves and creepers. Chitra-kalpa is made of flowers, leaves, paintings, all precious stones and other decorations. The Ratnā-kalpa is made of flowers and jewels. And the Mīśra-kalpa is made of leaves, jewels and the mixture of all others. These four kinds are specially made for the images of Gods and Kings only (line 1).

The ordinary ornaments of the body include among others Pādanūpura (anklet), Kirīṭa (diadem), Mallikā (a jasmine-like ornament), Kuṇḍala (ear-ring), Valaya (bracelet), Mekhalā (belt), Hāra (chain), Kaṅkaṇa (bracelet for the wrist), Śiro-vibhūshana (head-gear), Kiṅkini (tittle-bells), Karṇa-bhūshana (ear-rings, etc.), Keyūra (armlet), Tāṭaṅka (large ear-ring), Karṇa (ear ornament), Chūḍā-maṇi (crest-jewel), Bāla-paṭṭa (little tiara), Nakshatra-mālā (necklace of 27 pearls), Ardha-hāra (half chain of 64 strings), Svarṇa-sūtra (gold chain worn round the breast), Ratna-mālikā (garland of jewels), Chira (a pearl necklace of four strings), Svarṇa-kañchuka (gold armour), Hiraṇya-mālikā (gold chain), Lamba-hāra (long suspended chain), etc. The ornaments like crown, etc. are described elsewhere.

The articles of house furniture include among others Dīpa-daṇḍa (lamp-post), Vyajana (fan), Darpaṇa (mirror), Mañjūshā (basket, wardrobe, almirah, etc.), Dolū (swing, hammock, palanquin, etc.), Tulā

and Tulā-bhāra (balance), Pañjara (cage), and Niṣa (nest), etc., for the domestic animals (except cows, horses, elephants, described elsewhere) and birds (lines 45-288). The articles of furniture like car, chariot, throne, bedstead, etc., are described elsewhere.

**BHOGA**—A class of the single-storeyed buildings.

(*M.*, XIX, 167; see under PRĀSĀDA.)

**BHOGA-MANḌAPA** (*cf.* MANḌAPA)—The refectory, an appurtenance of the temple.

(*M.*, XXXII, 55, etc.; see under MANḌAPA.)

**BHOJANA-MATĪHA**—A refectory, a dining-hall.

‘The meritorious gift of a refectory (bhojana-matĥa) for the community (Saṅgha) by the Yavana Chiṭa (Chaitra) of the gates (or of the Gatā country).’—(Junnar inscrip. no. 8, *Arch. Surv.*, New Imp. Series, Vol. IV, p. 94.)

**BHAUMA** (*see* BHŪMI)—A storey, the floor of a house.

Dvādaśa-bhauma, daśa-bhauma, śaḍ-bhauma, sapta-bhauma |

(*Bṛhat-Saṁhitā*, LVI, 20, 21, 22, 24, 27.)

**BHRAMA**—The enclosing cloisters, a covered arcade, an enclosed place of religious retirement, a monastic establishment.

‘The temple itself, with its enclosing cloisters (bhrama) measures . . . The court is surrounded by cloisters (bhamti-bhrama) in which, besides three small temples on the north, south and west sides each in line with the centre of the principal maṇḍapa, there are the orthodox number of fifty-two small shrines (*cf.* Prākāra and Parivārālaya) each crowned by a śikhara or spire.’

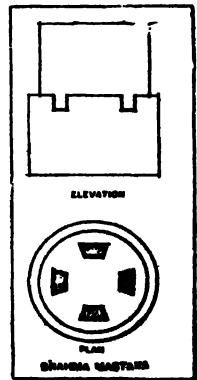
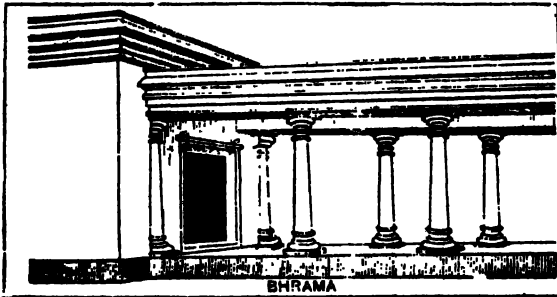
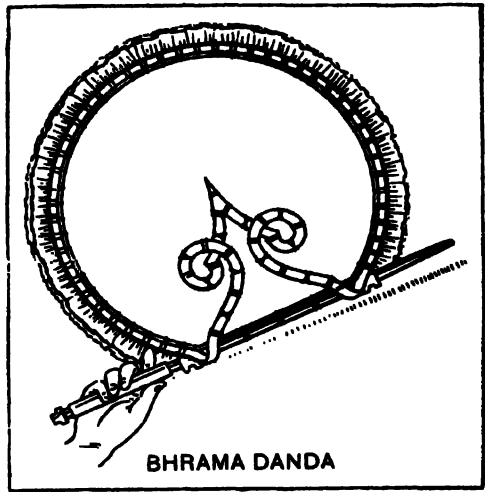
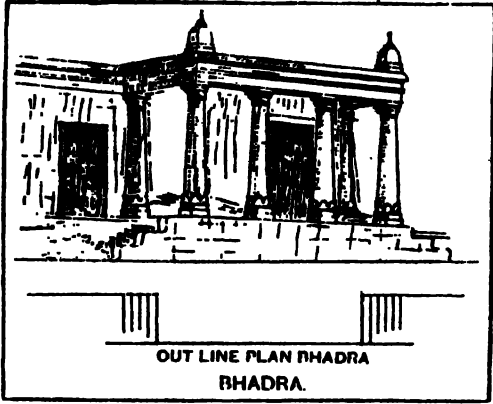
‘The inner façade of the cloister or bhamti (Skr. bhrama) is interrupted only by the three small temples mentioned above, by the large entrance porch on the east, and by smaller entrances on the north and south near the east end. The corridor (alinda) is about nine feet wide all round and is raised by four steps above the level of the court.’

‘The entrance porch on the east projects considerably and is flanked inside by stairs, in line with the bhamti (bhrama) on each side . . .’—(Ahmadabad Arch. Burgess, *Arch. Surv.*, New Imp. Series, Vol. XXXIII, pp. 87, 88.)

**BHRAMAṆA** (*see* PRADAKSHIṆA)—A surrounding terrace, an enclosing verandah, a circular path.

Śikharasya tu turyeṇa bhramaṇaṁ parikalpayet.

(*Agni-Purāṇa*, Chap. XLII, v. 12, etc.)







**BHRAMA-DANḌA**—A kind of post for a large fan.

(*M.*, L, 104 ; *see* under **VYAJANA**.)

**BHRAMĀLINDA**—A surrounding balcony or terrace.

(*M.*, XXXIV, 304, 497, etc. ; *see* under **ALINDA**.)

M

**MAKARA-KUṆḌALA**—A crocodile-shaped ornament for the ear of an image.

(*M.*, LI, 53 ; *see* under **BHÜSHAṆA**.)

**MAKARA-TORAṆA** (*see* **TORAṆA**)—An arch marked with makara (an animal-like shark or crocodile).

Dvayor makarayor vakraiḥ śaktarṁ madhyama-pūritam |

Nānā-vidha-latā-yuktam etan makara-toraṇam ||

(*Kāṁikāgama*, LV, 65.)

For the details of such an arch, *see Annual Report of Arch. Survey of India* (1903-04, p. 227 f.), *Mānasāra* (Chaps. XLVI, XLVIII) and *Suprabhedāgama* (XXIX, 68-72) under **TORAṆA**.

**MAKARA-BHÜSHAṆA**—An ear-ornament.

(*M.*, L, 26 ; *see* under **BHÜSHAṆA**.)

**MAKARĀPATRA**—An ornament of an arch generally above the column.

Tad-ūrdhve toraṇasyānte makarāpatra-samhyutam |

(*M.*, xv, 133.)

**MAKARĀLA**—An architectural member of a hall.

(*M.*, XXXV, 373 ; *see* under **ŚĀLĀ**.)

**MAKARĪ-VAKTRA**—The face of a female shark, employed as an ornament for an arch above a column.

(*M.*, xv, 136.)

**MAKUṬA**—A head-gear, a diadem, a crown.

(*M.*, VII, 164 ; XII, 120 ; XLIX, 15 ; LIV 23, etc.)

**MAṄĠALA**—A kind of throne, a village, a type of pavilion.

A throne.—(*M.*, XLV, 4 ; *see* under **SṚĪHĀSANA**.)

A village (*Kāṁikāgama*, XX, 3 ; *see* under **AGRAHĀRA**).

A type of pavillion—(*M.*, XXXIV, 481-448 ; *see* under **MAṆḌAPA**.)

**MAṄGALA-VĪTHI**—A broad road surrounding a village or town, also called Rāja-vīthi and Ratha-vīthi.

(See *Kāṃikāgama*, under RĀJA-VĪTHI.)

**MAJJANĀLAYA**—A detached building for bath or washing.

(*M.*, XI, 103.)

**MAṄCHA**—A bedstead, couch, bed, sofa, a chair, throne, a platform, a pulpit, a loft.

A synonym of the bedstead (*M.*, III, 11), of the entablature—(*M.*, XVI, 18.)

Mañcha-paryaṅka-palyaṅkāḥ kaṭvyā-samāḥ |

Palyaṅko mañcha-paryaṅka-vṛishi-paryastikāsu cha | Iti Medinī |

(*Amarakośha*, 2, 3, 138.)

In connexion with buildings of one to twelve storeys :

Adhishṭhāna-samaṁ mañchārdhe'rdhena vapra-yuk |

(*M.*, XXI, 14, etc.)

A component part of the bedstead (*M.*, XLIV, 86).

A platform :

Daśa-bhāgau dvau pratimañchau—'two-tenths of it for the formation of two platforms, opposite to each other.'—(*Kauṣīlyā-Artha-Śāstra*, Chap. XXIV, p. 53.)

**MAṄCHA-KĀNTA**—A class of the four-storeyed buildings.

(*M.*, XXII, 47-57 ; see under PRĀSĀDA.)

**MAṄCHA-BANDHA**—A class of bases comprising four types which differ from one another in height and in the addition or omission of some mouldings.

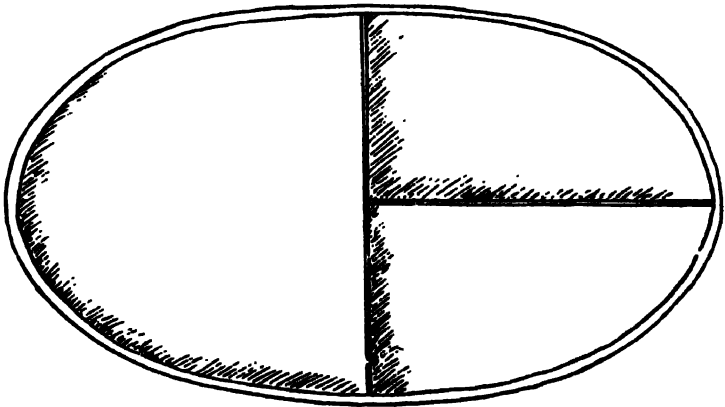
(*M.*, XIV, 127-149 ; see the lists of mouldings under ADHISHṬHĀNA.)

**MAṄCHA-BHADRA**—One of the three classes of pedestals, the other two being Vēdi-bhadra and Prati-bhadra. It has four types differing from one another in height and in the addition or omission of some mouldings.

(*M.*, XII, 93-127 ; see the lists of mouldings under UPARĪTHA.)

**MAṄCHALĪ**—A synonym of the bedstead.

(*M.*, III, 11 ; see under PARYAṅKA.)



MANJUSHA



MAÑJARI(1)—A flower-bud, a shoot, sprout, stalk, a parallel line or row.

(1) Prāsādaṁ nirgataṁ kāryaṁ kapotau garbha-mānataḥ |

Ūrdhvaṁ bhittya-uchchhrāyāt tasya mañjarim tu prakalpayet ||

Mañjaryāś chārdha-bhāgena śuka-nāsaṁ prakalpayet |

Ūrdhvaṁ tathārdha-bhāgena vedi-bandho bhaved iha ||

(Viśvak, 6, 767, quoted by Kern, *J. R. A. S.*,  
N. S., Vol. vi, p. 321, note 2 of p. 320.)

(2) Prāsādaṁ-nirgataṁ kāryaṁ kapolau garbha-mānataḥ |

The remaining three lines are same as in Viśvak.

(*Matsya-Purāṇa.*, Chap. CCLXIX, v. 11 ;  
see also vv. 13, 18-19.)

(3) Jaṅghāyāmaṁ(-yāḥ) dvi-guṇochchhrāyaṁ mañjaryyāḥ kalpayet  
budhaḥ ||

Turya-bhāgena mañjaryyāḥ kāryyaḥ samyak-pradakṣiṇaḥ |

Tan-māna-nirgamaṁ kāryyam ubhayaḥ pārśvayoḥ samam ||

(*Agni-Purāṇa.*, Chap. XLII, vv. 3-4)

(4) Prāsāde mañjari kāryyā chītrā viśama-bhūmikā ||

(*Garuḍa-Purāṇa.*, Chap. XLVII, v. 37.)

MAÑJU-DANḌA—A kind of lamp-post also called dīpa-danḍa.

(*M.*, I, 93.)

MAÑJŪSHĀ—A box, casket, receptacle, a wardrobe, a foundation-pit, a vault, an arched roof to receive a foundation.

Ṣṭakāḥ ṣṭakāḥ ṣṭā mañjūshā |

Ṣṭakas trishu viśphoṭe mañjūshāyāṁ punaḥ pumān | Iti Medini |

(*Amarakōśha.*, 2, 10, 29.)

The vault of the foundation-pit (*M.*, XII, 21).

A wardrobe (*M.*, I, 148, 151).

A casket (the Bhattiprolu inscrip. nos. 1, VI, VIII; *Ep. Ind.*, Vol. II pp. 326, 327, 328, 329).

MAṬHA—A building inhabited by a devotee, a college, a rest-house (see ŚATTRA), a cloister, convent, monastery, a temple.

(1) Āgantukānāṁ sarveśhāṁ naiśṭhikānāṁ nivāsa-bhūḥ

Anna-pāniya-sarhyukta(ḥ) kevalo vā maṭho mataḥ ||

Vidyā-sthānaṁ tu tad-vat syāt . . . ||

(*Kāṁikāgama.*, XX, 13, 14.)

(2) Maṭhaś chhātrādi-nilayaḥ ।

Commentary : chhātrādi-nilayaḥ śiṣhyādināṃ gṛihaṃ maṭha ity-uchyate chhātro'ntevāsy-ādir yeshāṃ parivrājakakshapapakādīnāṃ teshāṃ nilaya) iti vā ādinā kāpālikādi saṃgrahaḥ । Bauddhānāṃ tu vihāro'strī ।

(Amarakūsha, 2, 2, 8.

(3) Kīrchid(a) dūrataḥ kāryā maṭhās tatropajivinām ।

At a little distance (from the temple) the maṭha should be built for those who reside there.—(*Garuḍa-Purāṇa*, Chap. XLVII, v. 45 ; see also Chap. XLVI. v. 3.)

(4) See *Mānasāra* (IX, 198, etc.).

(5) Monastery (Dewal Praśasti of Lalla the Chhinda, v. 20 ; *Ep. Ind.*, Vol. I, pp. 79, 83).

(6) Cloister (Bheraghat inscrip. of Alhanadevi, v. 27, *Ep. Ind.*, Vol. II, pp. 12, 16).

(7) Cf. Koḍiya-maṭha—which is a college and a place of various kind of charity, a hospital, etc. It would look like the famous Nālandā University. A singular description of it is given.—(*Ep. Ind.*, Vol. V, p. 222.)

(8) A college or place of learning :

Bhaktiyūṅ sakala-kalā-sarasvatiye māḍisidaṃ maṭhamāṃ samastā-sābdika-kavi-tārkikāgamika-voidika-sākshara-sajjanāśrayam ।

'Constructed a monastery in piety to Sarasvati of all arts, represented by literature, Vedas, mystic formulae, (and) the holy Akshara.'—(Inscrip. at Ittagi, A. of A. D. 112, v. 71, *Ep. Ind.*, Vol. XIII, pp. 47, 56.)

(9) 'Gryjari Viśvanātha had the dharmasālā maṭhas built (in the year specified).'—(*Ep. Carnat.*, Vol. IX, Bangalore Taluq, no. 2 ; Transl., p. 1.)

(10) Kadāchid etena'mahonnatena maṭhaḥ kṛtaḥ ko'pi ghanair anekah ।

Śrī-bāla-gopāla-virāma-bhūmir vikurvātā martya-dharā jagatyām ॥

Here 'maṭha' is the 'temple' of Bāla-Gopāla (Kṛishṇa).—(Inscrip. from Nepal, no. 17 ; inscrip. of Siddhinṛisimha of Lalta-pattana, v. 15, *Ind. Ant.*, Vol. IX, pp. 185, 187, c. 1.)

(11) 'Toḍakināra used to call her "sister" but the year after festival he said to her—if we live together in one maṭham the people may scoff, so you had better have this one to yourself and I will make the eight tenants of the land build a separate one for me in the West.'

In this passage 'maṭha' apparently means an ordinary 'dwelling house.'—(Toḍakināra Paḍḍana, *Ind. Ant.*, Vol. XXIII, p. 99, para. 14 ; see also paras. 3, 7, 8, 13, 15, and pp. 96-97.)

(12) 'Had a maṭha built (maṭhā kaṭṭīḍi) for Śiva-Basappa-Svami of the Govi-maṭha.'—(*Ep. Carnat.*, Vol. III, Mysore Taluq, no. 24 ; Transl., p. 3 ; Roman Text, p. 7.)

(13) 'On my king (i.e., husband) going to Svarga, having caused to be erected a maṭha in Kalale and attached it to the great palace, Kurahaṭṭi and Śambhupura are granted as an endowment for it, as an offering to Śiva.' The peculiarities of this maṭha should be noted.—(*Ep. Carnat.*, Vol. III, Nanjangūd Taluq, no. 81 ; Transl., p. 103 ; Roman Text, p. 196.)

(14) 'Having erected a maṭha (Sattra or alms-house) for the distribution of food to those who come to the car-festival of the god. . . , caused his guru to take up his residence in the king's maṭha (a detached residential building which belongs to a house and is intended for receiving and accommodating the guests) to conduct the worship of Chandrasekhara (who might be installed in a maṭha or temple which, however, does not occur in the present inscription) and to minister to the Jangamas, and give shelter and food to mendicants and pilgrims, . . . in order to meet all the expenses of the same made a grant of Hāranahalli.'—(*Ep. Carnat.*, Vol. IV, Hunsūr Taluq, no. 104 ; Transl., p. 93 ; Roman Text, 15.)

The different meanings of the term 'maṭha' noted within brackets in the above passage should be noted.

(15) 'He had the stone-fort built, together with the maṭha, maṇṭapa, pond, well . . . '

'In the evening-maṭha (sāndhya-maṭha) he set up the image of the god and built the pond.'

'He caused the stone-fort to be built, and set up the maṭha, maṇṭapa, evening-maṭha (sāndhya-maṭha), pond, well, Basava pillar, swing and images of gods.'—(*Ep. Carnat.*, Vol. V, Part I, Channarayapatna Taluq, nos. 158, 160, 165 ; Transl., pp. 195, 196, 198 ; Roman Text, pp. 450, 451, 454.)

(16) Śri-Śaṅkarāchārya-vinirmite lasat-sirhāsane dharmamayē maṭhe subhāḥ . . .

'He made petition at the feet of Vidyāranya Śri-pāda, representing that in Śringapura, in (connexion with) the dharmapīṭha (or religious throne) established by Śaṅkarāchāryya, there must be a maṭha and agrahāra.'—(*Ep. Carnat.*, Vol. VI, Śringeri Jagir, no. II ; Roman Text, p. 195, line 12 f. ; Transl., p. 95, last para.)

This maṭha is mentioned in no. 13 and is called Śri-maṭha in nos. 25, 26 and 31. Of this maṭha, Mr. Rice gives a history and says that 'the head of the Śringeri maṭha is styled the jagad-guru or the guru of the world and is possessed of extensive authority and influence. He wears on ceremonial occasions a tiara like the Pope's, covered with pearls and precious stones . . . , and a handsome necklace of pearls, with an emerald centre piece.' (Introd., p. 24, para. 2.) But no architectural details are given.



(17) 'This temple is a Brahma-chāri-maṭha.—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 242; Transl., p. 140, line 7; Roman Text, p. 248, lines 20-21.)

(18) Vinīteśvara-maṭha-samāveśaṁ maṭham etat kāritam Sri-Nārāyaṇa-devakulasya—'built this maṭha of the deva-kula of Nārāyaṇa, near the temple of Vinīteśvara.'—(Mundeśvari inscrip. of Udayasena, lines 5, 6; *Ep. Ind.*, Vol. ix, pp. 219-290.)

MAṆIKA—A water-jar, a class of buildings.

A class of buildings which are oval in plan and sub-divided under the following names :

(1) Gaja, (2) Vṛṣhabha, (3) Harṣa, (4) Garutman, (5) Riksha-nāyaka, (6) Bhūṣaṇa, (7) Bhū-dhara, (8) Śrījaya, and (9) Pṛithvī-dhara :

(1) *Agni-Purāṇa* (Chap. civ, v. 11, 19-20; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv, 29-30; see under PRĀSĀDA).

Cf. Rock inscriptions at Mulbe (no. iv, *Ind. Ant.*, Vol. xxxv, pp. 79, 80).

MAṆI-GRĀMA—A trading corporation. (Note on Tamil Inscription in Siam, E. Hultzsch, *J. R. A. S.*, 1913, pp. 337-339.)

MAṆI-DVĀRA—A kind of top door or window.

Upariṣṭāt trayāṁśaṁ tu chatvārārdhāṁśaṁ dvi-pārsvayoḥ |

Teshāṁ madhye tu yad dvāraṁ maṇi-dvāraṁ ihochyate ||

(*Kāśikāgama*, LV, 49.)

MAṆI-BANDHA—An ornament for the wrist, a string of pearls, the collet.

Prakoshṭhe valayaṁ chaiva maṇi-bandha-kalāpakam |

(*M.*, L, 16.)

Maṇi-bandha-kāṣakaṁ vā mauktika-chūḍam eva cha |

(*M.*, LIV, 14.)

Prakoshṭha-valayaṁ chaiva valayair maṇi-bandhakaiḥ

(*Ibid.*, 99, etc.)

MAṆI-BHADRA (see MAṆḌAPA)—A pavilion with 64 columns.

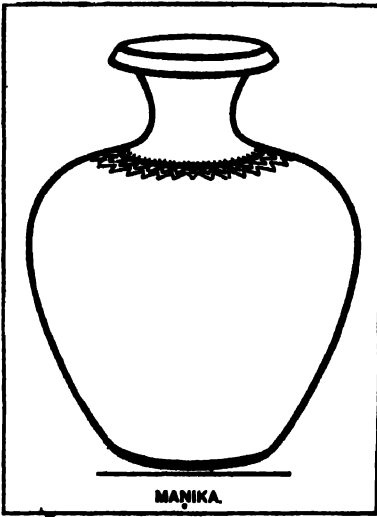
(*Suprabhōdāgama*, xxx, 101, 103; see under MAṆḌAPA.)

MAṆI-BHITTI—The residence of the great serpent (Śeṣha-nāga).

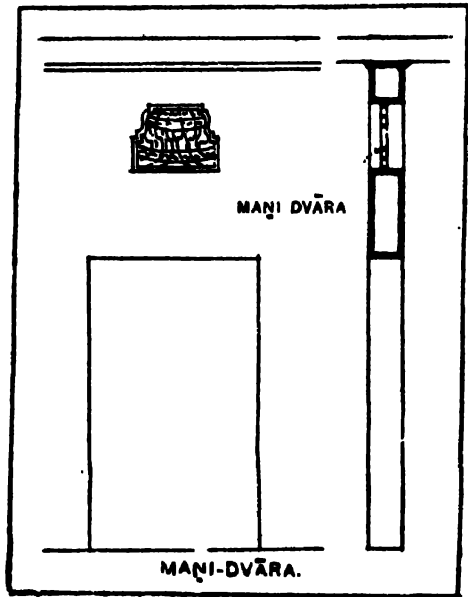
MAṆI-BHŪ-(MI)—A floor inlaid with jewels.

MAṆI-MANḌAPA—A jewelled pavilion, the residence of the great serpent (Śeṣha-nāga).

MAṆI-HARMYA—An upper storey, a crystal palace, a jewelled mansion. (See *Artha-śāstra* under GṆĪMA-VINYĀSA.)



MAṆIKA.



MAṆI DVĀRA

MAṆI-DVĀRA.



MAṄḌAPA—A detached building, a pavilion, an open hall, an harbour, a corridor' (*M.*, xxxiv, 406, 409, 414, etc.), a tower, a temple, the auditorium in a theatre (*Bharata-Nāṭya-śāstra*, II, 7-8, 22 ; see details under NĀṬYA-GRIHA (VEŚMA).

Atha maṅḍapo'strī janāśrayaḥ 1—(*Amarakośha*, 2, 2, 9.)

'Maṅḍapas are not furnished with walls ; the roofing is formed of large slabs of granite supported by monolithic pillars.'—(D. A. Iyengar, p. 20.)

'The resting place where the gods are every year (occasionally) carried. The most celebrated part of the temple of Madura is the Pudu maṅḍapam which is only a vast corridor.'—(*Ibid.*, p. 38.)

Difference between Maṅḍapa and Sabhā (*M.* xxxiv, 559-562) : the former having a pent-roof, and the latter pinnaced (i.e. spherical roof).

(1) *Mānasāra* (Chap. xxxiv, 1-578, named Maṅḍapa) :

Maṅḍapa generally means a temple, bower, shed or hall. But the term has been used in three technical senses in this chapter.

It implies in the first place a house in the village, etc., or built on the bank of a sea, river, tank or lake ; secondly, the detached buildings in a compound which is generally divided into five courts (see PRĀKĀRA). But in the most general sense, it implies various sorts of rooms in a temple or residential buildings. The most part of this long chapter is devoted to a description of these rooms.

Maṅḍapas are both temples and residential buildings :

Taita(-ti)lānām dvi-jātinām varṇānām vāsa-yogyakam ।

The general comparative measurement of the maṅḍapas is discussed at the beginning. This is followed by the measurement and other descriptions of (ii) the bhitti (wall), (iii) balcony (alinda), (iv) prapā (alms-house), and (v) the form of the maṅḍapas (lines 3-4).

Seven maṅḍapas are, as stated, built in front of the prāsāda or the main edifice (line 157). They are technically called Himaja, Nishadaja, Vijaya, Mālyaja, Pāriyātra, Gandhamādana and Hema-kūṭa (lines 163-156). Various parts of these, such as walls, roofs, floors, balconies, courtyards, doors, windows, pillars, etc., are described in detail (lines 166-175). Besides these seven, various other maṅḍapas are also described in accordance with their architectural details and the various purposes for which they are built.

Meruja maṅḍapa is for the library-room (line 161), Vijaya for wedding ceremonies (line 163), Padmaka for refectory or kitchen of gods (line 174), Sicha for ordinary kitchen (line 175), Padma for collecting flowers (line 181), Bhadra for water reservoir, store-house, etc. (line 185), Śiva for unhusking paddy corn (line 197), Veda for assembly-hall (line 209), Kula-dhāraṇa for keeping perfumes (line 262), Sukhāṅga for guest-house (sattrā, line 272), Dārva for elephant's stable, and Kausika for horses'

stable, Saukhyaka and others built on the bank of a sea, river, lake, etc., are for the pilgrimage of gods (line 281), Jayāla and others for summer residence (line 294). Some maṅḍapas are made for banishment (see below), some for bedrooms of queens and others. Dhanada (line 328), Bhūṣaṇa (lines 349, 366), Kharvaṭa (lines 455, 472), Droṇa (lines 423-434), Śrī-rūpa (line 480), Maṅgala (line 488), etc., are described under these terms.

The plan, ornaments, etc., of maṅḍapas are described in detail. A description of the forms of maṅḍapas is given (lines 549-557). The maṅḍapas (rooms) of temples and of the houses of the Brāhmaṇās should have the Jāti shape; the Chhanda shape is given to the maṅḍapas of the Kshatriyas, the Vikalpa shape to those of the Vaiśyas, and the Ābhāsa shape to those of the Śūdras. But according to some, these four classes are also based on the form of the Bhadra (portico).

The maṅḍapas of two faces are called daṇḍaka, of three faces svastika, the latter one having also the plough shape; the maṅḍapas of four faces are known as chatur-mukha, of six faces maulika, and of five faces sarvato-bhadra (lines 554-556).

A short description of the maṅḍapas in a village or town is also given (lines 558-572). Their principal members are stated to be the lupā (pent-roof), prastara (entablature), prachchhādana (roof), sabhā (council hall), and kūṭa (dome), etc. Maṅḍapas are also built on the roadside and at other places.

All the maṅḍapas mentioned above are separately described as they belong to a temple or to the houses of the Brāhmaṇās, the Kshatriyas, the Vaiśyas, and the Śūdras respectively (cf. lines 571-578).

Cf. the following :

The detached buildings or attached halls for various purposes:-

Some bhallāṭa-mukhye cha kalpayet kośa-maṅḍapam |  
 Pushpa-dante sūkarau cha śāstra-maṅḍapa-saṅhyutam |  
 Varuṇe vāsūre vāpi vastu-nikshepa-maṅḍapam |  
 Nāge vāpi mṛige vāpi deva-bhūṣaṇa-maṅḍapam |  
 Ā(a)ditau choditau vāpi śayanārtham cha maṅḍapam |  
 Āsthāna-maṅḍapam chaiva chatur-dikshu vidikshu cha |  
 Snāpanārtham maṅḍapam snāna-maṅḍapam eva cha |  
 Gṛiha-kahate yame vāpi vāhana-sthāna-maṅḍapam |  
 Maryādi-bhittikasāntam maṅḍapam pavanālayam

(M., xxxii, 68-76.)

Dakṣiṇe nairṛiti vāpi bhojanārtham tu maṅḍapam |  
 Vāyavyena dhanāṅgāmśc pushpa-maṅḍapa-(m) yojayet |  
 Tat-tad-bāhya-pradeśe tu kāya-śuddhyartha-maṅḍapam |  
 Vāyavye nairṛite vāpi sūtikā-maṅḍapam bhavet |

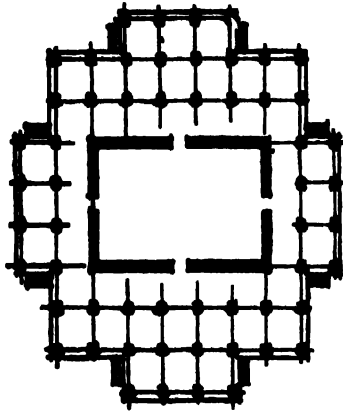
(M., xl, 98, 102, 104, 105.)

# THE PAVILIONS

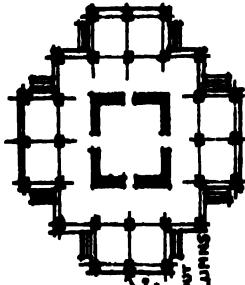
NOTE:—

THE PAVILIONS HIRAJA, NISHADAJA, YINDHYAJA SHOULD BE BUILT IN FRONT OF A MAIN TEMPLE.

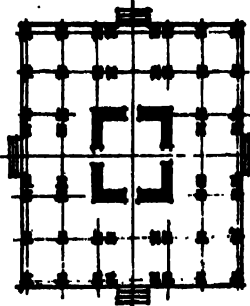
IN HIRAJA TYPE, NOTHING ABOUT THE OMISSION OF MIDDLE COLUMNS IS MENTIONED



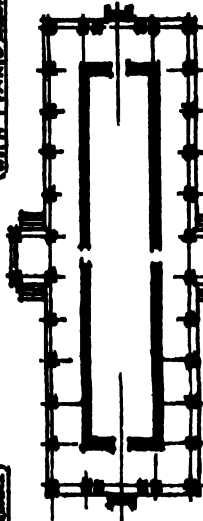
YINDHYAJA PAVILION  
(WITH 7 PARTS ACROSS)



HIRAJA PAVILION  
(WITH 4 PARTS SQUARE)



NISHADAJA PAVILION  
(WITH 4 PARTS SQUARE)



KSHETRA PAVILION (WITH 14 PARTS)  
(TO BE USED AS A SPACE BEHIND OF A LIBRARY)



The height :

Maṇḍapam nava-talam kuryād . . .

(*M.*, xi, 144.)

Īśānādi-chatush-karṇe maṭham vā maṇḍapam tu vā |

(*M.*, ix, 198.)

Maṇḍapādi cha bhūpānām veśma kuryāt tu pūrvavat |

(*Ibid.*, 445.)

In connexion with columns :

Prāsāde maṇḍape vāpi prakāre gopure tathā |

(*M.*, xv, 433.)

Cf. Āyuda-maṇḍapa (*M.*, xxxvi, 34), v(b)ālālokana-maṇḍapa (*ibid.*, line 48), vivāha-maṇḍapa (line 49), vastrāchchhādana-maṇḍapa (line 50), vidyābhyāsārtha-maṇḍapa (line 53), tailābhyaṅgārtha-maṇḍapa (line 54), āsthāna-maṇḍapa (line 55), vilāsārtha-maṇḍapa (line 56), dhānya-karṣhaṇa-maṇḍapa (line 69), pushpa-maṇḍapa (line 71), nṛitya-yogya-maṇḍapa (line 74), nityārchana-maṇḍapa (line 79), etc.

Some maṇḍapas are stated to be furnished with 100 or 1,000 columns :

Sata-pāda-yutaṁ vātha sahsrāṅghrika-maṇḍapam |

(*M.*, xxxiv, 240.)

(2) Bandha-sthānaṁ bahiḥ kuryāt snāna-maṇḍapam eva cha |

(*Matsya-Purāṇa*, Chap. cclvi, v. 35.)

Prāsādasyottare vāpi pūrve vā maṇḍapo bhavet ||

Chaturbhis toraṇair yukto maṇḍapa-(ḥ) syāch chatur-mukhaḥ ||

(*Ibid.*, Chap. cclxiv, vv. 13, 15.)

'The maṇḍapa should be built to the north or east of the temple. It should have four faces (façades) and be furnished with four arched gateways (*lit.* arches).'

Athātaḥ saṁpravakshyāmi maṇḍapāṇām tu lakṣhaṇam |

Maṇḍapa-pravarān vakshye prāsādasyānurūpataḥ || (1)

Vividhā maṇḍapāḥ kāryā jyeshṭha-madhyā-kaniyasāḥ |

Nāmas tān pravakshyāmi śṛiṇudhvam ṛishi-sattamāḥ || (2)

Then follow the names of twenty-seven maṇḍapas. They are divided according to the number of columns they are furnished with, the largest one having 64 pillars, the next 62, one following 60, and so on :

(1) Pushpaka, (2) Pusha-bhadra, (3) Suvrata, (4) Amṛitananadana, (5) Kauśalya, (6) Buddhi-saṁkīrṇa, (7) Gajabhadra, (8) Jayābaha, (9) Śrīvatsa, (10) Vijaya, (11) Vāstu-kīrti, (12) Śrutiṁjaya, (13) Yajña-bhadra, (14) Viśāla, (15) Suślisṭha, (16) Śatru-mardana, (17) Bhāga-pañcha, (18) Nandana, (19) Mānava, (20) Māna-bhadra, (21) Sugrīva, (22) Harita, (23) Karṇi-kāra, (24) Śatardhika, (25) Sindhā, (26) Śyāma-bhadra, and (27) Subhadra.



The plans of maṅḍapas are given next :

Tri-koṇaṁ vṛittam ardhendum aṣṭa-koṇaṁ dvir-aṣṭakam |  
Chatuṣh-koṇaṁ tu kartavyaṁ saṁsthānaṁ maṅḍapasya tu ||

(*Matsya-Purāṇa*, Chap. CCLXX,  
vv. 1, 2, 3-6, 7-15, 16.)

(3) Bhitte dvaiguṇyato vāpi kartavyā maṅḍapāḥ kvachit |

(*Garuḍa-Purāṇa*, Chap. XLVII, v. 37.)

Prāsādasyāgrataḥ kuryān maṅḍapaṁ daśa-hastakam ||  
Kuryād dvā-daśa-hastaṁ vā stambhaiḥ shoḍaśabhir yutam |  
Dhvajāṣṭakaiś chatur-hastān madhye vedīm cha kārayet ||

(*Ibid.*, Chap. XLVIII, vv. 4-5.)

(4) Āhūya viśva-kārmmaṇān kārayāmāsa sādaram |

Maṅḍapaṁ cha suvistīraṁ vedikābhir manoramam || (2)

Description of its carving hand paintings :

Jalaṁ kiṁ nu sthalaṁ tatra na vidus tattvato janāḥ |  
Kvachit simhāḥ kvachid-dharmāsāḥ sārasās cha mahā-prabhāḥ || (6)  
Kvachich chhikhaṁḍinas tatra kṛitrimā sumanoharāḥ |  
Tathā nāgāḥ kṛitrimās cha hayās chaiva tathā mṛigāḥ || (7)  
Ke satyāḥ ke asatyās cha saṁskṛitā viśva-kaṛmaṇā |  
Taithaiva chaivaṁ vidhinā dvāra-pāda-bhūtāḥ kṛitāḥ || (8)  
Rathā rathi-yutā hy-āsan kṛitrimā hy-akṛitopamāḥ |  
Sarveshān mohanārthāya tatha cha saṁsadaḥ kṛitāḥ | (13), etc.  
Evaṁbhūtaḥ kṛitas tena maṅḍapo divya-rūpavān || (20)

(*Skanda-Purāṇa*, Māheśvara-khaṇḍa-prathama,  
Chap. xxv, vv. 2, 6, 7, 8, 13, 20 ; for  
further description see vv. 36-67.)

Rathasyāna-dig-bhāge śālān kṛitvā suśobhanān |

Tan-madhyc maṅḍapaṁ kṛitvā vedim atra sunirmalām ||

(*Ibid.*, Vaishṇava-khaṇḍa-dvitiya, Chap. xxv, v. 26.)

(5) Eka-dvi-tri-talopetaṁ chatuṣh-pañcha-talaṁ tu vā ||

Maṅḍapaṁ tu vidhātavyaṁ sālānān agra-deśake ||

(*Kāṁikāgama*, xxxv, 96, 96a.)

(6) Maṅḍapas implying the detached buildings and forming part of a temple—(*Suprabhedāgama*, xxxv, 94-104).

Measurement as compared with the temple :

Prāsāda-lakṣhaṇaṁ proktaṁ maṅḍapānaṁ vidhīm śṛiṇu || (94)

Prāsādārdhaṁ mukhāyāmaṁ vīstāraṁ samam uchyate |

Tri-pādaṁ vā mukhāyāmaṁ sārḍhaṁ maṅḍapānaṁ uchyate ||

Classification :

Devatā-maṅḍapaṃ pūrvaṃ dvitīyaṃ snapanārthakam ।  
Vṛishārthaṃ maṅḍapaṃ paśchāch chaturthaṃ ṛitta-maṅḍa-  
pam ॥ (96)

Description of these four classes of maṅḍapas :

Devatā-pratimā-rūpā(-aṃ) sthāpitaṃ deva-maṅḍapam ।  
Kalaśa-sthāpanaṃ yatra proktaṃ snapana-maṅḍapam ॥ (97)  
Vṛishabha-sthāpitaṃ yatra vṛishabha-maṅḍapaṃ tathā ।  
Nṛittaṃ yatra kṛitaṃ tat tu ṛitta-maṅḍapam eva tu ॥ (98)  
Gopure'tha vāyavye'pi vāyavye vikṛitaṃ tathā ।  
Evaṃ chatur-vidheshv-anya-maṅḍapaṃ chāgrato bahiḥ ॥ (99)

Their names :

Teshāṃ nāmāni vakshyāmi śṛiṇu vatsa samāhitaḥ ।  
Nanda-vṛittaṃ śriyā-vṛittaṃ virāsanam cha vṛittakam ॥ (100)  
Nandyāvartam maṇi-bhadraṃ viśālaṃ cheti kirtitam ।

Their characteristic features :

Nanda-vṛittaṃ chatuḥ-padaṃ shoḍaśaṃ śrīpratishṭhitam ॥  
Viṃśati-sambha-saṃyuktaṃ virāsanam iti smṛitam ।  
Dvātriṃśad-gātra-saṃyuktaṃ jaya-bhadram iti kathyate ॥  
Shaṭ-triṃśad-gātra-saṃyuktaṃ nandyāvartam iti smṛitam ।  
Chatuḥ-shashṭi-saṃyuktaṃ stambhānāṃ maṇi-bhadrakam ॥  
Stambhānāṃ tu śatair yuktaṃ viśālam iti saṃjñitam ।  
Prāsāda-vat samākhyātaṃ prastarāntaṃ pramāṇataḥ ॥ (104)

(*Suprabhedāgama*, xxxv, 94-104.)

Then follows an account of these columns (*ibid.*, vv. 105-108 ; see under STAMBHA).

*Kauṭīlyā-Artha-śāstra* (Chap. xxii, p. 46, footnote) :

(7) Ardha-gavyūta(-ti)-tritīyāṃ ar-grāmāntara-rahitaṃ maṅḍapam ।

(*Rāyapaseṇī-sūtra-vyākhyāne*, p. 206.)

(8) Maṅḍapāni dūra-sthala-simāntarāṇi ।

(*Praśna-vyākaraṇa-sūtra-vyākhyāne*, p. 306.)

(9) See the first Praśasti of Baijnath (v. 29, *Ep. Ind.*, Vol. I, p. 106), also the second Praśasti (v. 25, pp. 114, 117).

(10) Someśvarāya tan-maṅḍapam uttaraṇa—'to the north of the hall of the temple of Someśvara.'—(Chintra Pī śasti of the reign of Sarangadeva, v. 40, *Ep. Ind.*, Vol. I, pp. 284, 276.)

(11) A hall for the supply of water (inscrip. of Chandella Viravarman I, v. 19, *Ep. Ind.*, Vol. I, pp. 328, 330).

(12) A chapel (Harsha stone inscrip., vv. 12, 44, *Ep. Ind.*, Vol. II, pp. 121, 124, 126, 128).

(13) Nārāyaṇasyāyatanam . . . saha maṅḍapena—the temple of Nārāyaṇa together with the hall.—(Khalari Stone inscrip. of Haribrahmadeva. v. 10, *Ep. Ind.*, Vol. II, p. 231.)

(14) Someśvara-maṅḍapa—the temple of Somanath.—(Śrīdhara's Devapattana Praśasti, v. 23, *Ep. Ind.*, Vol. II, p. 442 ; see also v. 10, p. 440.)

(15) Maṅḍapa (the Kanarese form)—a hall.—(Satymangalam Plates of Devaraya II, v. 8, *Ep. Ind.*, Vol. III, pp. 37, 40.)

(16) Śri-vallādhīpateś śivasya sukhadam bhadrāvyaṁ maṅḍapam . . . akarod bhadrāvyaṁ maṅḍapam . . . ||

Bhadrākhyā-maṅḍapam(mum) virachyā Śambhor nidrāvasānavijayitī cha nāma kṛitvā |

Chakre cha Nāyaka-śivālayam asya pārśve śrī-jñāna-mūrtir atisampadī-vallā-puryyām ||

(Bilvanathēśvara inscrip. of Virachampa, vv. 1, 2, 3, *Ep. Ind.*, Vol. III, pp. 70, 71.)

(17) Dhāma, Maṁḍira, Prāsāda and Bhāvana are used indiscriminately for temple or maṅḍapa.—(Ganapesvaram inscrip. of Ganpati, vv. 23-25, *Ep. Ind.*, Vol. III, pp. 86-87).

(18) Abhyavahāra-maṅḍapa—a dining hall.—(Ranganath inscrip. of Sundarapandya, v. 23, *Ep. Ind.*, Vol. III, pp. 13, 16.)

(19) 'The immediate purpose of the Ranganatha inscription of Sundarapandya is a description of his building operations at, and gifts to, the temple. He built a shrine of Narasiṁha (vv. 2 and 10) and another of Viṣṇu's attendant Viṣṇvakṣena (v. 8), both of which were covered with gold, and a gilt tower which contained an image of Narasiṁha (v. 7). Further he covered the (original or central) shrine of the temple with gold—an achievement of which he must have been specially proud, as he assumed, with reference to it, the surname Hema-chchhādāna-rāja, i.e., the king who has covered (the temple) with gold, and as he placed in the shrine a golden image of Viṣṇu, which he called after his own surname (v. 3). He also covered the inner wall of the (central) shrine with gold (v. 22) and built, in front of it, a dining-hall, which he equipped with golden vessels (v. 23) . . . . In the month of Chaitra he celebrated the procession-festival of the god (v. 20). For the festival of the gods sporting with Lakṣmī, he built a golden ship (v. 21). The last verse (v. 30) of the inscription states that the king built three golden domes over the image of Hema-chchhādāna-rāja Hari, over that of Garuḍa (v. 16) and over the hall which contained the couch of Viṣṇu (v. 6).'

'The following miscellaneous gifts (for articles of furniture) to Ranganatha are enumerated in the inscription :—A garland of emeralds (v. 4), a crown of jewels (v. 5), a golden image of Śeṣha (v. 6), a golden arch (v. 9), a pearl garland (v. 11), a canopy of pearls (v. 12), different kinds of golden fruits (v. 13), a golden car (v. 14), a golden trough (v. 15), a golden image of Garuḍa (v. 16), a golden under-garment (v. 17), a golden aurcola (v. 18), a golden pedestal (v. 19), ornaments of jewels (v. 24), a golden armour (v. 25), golden vessels (v. 28), and a golden throne (v. 29).—(Ranganatha inscrip. of Sundarapandya, *Ep. Ind.*, Vol. III, p. 11.)

(20) Kṛiṣṇālayam maṅḌapam—an abode of Kṛiṣṇa, an open hall.—(Three inscrip. from Travancore, no. B, line 4 : *Ep. Ind.*, Vol. IV, p. 203.)

(21) Āsthāna-śilā-maṅḌapa (not translated by Hultzsch).—(First Draksharama pillar inscrip., line 9, *Ep. Ind.*, Vol. IV, pp. 329, 330.)

(22) Ghana-maṅḌapa-vapra-saudha-ramyālayam (v. 39)—'a temple (ālaya) adorned with a solid hall, a wall and a plastered mansion' (pp. 123, 114).

Sudhā-liptam śilā-maṅḌapam (v. 43)—'a plastered hall of stone, (pp. 123, 114).

Vipulam ramyam mahā-maṅḌapam (v. 44)—'a fine large hall, (pp. 123, 114).

Ramyam mahā-maṅḌapam (v. 47)—'a beautiful large hall' (pp. 124, 115).

Ghanam prāsadam nava-hema-kumbha-kautam ramyam mahā-maṅḌapam (v. 51)—'he presented a solid temple (prāsada), adorned with nine golden pinnacles (kumbha), and a beautiful large hall, to the temple of Hari' (pp. 125, 115).—(Mangalagiri pillar inscrip., *Ep. Ind.*, Vol. VI, pp. 114, 115, 124, 125.)

(23) Ānandaika-niketanam nayanayoḥ s(ś)asvan manaḥ-kairava-jyotsnaughah khalu viśvakarmma-nipuṇa-vyāpāra-vaidaghdyabhūḥ ।

Grishma-grāsa-bhayātibhita-janatā-śautīrya-durggālayo mārggah kirttivijṛimbhanasya jayinā prottambhito maṅḌapah ॥

(Two Bhuvanēśvara inscrip., no. 1, of Svapnēśvara, v. 29, *Ep. Ind.*, Vol. VI, p. 202.)

(24) 'This inscription (Bhimavaram inscrip. of Kulottunga I) is engraved on a pillar in the maṅḌapa in front of the Nārāyaṇasvāmī temple at Bhimavaram in the Cocanada division of the Godavari District.'—(*Ep. Ind.*, Vol. VI, p. 219.)

(25) Utsava-maṅḌapa—a festive hall.—(Kondavidu inscrip. of Krishnaraya, v. 27, *Ep. Ind.*, Vol. VI, pp. 237, 231.)

(26) 'The village of Śivamaṅgalam of the North Arcot District contains a Śiva temple named Stambheśvara, which consists of a rock-cut shrine, two maṅḌapas in front of it, and a stone enclosure. The two rock-cut

pillars of the gate by which the shrine is entered bears the two subjoined inscriptions. Besides, there are several Chola inscriptions on the walls of the enclosure.'—(Dr. Hultsch. *Ep. Ind.*, Vol. VI, p. 319.)

(27) Maṅḍapo nava-gabha—a nine-celled hall.

Pātho maṅḍapo—a study.—(Kalre Cave inscrip. no. 20, *Ep. Ind.*, Vol. VII, pp. 71, 72, 73.)

(28) Śrī-Kāñchi-Jina-Vardhamāna-nilayasyāgre mahā-maṅḍapaṁ śaṁ-  
gītārtham achikarach cha śilayā baddham śamantāt sthalam ||

'Caused to be built, in front of the temple of the Jina-Vardhamāna at the prosperous Kāñchi, a great hall for concerts and (caused to be) paved with stones the space all round.'—(Two Jaina inscrip. of Irugappa, no. B, line 2, *Ep. Ind.*, Vol. VII, p. 116.)

(29) 'Two buildings to be erected in the temple of Arulālanātha (are) a maṅḍapa of one thousand pillars, a canopy of gems for (the image of) Muḍivalaṅginan . . .—(Arulala-Perumal inscrip. of Prataparudra, line 8, *Ep. Ind.*, Vol. VII, pp. 131, 132.)

(30) Śrī-nara-simha-varma-nṛpatiḥ Śrī-kovalūre bhajan vāsaṁ viśva-  
jagan-nivāsa-vapushaḥ Śrī-vāmanasyākarot |

Sailaṁ śumbhita-śata-kumbha-vilasat-kumbhaṁ mahā-maṅḍapaṁ  
prakāraṁ para-mālikā-vilasitaṁ muktāmayiṁ cha prapā(-bhā)m |

'The glorious prince Nara-simha-varman, residing in Śrīkovalūra made for the god Vāmana, in whose body the whole world abides, a great maṅḍapa of stone, resplendent with pitchers (kalaśa or kumbha) of shining gold, a surrounding wall, adorned with excellent buildings, and a canopy of pearls.'—(Fourteen inscrip. at Tirukkoalur, no. K, of Rajendradeva, lines 1-2, *Ep. Ind.*, Vol. VII, pp. 145, 146.)

(31) Dhārā-giri-garbha-marakata-maṅḍape—in an emerald pavilion  
on the Dhārāgiri hill.—(Dhara Praśasti of Arjunavarman, line 12, *Ep. Ind.*, Vol. VIII, pp. 103, 100.)

(32) Tejaḥpāla iti kṣitiṁdu-sachivaḥ saṁjvalābhiḥ śilā-śreṇibhiḥ  
sphurad iṁdu-kuṁḍa-ruchiraṁ Nemi-prabhor maṁdiram |

Uchchair maṅḍapam agrato Jina-(varā)-vāsa-dvi-parichā-śataṁ  
tatpārśveshu balānakaṁ cha purato nishpādayāmāsivān ||

'The minister Tejaḥpāla, a moon on earth, erected the temple of the Lord Nemi, which shines by lines of stones as white as conch shells (and) is resplendent like the moon and jasmine flowers, a lofty hall (maṅḍapa) in front (of it), fifty-two shrines for the best of the Jinas on the sides of it and a seat (balānaka) in the front.'—(Mount Abu inscrip. no. 1, v. 61, *Ep. Ind.*, Vol. VIII, pp. 212, 218.)

(33) . . . Kāmākṣī-dharma-maṅḍape ||

Pratyabdan dvija-bhukty-artthaṁ bhāgam ckaṁ akalpayat ||

'Set apart one share for the yearly feeding of Brāhmaṇas in the Kāmākṣī-dharma-maṅḍapa.'—(Madras Museum plates of Śrīgīribhūpāla, vv. 21, 22, *Ep. Ind.*, Vol. viii, pp. 311, 316.)

(34) 'Māraṅgari . . . the prime minister of king Māraṅgaḍaiyan, made this stone temple and ascended heaven (i.e., died) without consecrating it. Subsequently his brother Māraṅ, Eyinan . . . who attained to the dignity of prime minister, made the mukha-maṅḍapa (muga-maṅḍapan) and consecrated (the shrine).'—(Two Anaimalai inscrip., no. II, *Ep. Ind.*, Vol. viii, pp. 320, 321.)

(35) Cf. Maṅḍapikā (*lit.*, a small pavilion) :

Śrī-Naddūla-mahā-sthāne Śrī-Saṅḍeraka-gachchhe Śrī-Māhāvīradevāya Śrī-Nāddūla-talapada-śulka-maṅḍapikāyāṁ māsa-numāsaṁ dhūpa-ve(tai)lārtham |

'Granted to the Jaina temple of Mahāvīradeva in the Saṅḍerak gachchha, at the holy place (Mahāsthāna) of Naddūla, a monthly (sum of five drammas), (to be paid) from the custom-house in the grounds (talapada-svatala) of Naddula.'

For passages in which the term Maṅḍapikā occurs, compare, e. g., *Ep. Ind.*, vol. I, pp. 114, 1-27 p. 173, 1-6, (Śīyaḍoṇi-Satka-maṅḍapikā), p. 175, 1, 19; p. 177, 1, 29 and 1, 30; p. 179, 1, 45; p. 262, 1, 3 (paṭṭana-maṅḍapikā); *Ind. Ant.*, vol. xiv, p. 10, col. 2 (Śrīpathāstha-maṅḍapikā); *Journ. As. Soc. Beng.*, vols. LV, part I, p. 47; IV, p. 48, and V; Bhavnagar inscrip., p. 205, 1, 7. Śulka-maṅḍapikā occurs, e. g., in Bhavnagar inscrip., p. 158 f., 11, 10, 15 and 18.

'The meaning of maṅḍapikā is suggested by the Marāṭhī māṁḍavī, a custom-house.' Prof. Kielhorn.—(The Chahamanas of Naddula, no. A, Nadol plates of Alhanadeva, lines 22-23, *Ep. Ind.*, Vol. ix, pp. 66, 63, and note 8.)

(36) . . . Vidadhe' syā maṁḍire maṁḍapam ||

Chakre'(a)kshaya-tṛitīyayāṁ pratishṭhā maṁḍape dvijaiḥ ||

(Chahamanas of Naddula, no. C., Sundhā Hill inscrip. of Chāchigadeva, vv. 56, 57, *Ep. Ind.*, Vol. ix, p. 79.)

(37) Deva-Śrī-Śaśi-bhushaṇasya kṛtinā devālayaṁ kārītaṁ yugmaṁ maṁḍapa-śobhitaṁ cha purato-bhadraṁ pratolā saha |

Kshetreśasya tathā surālaya-varāṁ sphītaṁ taḍḍagaṁ tathā bandhaṁ Kaudika-sarjñākaṁ 'bahu-jalaṁ dīrghaṁ tathā khāṇitaṁ ||

(Kanker inscrip. of Bhanudeva, v. 7, *Ep. Ind.*, Vol. ix, p. 127.)

(38) Kamaṇya-śilā-stambha-kadambottambītamvaram ||

Viśaṁkaṭa-viṭaṁkālī-virājad raṅga-maṁḍapam |

‘ It is a large ruṅgamaṅḍapa raised on a collection of beautiful stone pillars and adorned with rows of spouts.’—(Krishnapuram plates of Sadāśivaraya, vv. 55, 56, *Ep. Ind.*, Vol. ix, pp. 336, 341.)

(39) Pāhini maṅḍapa kāraniyaḥ Akshasāmalāpaṇiyaḥ ḍamā karttavyaḥ pāshāna-īṭakāyam ghaṭitaḥ . . . ।

‘ Pāhini (the architect) constructed the maṅḍapa, aksha-sāma (?), and ḍamā (?) with stones and bricks.’—(The Chahamanas of Marwar, no. xiii, Sāṅḍarava stone inscrip. of Kelhanadeva, line 2 f., *Ep. Ind.*, Vol. xi, p. 48.)

(40) ‘ This inscription (the Chahamanas of Marwar, no. xvii) . . . is incised on a pillar in the Sabhā-maṅḍapa of the temple of Mahāvira.’—(*Ep. Ind.*, Vol. xi, p. 51.)

(41) Abhinava-nishpanna-prekshā-madhya-maṅḍape . . . ।

Suvarṇamaya-kalāśāropana-pratishṭhā kṛitā ।

‘ The ceremony of placing a golden cupola on the newly made central hall, intended for dramatic performances was carried out.’—(The Chahamanas of Marwar, no. xix, Jalar stone inscrip., lines 5, 6, *Ep. Ind.*, Vol. xi, p. 55.)

(42) Tenochchair bbodhi-maṅḍe śaśi-kara-dhavalāḥ sarvvato maṅḍapena kāntaḥ prāsāda csha smara-bala-jayinaḥ kārito loka-śāstuh ॥

‘ By him this beautiful mansion of the Teacher of mankind, who overcame the power of (the god) Smara, dazzling white as the rays of the moon with an open pavilion on all sides, has been caused to be made at the exalted Bodhi-maṅḍa’ (also called Vajrāsana, the miraculous throne under the Bodhi-tree at Bodh-Gaya, on which Buddha sat, when attaining Bodhi or perfect wisdom.)—(Bodh-Gaya inscrip. of Mahanaman, lines 10–11 *C. I. I.*, Vol. iii, F. G. I., no. 71, pp. 276, 278, 275 ; also Sanskrit and Old Canarese inscrip. no. 166, Bodh-Gaya inscrip. of Mahanaman, line 10 f., *Ind. Ant.*, Vol. xv, pp. 358, 359.)

(43) ‘ There are several other inscriptions in the outer parts of the (Velur) temple, viz., two on the pedestals of the two dvāra-palākas in front of the gopura, one on the left outer wall of the inner prakāra, and five on the floor of the alaṅkāramaṅḍapa.’—(*H.S.I.I.*, Vol. i, p. 127, first para.)

(44) ‘ We the great assembly of Manimangalam, . . . being assembled, without a vacancy in the assembly, in the large maṅḍapa (of) the Brahma-sthāna in our village . . . ’—(Inscrip. of Virarajendra I, no. 30, line 36, *H.S.I.I.*, Vol. iii, p. 70.)

(45) ‘ Brahma-priyan . . . caused to be made the stone work of a flight of steps, with tiger’s head at the bottom, for the abhisheka-maṅḍapa in the temple of Vaṅḍuvarāpati Emberumaṅ at Manimangalam . . . ’—(Inscrip. of Rajaraja III, no. 39, *H.S.I.I.*, Vol. iii, p. 86.)

(46) Śri-kusala-maṅḍapādi-yukta-rājaka-mālā karākhyā-padma-karābhīrāma-nūtana-omkārcśvara-deva-sthānam ।

‘ A beautiful new Oṃkāreśvara temple, a lotus ornament to the earth, which with its skilfully designed maṅḍapas, etcetera, might be called a royal lotus.’—(*Ep. Carnat.*, Vol. 1, pp. 38, f., 61.)

(47) ‘ This is the sacred marriage hall (Kalyāṇa-maṅḍapa) built (on the date specified) by Tirukkaṇam Ayyā Mudeliyār’s son Vedagiri Mudeliyār for the god Śrī-Subharāya Subhāmiyār of Alaśur.’

‘ This inscription is at Halasur, on the basement of the Kalyāṇa-maṅḍapa in the prakāra of the Subrahmaṇya temple.’—(*Ep. Carnat.*, Vol. ix. Bangalore Taluq, no. 14 ; Roman Text, p. 3 ; Transl., p. 7.)

(48) ‘ This is the outer maṅḍapa ( ? Churru-maṅḍapam) called Śrī-Rājendra-Śola-devar after the name of (the king) Śrī-Rājendra-Śola-devar, caused to be erected by Jakkiyappai, daughter of Tirbhuvanaiyam of Iṭṭakirai, at the foot of Sulka-malai, otherwise called Kanaka-parvatam (the golden mountain) in the Kaḍambanākkai-nāḍu.’—(*Ep. Carnat.*, Vol. x, Kolar Taluq, no. 115 ; Roman Text, p. 49 ; Transl., p. 44.)

(49) ‘ Agrahāra village, maṅḍapas, maṅḍapas for alms (bhikshā-maṅḍapa), and all other religious provisions’ . . . —(*Ibid.*, Vol. x, Mulbagal Taluq, no. 2 ; Roman Text, p. 82 ; Transl., p. 71.)

(50) ‘ Caused to be built in the temple of Jayambu-nāyakar the dancing hall (nirutta, i.e., nṛitta-maṅḍapam), the vestibule (nāḍai-maligai), the surrounding hall and the tower.’—(*Ep. Carnat.*, Vol. x, Bowringpet Taluq, no. 38a ; Roman Text, p. 175 ; Transl., p. 146.)

(51) Varadarāja-devara-mukha-maṅḍapada-sannidhiyalu Rājagambhīran emba kottalavanu.’

‘ In proximity to the maṅḍapa facing the god Varadarāja having erected the bastion named Rājagambhīra.’—(*Ep. Carnat.*, Vol. x, Malur Taluq, no. 1 ; Roman Text, p. 186 ; Transl., p. 155.)

(52) ‘ That Singa-Rāja had the two lines of fortification, round this city built, and holding the office of paṭṭana-svāmi by order of the god Nāyinār, so that all the people could see, for the god’s tirumāna had maṅḍapas made before and behind the temple (hindana-mundana-bhāgāda maṅḍapa), had a pond constructed called after Gopa Rāja the Gopasamudra, had a palace built for Gopa Rāja to the west of that pond, and to the right of the god, Singa-Rāja’s palace ; and that he might at sunrise and at evening twilight bathe at both times, and have a room for domestic sacrifice, from the threshold of which he might look to the spire of Varada Rāja’s temple . . . and at the eastern gopura which Kundapadaṇṇāyaka had built in front of the maṅḍapa facing the god (mukha-maṅḍapa).’—(*Ibid.*, no. 4 ; Roman Text, p. 187 ; Transl., p. 156.)

(53) ‘ Śeṭṭi Devan built a beautiful stone temple with a maṅḍapa in front of it.’—(*Ep. Carnat.*, Vol. x, Chintamani Taluq, no. 83 ; Transl., p. 258, para. 2.)



(54) 'That the king Prauḍha-Rāya (on the date specified, A.D.) 1426 being in the dāna-maṅḍapa, in the presence of the god Virūpāksha on the bank of the Tungabhadrā, for the purpose of making the great Kalpalatā gift. . . .'—(*Ep. Carnat.*, Vol. XII, Tumkur Taluq, no. 11 ; Transl., p. 5, para. 2.)

(55) 'Caused to be made the Honnā-devī-maṅḍapa.'

This expression is like those, as Vishṇu-maṅḍapa, where maṅḍapa is a detached shrine or temple.—(*Ibid.*, no. 26 ; Transl., p. 8.)

(56) 'His wife (with various praises) Kallarasiyamma, had the shrine of the god Sidda-Mallikārjuna renewed, and having the whole (temple) strengthened, had the two domes built, and the plastering done, had a portico made to the front of the temple, erected a bhoga-maṅḍapa. . . and building a tower and a hall for the god, made a grant of land to provide for the offerings (specified).'  
—(*Ibid.*, Gubbi Taluq, no. 29 ; Roman Text, p. 41, middle ; Transl., p. 23, line 6.)

(57) 'Presented at the feet of the god Chandra-śekhara the processional form of the god Śaṅkareśvara, a dīpamāle pillar, and a pātāla-maṅḍapa.'  
—(*Ep. Carnat.*, Vol. XII ; Tiptur Taluq, no. 70 ; Transl., p. 57.)

(58) 'At the time of the eclipse of the sun, in the presence of the god Virūpāksha on the bank of the Tungabhadrā, in the mukti-maṅḍapa to the sacrificer Nāganātha (descent, etc., stated), he granted the Timaḍuga village.'  
—(*Ep. Carnat.*, Pavugada Taluq, no. 4, Transl., p. 117 ; Roman Text, p. 193, f.)

(59) 'In the antarāla (interior) they erected a most beautiful raṅga-maṅḍapa, and a fine chandra-śāle (upper storey) according to the directions given by the king Timmendra.'  
—(*Ibid.*, Vol. XII, Pavugada Taluq, no. 46 ; Transl., p. 122, line 14 ; Roman Text, p. 203, v. 9.)

(60) 'Kailāśādres svatulyaṃ kalita-śuchi-guṇaṃ śrīmati śrī-śuchindre  
Vañchī-bhū-pāla-chuḍā-maṅḍa akṛita puro-maṅḍape chandra-  
mauleḥ ||

'Rāmavarmā, the crowning gem of the Vañchī sovereigns, constructed the front maṅḍapa of the moon-crested (Śiva) at Śuchindram, equalling Kailāśa in splendour, and full of the purest qualities.'  
—(Inscrip. in the Pagodas of Tirūkurunguḍi, in Tinnevely and of Śuchindram, in south Travancore, *Ind. Ant.*, Vol. II, p. 361 ; c. 2, v. 2, p. 362 ; c. 1, para. 2.)

(61) 'In the centre, fronting the single doorway, is a shrine or maṅḍapa covering a slab, on which is carved in relief a sitting figure with the right foot on an elephant, the left on a bullock.'  
—(*Ind. Ant.*, Vol. VII, p. 19, c. 1, last four lines.)

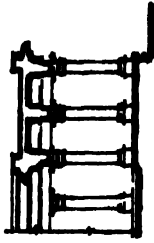
(62) Rambhā-patra-phala-prasūna-lalite sat-toraṅchchhādane nānā-  
varṇa-patāka-ketana-lasat-prānte mahā-maṅḍape |

# THE PAVILIONS

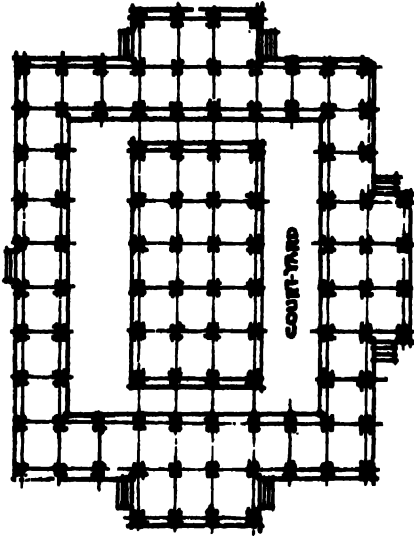
NOTE. -

1. THE RED LINES INDICATE THE NUMBER OF PARTS A PLAN CONTAINS.

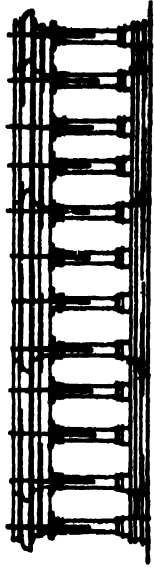
2. IN NĪLAKAṬĪAṆA PLAN EACH UNIT OF DĀYARĪBĪS REPRESENTS 8 PĒTĪS.



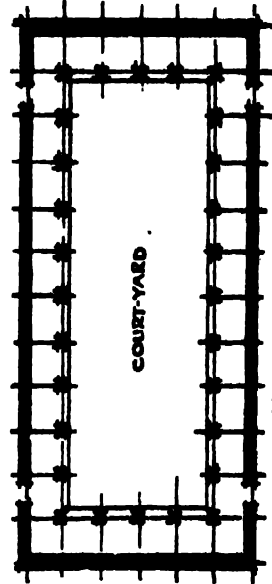
PART SECTION



ASSEMBLY HALL  
OF 100 COLUMNS, 9 PARTS SQUARE



CONJECTURAL ELEVATION OF THE HALL



KŪLA-DHĀRAṆA PAVILJOH  
24 BY 18 PARTS, 1016 SQUARE PARTS



Kuṇḍānām navakaṁ vidhāya vidhivad-viprair vidhāna-kshamaih  
kurmāścharya-karaṁ samāpayau idam Śrī-Rāṅganātho guruḥ ॥

(Inscrip. from Nepal, no. 23, inscrip. of Queen Lalitatripura  
Sundari, v. 3, *Ind. Ant.*, Vol. ix, p. 194.)

(63) 'On the east side of this great Stūbi or Vimāna stands the Veli-maṅḍapam or "outer hall," a plain rectangular building 160 feet long by 83 feet wide, with a flat roof supported by four rows of plain stone pillars . . .'

'Between the Veli-maṅḍapam or outer court and the great Vimāna, there is a three-storeyed building joining them together, called Mele-maṅḍapam, covering the transverse aisle between the north and south entrances by which the shrine is approached. This portico or transept is designed and completed in keeping with the grand scale and style of the Vimāna.'—(Gangai-Koṅḍapuram Śaiva temple, *Ind. Ant.*, Vol. ix, p. 128, c. 1.)

(64) Śrī-Brahma-Devara-maṅḍapavanu—presented the Brahma Deva maṅḍapa.'—(*Ep. Carnat.*, Vol. II no. 121; Roman Text, p. 88; Transl., p. 172.)

(65) 'Tupada-Vengatapa made a stone maṅḍapa and a well for the god Prasanna-Vengatarama to the north-west of the precincts of the temple of the god Paśchima-Rāṅganātha.'—(*Ep. Carnat.*, Vol. III, Seringapatam Taluq, no. 9; Transl., p. 8; Roman Text, p. 17.)

(66) 'Also land for the god Hanumanu newly set up in the maṅḍapa in the middle of the village, to which the god Rāma pays a visit at the Rāmanavamī (festival), i.e., the idol of Rāma is brought there on that occasion.'—(*Ibid.*, no. 13; Transl., p. 9; Roman Text, p. 21.)

It should be noticed that this maṅḍapa does not belong, as an attached or detached building, to any temple. It is by itself a temple. Such maṅḍapas or temples are named after the gods whose idols are consecrated in them, such as Vishṇu-maṅḍapa, Kāli-maṅḍapa, and so forth.

(67) 'His awful wife Rangamma, . . . had erected a maṅḍapa, with a large pond, and presented a palanquin set with jewels and all other kinds of gifts, a bank having grown up and being unsightly, he bought the ground and established there a maṭha, also endowing it so that 24 chief Vaidika Vaishṇava Brāhmanas of the Rāmānuja sect might be fed in the raṅga-maṅḍapa.'—(*Ep. Carnat.*, Vol. III, Seringapatam Taluq, no. 89; Transl., pp. 26-27; Roman Text, p. 57.)

(68) Śrī-Timma-daṅḍanāyaka mahisī Śrī-Rāṅga-nāyaki-rachitā ।

Sampat-kumāra-mahisī purataḥ pratibhāti raṅga-maṅḍapikā ॥

'Timma-daṅḍanāyaka's wife (Queen Consort) Rāṅga-nāyakī erected a raṅga-maṅḍapa in front of (the temple of) the goddess of Sampat-kumāra.'—(*Ibid.*, no. 97; Roman Text, p. 59; Transl., p. 28.)

In this sense maṅḍapa is most generally understood. This is what is called nāṭ (i.e., nṛitya or raṅga)-mandira, as stated above.

(69) ' Caused to be erected the raṅga-maṅḍapa of the god Keśava, . . . also the raṅga-maṅḍapa of the god Raṅganātha to the south-east of that village and a sabhā-maṅḍapa for . . . the village.'—(*Ep. Carnat.*, Vol. III, Tirumakūḍḷu-Narasipur Taluq, no. 58 ; Transl., p. 78.)

(70) ' The accountant Liṅgana, son of . . . with devotion erected (a maṅḍapa of) 12 aṅkaṇas near the big aśvattha tree, in proximity to the Matsya-tīrtha, on the bank of the Arkapushkariṇī.'—(*Ep. Carnat.*, Vol. IV, Yedatore Taluq, no. 3 ; Transl., p. 52 ; Roman Text, p. 84.)

(71) ' The manager of his (Kṛiṣṇa-Deva-mahārāya's) palace, . . . made for the god Virabhadra . . . , a gandhagoḍi-maṅḍapa, in front of the raṅga-maṅḍapa.'—(*Ep. Carnat.*, Nāgamaṅgala Taluq, no. 4 ; Transl., p. 114 ; Roman Text, p. 188.)

(72) ' Haridāsa-Rāūta, son of . . . set up in front of the god Prasanna-Mādhava of Bellūr a festival (utsava) maṅḍapa, a pillar for lights (dīpa-māleya-kambha) and an altar for offerings (bali-pītha).'—(*Ep. Carnat.*, Vol. IV, Nāgamaṅgala Taluq, no. 42 ; Transl., p. 124 ; Roman Text, p. 213.)

(73) ' Caused a uyyāle-maṅḍapa to be erected for the spring festival of the god.'—(*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 12 ; Transl., p. 46 ; Roman Text, p. 106.)

(74) ' Newly built the Kalyāṇa-maṅḍapa (Kaṭṭiṣi samarpisidā Kalyāṇa-maṅḍapa aṅkaṇa) as an offering at the lotus-feet of the god Chenna-Keśava.'—(*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 21 ; Transl., p. 52 ; Roman Text, p. 119.)

(75) The grant was made ' that a pond and maṅḍapa may be constructed in front of the temple upper storey for the spring water-festival (vasanta-kāladalli abage-seve naḍeve-bagge) for the god.'—(*Ibid.*, no. 29 ; Transl., p. 54 ; Roman Text, p. 122, line 15 f.)

(76) ' He constructed a pond for a raft and a Vasanta-maṅḍapa ; and in order to provide for ten days' raft festival in Phālguna, for the oblation and feeding of Brāhmanaṣ during the festival . . . he made a grant.'—(*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 78 ; Transl., p. 64-65 ; Roman Text, p. 150.)

(77) ' Built a brick enclosure for the temple, erected a kalaśa to it, and a wooden raṅga-maṅḍapa, in front, had the whole plastered,' . . . —(*Ep. Carnat.*, Vol. V, Part I, Arsikere Taluq, no. 8 ; Transl., p. 115, line 6 f. ; Roman Text, p. 263, line 9.)

(78) ' Seated on the diamond throne in the maṅḍapa in front of the Basaveśvara temple in the square in the middle of the street of the sun and moon in the Kaṅṭhīrāya-pete of Bāṅāvāra situated to the south o Śrīśaila.'—(*Ibid.*, no. 94 ; Transl., p. 150, line 2 f.)

(79) ' (On the date specified), all the Brāhmanaṣ of the immemorial agrahāra Brāhma-samudra, agreeing among themselves, and going to the prabhu-maṅḍapa (pabu-maṅḍapadalli) and seating themselves, Dāmoja,

son of the carpenter Mādiyōja, having worshipped their feet and presented 5 pa, they granted to him a rent-free estate (specified).—(*Ep. Carnat.*, Vol. vi, Kaḍūr Taluq, no. 57; Transl., p. 12; Roman Text, p. 38-39).

(80) 'Caused a bhoga-maṅḌapa to be erected in front of the temple of the god Janārddana.'

It should be noticed, that the bhoga-maṅḌapas are generally built, on the side, and not in front, of the temple.—(*Ep. Carnat.*, Vol. vi, Kadūr Taluq, no. 91; Transl., p. 16; Roman Text, p. 52.)

(81) 'Caused the Nandi-maṅḌapa to be erected.'—(*Ibid.*, Chikmagalur Taluq, no. 76; Transl., p. 44; Roman Text, p. 111, line 7.)

(82) 'Outside, it (the temple of Sambhava-nātha) is very plain and unpretentious, whilst inside it consists of three apartments—a maṅḌapa or porch, the Sabhā-maṅḌapa, or assembly hall, and the nij(a) mandira or shrine. The floors are laid with coloured marbles and the roof supported on pillars.'

'The maṅḌapa or hall is roofed by an octagonal dome supported, as usual, on twelve pillars.' . . .—(Ahmadabad Architecture, Burgess, *Arch. Surv.*, New Imp. Series, Vol. xxxiii, pp. 87, 90.)

(83) See Mukha-maṅḌapa, of Someśvara temple at Kolar.—(*Mysore Arch. Reports*, 1913-14, Plate vii, fig. 3, p. 20.)

(84) 'Its (Kandāriya Mahādeo temple's) general plan is similar to that of most of the larger mediaeval temples of Northern India (see its plan, Plate xcvi). It has the usual ardha-maṅḌapa or portico, the maṅḌapa or nave, the mahā-maṅḌapa or transept, the antarāla or ante-chamber, and the garbhagrīha or sanctum, each of which has its separate pinnacled roof rising in regular gradation from the low pyramid of the entrance to the lofty spire of the sanctum.'—(Cunningham, *Arch. Surv. Reports*, Vol. II, p. 419, no. 3.)

'There are eighteen carved pillars, each of 9' 9" high, supporting the dome of the outer hall or the ardha-maṅḌapa, which affords an area of 16' 3" inside for loungers and devotees to rest it.'—(*Ibid.*, Vol. xxiii, p. 135.)

(85) 'MaṅḌapa—any open or enclosed building in connexion with a temple. If used for any purpose, the distinctive name is prefixed.'—*Rca.* (Chalukyan Architecture, *Arch. Surv.*, New Imp. Series, Vol. xxi, p. 39.)

(86) Madhya-maṅḌapa—second hall of a temple.

Mahā-maṅḌapa—central hall of a temple, the nave.

MaṅḌapa—the porch of a temple.—(Vincent Smith, Gloss. to Cunningham's *Arch. Surv. Reports.*)

It should be noticed that the architectural treatises, general literature, and epigraphical records corroborate one another as regards the various types of this class of buildings.

MAṄḌAPIKĀ (*see* MAṄḌAPA)—A small pavilion; a custom house.

- (1) Sri-Naddūla-mahā-sthāne śrī-Saṅḍeraka-gachchhe śrī-Mahā-vīradevāva śrī-Naddūla-talapada-śulka-maṅḍapikāyāṁ māśānumāśarthadhūpa-tailārthaṁ ।

(Granted to the Jaina temple of) 'Mahāvīradeva in the Saṅḍeraka gachchha, at the holy place (Mahāsthāna) of Naddūla, a monthly (sum of five drammas) (to be paid) from the custom house in the grounds (talapada-svatala) of Naddūla.'

For passages in which the term maṅḍapikā occurs, compare *Ep. Ind.*, Vol. I, p. 114, line 27; p. 173, line 6 (Siyadoni-śātka-maṅḍapikā); p. 175, line 19; p. 177, lines 29 and 30; p. 179, line 45; p. 262, line 3 (pattana-maṅḍapikā); *Ind. Ant.*, Vol. XIV, p. 10, col. 2 (Śrī-pathāstha-maṅḍapikā); *Journ. As. Soc. Beng.* Vols. LV, Part I, p. 47; IV, p. 48, and V., Bhāvnagar inscrip., p. 205, line 7. Śulka-maṅḍapikā occurs, e.g., in Bhavnagar inscrip., p. 158 f., lines 10, 15 and 18. The meaning of maṅḍapikā is suggested by the Marāṭhi māṅḍavī, a custom house.' Prof. Kielhorn.—(The Chahamanas of Naddūla, no. A, Nadol plates of Alhaṇadeva, lines 22-23, *Ep. Ind.*, Vol. IX, pp. 66, 63, and note 8.)

- (2) Cf. Maṅḍapikā-dāyāt śreṣṭhī-nara-simha-go-vṛiṣha-dhīrādi-tyaiḥ ।

(Sherghadh stone inscrip., lines 1-2, *Ind. Ant.*, Vol. XL, p. 176.)

(3) Maṅḍapikā—evidently means some public or official building of the town.—(*Ind. Ant.*, Vol. XIV, p. 10, second col., line 5; and *Journ. Beng. As. Soc.*, Vol. XXX, p. 332, last line; Siyadoni inscrip., lines 6, 19, 29, 30, 45, *Ep. Ind.*, Vol. I, p. 166, 173 f.)

- (4) Śrī-Timma-daṅḍanāyaka mahisi Śrī-Raṅga-nāyaki rachitā ।

Sampat-kumāra-mahisi-purataḥ pratibhāti raṅga-maṅḍapikā ॥

'Timma-daṅḍanāyaka's wife (Queen Consort) Raṅga-nāyaki erected a raṅga-maṅḍapa in front of (the temple of) the goddess of Sampat-kumāra.'—(*Ep. Carnat.*, Vol. III, Seringapatam Taluq, no. 97; Roman Text, p. 59; Transl., p. 28.)

MAṄḌI (*see* BODHIKĀ)—The crowning part of the capital of a column, a market-place, a market.

(*Suprabhedāgama*, XXX, 57, 107; *see* under STAMBHA.)

MATTA-VĀRAṆA—An elephant in rut, a kind of entablature.

(*M.*, XVI, 19, also L, 279; *see* under PRASTARA.)

MADIRĀ-GRIHA (ŚĀLĀ)—A drinking house, a tavern, an ale-house.

Śiva-vaiśravaṇāśvi-śrīmadirā-grihaṁ cha pura-madhyc kārayet ।

(*Kauṭīlya-Artha-śāstra*, Chap. XXV, p. 55-56.)

MADDALA (*see* VALABHI)—A synonym of valabhī or a sloping roof.

(*M.*, XVI, 51; *see* under (BA)VALABHI.)

MADHŪCHCHISHṬA—Wax, the casting of an image in wax.

*Mānasāra* (Chap. LXVIII, 1-56, named Madhūchchishṭa) :

The chapter opens with an enumeration of phalli and ascetics as well as architects whose images are to be cast in wax (lines 2-19). The architects, called sthapati and sthāpaka, make the can for preparing the wax therein, but the actual preparation is not explicitly described. All kinds of images, temporary or permanent, stationary or movable, have to be cast in wax. The process seems to be this (lines 20-44) : some part of the image is covered with a thin copper-leaf, and the wax is laid on two or three aṅgulas deep. Mulikā(?) is spread above the part covered with wax. The idol is heated after it has been besmeared with wax. If the master likes, the process of smearing may be done with melted iron too. The half of the image, not covered with earth, is washed in water. This process is repeated several times. If any of the minor limbs be lost through this process, the image should be furnished with it again after having been heated. But if the head or the middle of the body be damaged, the whole image should be changed. If the master does not like the image, it should be recast.

The whole process has to be performed through many ritualistic ceremonies in different stages.

In other texts the process of casting an image in wax is much more clearly described :

‘ If images have to be cast in metal, the wax must first be melted and poured (out of the mould) and all defects removed with cloth.’—(*Karaṇāgama*, II, 41.)

‘ If the images be required to be made of earth, rods (of metal or wood) must be (inserted in them) ; if of metal it must first be prepared well in wax.’—(*Suprabhaddāgama*, XXXIV, 21.)

‘ If an image is to be made of metal, it must be first made of wax, and then coated with earth ; gold and other metals are purified and cast into (the mould) and a complete image is thus obtained by capable workmen.’—(*Vishṇu-saṁhitā*, Paṭala XIV.)

‘ In regard to bronze images ’ says Mr. Rao ‘ it is believed by some that India could not have known the Cire perdue method of making metal images earlier than about the tenth century A.D. and that India must have, therefore, borrowed it from Europe. That the art of casting metals



in wax moulds is much earlier in India can be shewn in more ways than one.' In support of his assertion, Mr. Rao gives the three above-mentioned quotations.—(*Elements of Hindu Iconography.*)

**MADHYA-KĀNTA**—A class of the twelve-storeyed buildings once prevailing in the central country (*see* details under PRĀSĀDA).

Madhyamālaya-vistāre-trayas-trimśad-vibhājite |

Tri-bhāgaṁ kūṭa-vistāraṁ madhya-bhadraika-bhāgikam |

Mahā-śālā navāśraṁ syāt śeṣaṁ pūrvavad ācharet |

Madhya-kāntam iti proktam |

(*M.*, xxx, 11-14.)

**MADHYA-KOSHṬHA**—The middle compartment, the central hall.

(*M.*, xxxiii, 305, etc.)

**MADHYA-NĀSĪ** (*see* NĀSĪ)—The middle vestibule.

(*M.*, xv, 119, 124, etc.)

**MADHYA-BHADRA** (*see* BHADRA)—The middle tabernacle, the central porch or hall.

(*M.*, xv, 110 ; xix, 177 ; xxxiii, 380, etc.)

**MADHYA-BHUVĀṄGA**—A moulding of the door.

(*M.*, xxxix, 72.)

**MADHYA-RAṄGA** (*see* MUKHTA-PRAPĀṄGA)—The central theatre, the enclosed courtyard, the quadrangle surrounded by buildings on four sides and open at the top.

*Mānasāra* (Chap. XLVII, 1-36 named Madhya-raṅga,) refers in this connection to the open quadrangle, stone column and grain-column (mukta-prapāṅga, śilā-stambha and dhānya-stambha). The Madhya-raṅga is provided with dwarf pillars, entablatures, platforms, daises, pedestals, tabernacles, vestibules, pent-roofs, top-rooms, etc. The upper portion is adorned with figures of leographs and crocodiles.

The meaning of the term is clear from the contents of this chapter and also from the quotations given below :

Madhya-raṅgaṁ tad-uddīśya chordhve'laṅkāra(m) vakshyate |

Evam tu chordhvālaṅkāraṁ madhya-raṅge tu vinyaset |

(*M.*, xvi, 155, 169 ; *see* also lines 156-168.)

In connexion with maṇḍapas or pavilions.

(*M.*, xxxiv, 128, 210, 234, 324, 456, etc.)

Gṛiḥe vā madhya-raṅge vā pārśve vā chaiśa-koṇake (aṅkurārpaṇam kuryāt) |

(*M.*, xxxvii, 13.)

The central part of the coronation hall.—(*M.*, xlix, 183.)

**MADHYA-ŚĀLA** (*cf.* ŚĀLĀ)—The middle hall, a special interior chamber, a kind of council hall.

Kshudra-śālāshṭadhā proktaṁ koṣṭha-śālā-chatusṭayam ।  
Madhya-śālā-tri-bhāgena bhadrā-śālā cha madhyame ।

(*M.*, xxvi, 12-13 ; *see also M.*, xx, 56, etc.)

**MANDARA**—A type of building which is 30 cubits wide, has ten storeys and turrets.

(1) Trīmśad-dhastāyāmo daśa-bhaumo mandaraḥ śikhara-yuktaḥ ।

(Compare this with Kāśyapa quoted by the commentary and given below) :

Mandaraḥ śikharair yuktaḥ śaḍ-āsrir daśa-bhūmikah ।  
Trīmśad-dhastāṁś cha vistīrṇaḥ prāsādo'yaṁ dviṭiyakaḥ ॥

(*Bṛihat-saṁhitā*, lvi, 21, *J. R. A. S.*  
N. S., Vol. vi, p. 319.)

(2) *Bhaviṣya-Purāṇa* (Chap. cxxx, v. 28 ; *see* under PRĀSĀDA).

(3) *Matsya-Purāṇa* (Chap. cglxix, vv. 28, 32, 47, 53 ; *see* under PRĀSĀDA).

(4) *Agni-Purāṇa* (Chap. civ, vv. 14, 15 ; *see* under PRĀSĀDA).

(5) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 21-22, 24-25 ; *see* under PRĀSĀDA).

(6) A building with four śālās (compartments) and eight kūṭas (towers or domes) :

Mand(h)ara-nāma ity-uktaś chatuḥ-śālāśṭa-kūṭakam ॥

(*Suprabhedāgama*, xxxi, 43.)

**MANDIRA**—A type of building, a hall, a room, a temple, a shrine.

(1) A type of rectangular building (*Garuḍa-Purāṇa*, Chap. xlvii, vv. 21-22, 26-27 : *see* under PRĀSĀDA).

(2) Three kinds of mandira (*Vāstu-vidyā*, ed. Ganapati Śāstri, vii, 15-18) :

(3) Shoḍaśa-mandira-chakra (*Vāstu-tattva*, 1853, p. 1 f., *see* under GRĪHA-VINYĀSA).

(4) Paritaḥ praṇavākāra-prākāra-valayāṁchitam ।

Kamaṇya-śālā-stambha-kadambottāmbitām̐varam ॥

Viśamkaṣṭa-ṅga-viṭam kālī-virājad-raṅga-marṅgam ॥

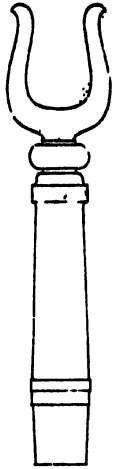
Vidhāya vipulottuṅga-gopuraṁ deva-maṁdiram ॥

Viśālāṁ ratha-viṭhīm cha syaṁdanāṁ maṁdaropamam ।

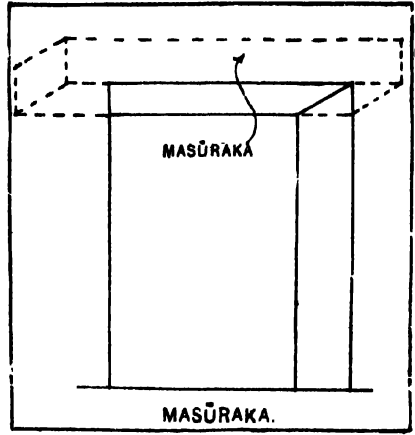
Tatra pratishṭhitārya-śrī-Tāraka-brahma-rūpiṇe ॥

‘ Built a temple (at Krishṇāpura) which was encircled by a wall of the shape of the praṇava and a broad and lofty tower. It has a large raṅga-maṇḍapa raised on a collection of beautiful stone pillars and adorned with rows of spouts. He built a car like the Mandara mountain and also broad



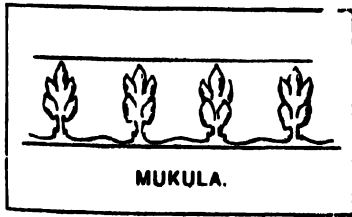


YŪPA STAMBHA.

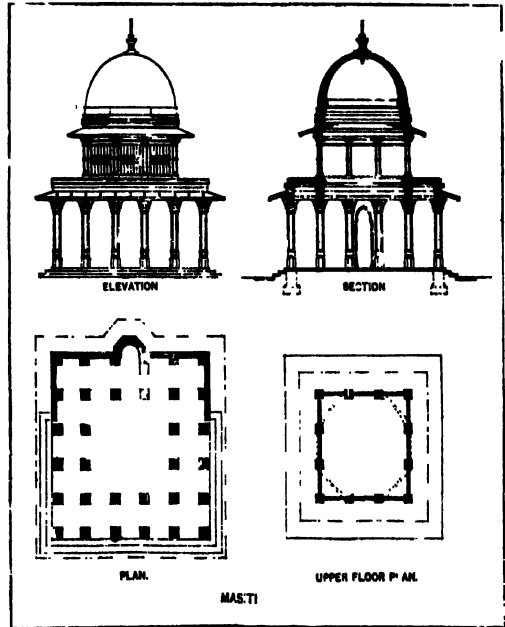


MASŪRAKA

MASŪRAKA.



MUKULA.





Evam̄ chatuḥ-shashṭi-masūrakāṇi śāstroкта-māncua vibhājītāni ।

(*Ibid.*, 393-394.)

Āhatya(m) asṭadhā harmyam̄ gaṇya-mānam̄ ihochyate ।

Utsedhe chāshṭa-bhāge tu ekām̄sena masūrakam̄ ।

Dvi-bhāgam̄ chāṅghri-tuṅgam̄. . . ।

(*M.*, XIX, 20-22 ; see also XLVII, 5 ; XXXIV, 266, etc.)

(2) Tad-varddhitopapīṭham̄ vā tad-varddhita-masūrakām̄ ।

—Pādāyāma-samottūṅga-masūraka-yutām̄ tu vā ।

(*Kāmikāgama*, XXXV, 115.)

Masūra implies the cornice of the entablature.

(*Ibid.*, I, IV, 47 ; see under PRĀSTARA.)

Masūra, a synonym, as stated, but apparently a component part, of adhiṣṭhāna or base :

Masūrakam̄ adhiṣṭhānam̄ vastvādhāram̄ dharātalam̄ ।

Talam̄ kuṭṭimādy-aṅgam̄ adhiṣṭhānasya kirtitam̄ ॥

(*Ibid.*, LV, 202.)

MAHĀ-KĀNTA—A class of eight-storeyed buildings.

(*M.*, XXVI, 35-39 ; see under PRĀSĀDA.)

MAHĀ-GŌPURA—The gate-house of the fifth court or at the extreme boundary of a compound.

(*M.*, XXXIII, 10 ; see under GŌPURA and PRĀKĀRA.)

MAHĀ-GRĀMA—A large village.

(*M.*, X, 79 ; see details under GRĀMA.)

MAHĀ-TAULI—A synonym of prachchādāna or roof, the top-floor.

(*M.*, XVI, 57.)

MAHĀ-DVĀRA—The great door, the chief or outer gate of a village, town or house.

(*M.*, IX, 290, 315 ; see under DVĀRA.)

Mahā-dvaram̄ tu sarveshām̄ lāṅgalākāra-sannibham̄ ।

Kapāṭa-dvaya-samyuktam̄ dvārāṇām̄ tat pṛithak pṛithak ।

(*M.*, IX, 360-361 ; see also XXXI, 79.)

MAHĀ-NĀSĪ (see NĀSĪ)—A large vestibule.

(Nāsikā-śikhāraṇvītam̄) tad-ardham̄ stūpikottuṅge tan-māhā nāsikā-śraye ।

(*M.*, XV, 91.)

Dvi-lālāṭe mahā-nāsī ekādaśa-śikhāraṇvītam̄ ।

(*M.*, XXXIII, 202, etc.)

MAHĀ-PADMA—A type of round building.

(1) *Agni-Purāṇa* (Chap. CIV, vv. 17-18; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 28-29; see under PRĀSĀDA).

MAHĀ-PATṬA—A moulding of the base, a large fillet.

(*M.*, XIV, 301; see the lists of mouldings under ADHISHTĀNA.)

MAHĀ-PĪṬHA—The pedestal, a site plan, the lower part of the phallus :

A site plan in which the whole area is divided into sixteen equal squares.—(*M.*, VII, 5, 61; see under PADA-VINYĀSA.)

*Cf.* Mahā-pīṭha-pade rathyā dikshu dikshu trayam tathā |

(*M.*, IX, 429, etc.)

The pedestal of an image :

Padma-pīṭham mahā-pīṭham tri-mūrtinām cha yojayet |

(*M.*, LI, 86, etc.)

MAHĀ-MANḌAPA (see under MANḌAPA)—The great hall of entrance to the main shrine of temples.

(Chālukyān Architecture, *Arch. Surv.*, New Imp. Series, Vol. XXI, p. 39.)

See under MANḌAPA :

Mangalagiri pillar inscrip. (vv. 44, 47, 51, *Ep. Ind.*, Vol. VI, pp. 114, 115, 123, 124, 125).

Two Jain inscrip. of Iruggappa. (no. B, line 2, *ibid.*, Vol. VII, p. 116).

Inscrip. from Nepal (no. 23, inscrip. of Queen Lalita-Tripurā Sundari, v. 3, *Ind. Ant.* Vol. IX, p. 94).

‘This building (mahā-maṇḍapa) stands in the east central portion of the large court. . . it originally stood detached from the central vimāṇa.’

‘The plan is a rectangle with the greater length from north to south. The four sides are open in the centre, and on each façade, a portion of the wall is returned along the several elevations from the four corners. The east front has the entrance divided into three bays by two square piers, with a responding pilaster on the return wall at each side.’

‘The west side or back is similarly divided, but the piers are octagonal for a portion of their length.’

‘The north and south entrances are simple openings, with pilasters on the sides, undivided by piers.’

‘Two yālis on the back responding pilasters are abutted against and partly covered by the east wall of the modern ardha-maṇḍapam. The forated window in the east wall of the ardha-maṇḍapam opens in to the mahā-maṇḍapam.’—(Pallava Architecture, *Arch. Surv.*, New. Imp. Series, Vol. xxxiv, p. 36, paras. 1, 2, 3, 4, 8 and 10; see also Plate L.)

‘The mahā-maṇḍapa was roofed also by overlapping courses of stones : the square corners were gradually rounded off by successive small portions, till it formed an octagon, over which the circular roof proper rested.’—(Cunningham, *Arch. Surv. Reports*, Vol: viii, p. 171, para. 2.)

**MAHĀ-MARYĀDĀ**—The fifth enclosure (prākāra) at the extreme boundary of a compound, the gate-house thereof is called mahā-gopura or dvāra-gopura.

(*Suprabhedāgama*, xxxi, 118, 125; see under PRĀKĀRA.)

**MAHĀ-VĀJANA**—A large fillet, a moulding of the entablature.

(*M.*, xvi, 69; see the lists of mouldings under PRĀSTARA.)

**MAHĀ-VṚITA**—A kind of phallus.

(*M.*, lii, 2; see under LIṄGA.)

**MAHĀ-VṚITTA**—A kind of joinery.

(*M.*, xvii, 102; see under SANDHI-KARMAN.)

**MAHĀ-ŚĀLĀ**—A large hall.

*Cf.* of the sixteen parts width of a building the mahā-śālā is seven parts broad.—(*M.*, xxvi, 10, etc.)

**MAHĀSANA**—A site plan in which the whole area is divided into 225 equal squares.

(*M.*, vii, 18-20; see under PADA-VINYĀSA.)

**MAHĀMBUJA**—A large cyma, a moulding of the pedestal.

(*M.*, xiii, 91; see the lists of mouldings under UPARIṬHA.)

**MĀGADHA(-KĀNTA)**—A class of twelve-storeyed buildings once prevailing in the country of Magadha.

Tad evam ānu-śālā madhye bhādra-śālaika-bhāgikam |

Evam māgadha-kāntam syāt karṇa-kūṭa-sabhadrakam |

(*M.*, xxx, 33-34; see also 31-32 under VAŚĪA-KĀNTA.)

**MĀNI-BHADRA** (see MĀNI-BHADRA)—A pavilion with sixty-four columns.

(*Suprabhedāgama*, xxxi, 103; see under MAṆḌAPA.)



**MĀTRĀṄGULA** (*see* under **ĀṄGULA**)—A measure equal to the middle digit of the middle finger in the right hand of the architect or priest, employed in measuring the sacrificial objects like the kuśa-grass or seat, the spout of a ladle, and the ladle, etc.

(*Suprabhedāgama*, xxx, 4-5, 7-8 ; *see* under **ĀṄGULA**.)

**MĀNA**—A house well measured (*A.-V.*, ix, 3 ; iii, 12). The measurement of height or length.

(1) The linear measurement is divided into six kinds—Māna (Āyāma, Āyata, Dīrgha), Pramāṇa, Parimāṇa (Vistāra, Tāra, Striti Vistrīti, Vistrīta, Vyāsa, Visārita, Vipula, Taṭa, Vishkambha, Viśāla), Lamba-māna (Sūtra, Unmita), Unmāna (Bahala, Ghana, Miti, Uchchhrāya, Tuṅga, Unnata, Udaya, Utsedha, Uchcha, Nishkrama, Nishkriti, Nirgama, Nirgati, Udghama), and Upamāna (Nivra, Vivara. Antara).

The measurement from the foot to the top of the head is called Māna which is in fact nothing but height. Pramāṇa is the measurement of breadth (vistrīta). Parimāṇa is the measurement of width or circumference (paritala). Lamba-māna is the measurement along the plumb lines or the lines drawn perpendicularly through different parts of the body, Māna, or the measurement of height being determined by the surface of the body. Unmāna is the measurement of thickness (nimna) or diameter. And Upamāna is the measurement of interspace (antara), such as the distance between the two feet of an image ; this measurement is apparently taken from one plumb line to another :

Mānaṁ chāpi pramāṇaṁ cha parimāṇaṁ lamba-mānakam ।  
 Unmānam upamānaṁ cha mānaṁ padmaṁ samīritam ।  
 Pādāṅgushṭhi-sasīmāntaṁ śiro'ntaṁ mānaṁ chāpi prakathyate ।  
 Pramāṇaṁ vistrītaṁ proktaṁ paritaḥ parimāṇakam ।  
 Tat-sūtrāl lamba-mānaṁ syān nimnam unmānam uchyate ।  
 Avāntaropamānaṁ syād bimbodayādi-sarvaśuḥ ।  
 Mānam evaṁ tu śaḍ-bhedaṁ māncnāṅgūni mānayet ।

(*M.*, lv, 3-9.)

The primary measurement (ādi-māna) is but the comparative measurement and is divided into the following nine kinds :

The height of an image is determined by comparing it with (i) the breadth (tāra) of the main temple (harmya), (ii) the height of the sanctuary or central hall (garbha-griha), (iii) the length of the door (dvāramāna), (iv) the measurement of the basement (udhishṭhāna), (v) cubit, (ṣ) tāla (a span), (vii) aṅgula (finger's breadth), (viii) the height of

the worshipper, and (ix) the height of the riding animal (vāhana) of the principal idol :

Ādimāna-vidhir̄m samyak(-g) lakṣhaṇam̄ cha ihochyate ।  
 Harmya-tāra-vaśān mānaṁ garbha-geha-vaśodayam ।  
 Dvāra-māna-vaśāt tuṅgam adhishṭhāna-vaśodayam ।  
 Hasta-māna-vaśān mānaṁ tāla-māna-vaśodayam ।  
 Aṅgulēnāpi chottuṅgaṁ yajamāna-vośodayam ।  
 Mūla-bera-vaśān mānam uttamādi trayam̄ trayam ।

(M., LV, 10-15.)

Each of these nine measures is again divided into nine kinds :

Tasmād ckaṁ tu prayekkaṁ nava-mānam ihochyate ।

(Ibid., 22.)

Under (i), (ii), (iii), (iv), the proportions naturally vary on various occasions ; no specific rules are, therefore, prescribed.

The details of (v) cubit or hasta and (vii) aṅgula will be found under the term ' Aṅgula ' and the details of (vi) tāla are given under ' TĀLA-MĀNA.'

Of the division under (viii) the details of the height of an image as compared with the height of the worshipper are given here. The height of the image may be equal to the full height of the worshipper, may extend up to his hair-limit (on the forehead), or, as sometimes stated, to the eye-line, nose-tip, chin, arm-limit (to the shoulder), breast, heart, navel, and sex organ :

Kanyasād uttamāntaṁ syād yajamānodayaṁ param ।  
 Keśāntaṁ nāsikāgrāntaṁ hanvantaṁ bāhu-sinakam ।  
 Stanāntaṁ hṛdayāntaṁ cha nāvyaṁ meḍhra-sinakam ।  
 Navadhā kanyasāntaṁ syāt sthāvaram̄ jaṅgamodayam ।

(Ibid., 30-33.)

And of the division under (ix) the height of the riding animal (vāhana) as compared with the height of the principal idol (mūla-bera) admits of similar nine kinds as under (viii) (see details under UTSAVA and KAUTUKA).

Hasta (v) and aṅgula (vii) are the real units, employed equally in measuring both architectural and sculptural objects.

The rest are exclusively sculptural and comparative measures. The similar measures have also been prescribed for architectural objects. The architectural ' Gaṇya-māna ' or the comparative heights of the component members of a structure corresponds to the sculptural ' Tāla-māna ' or the comparative heights of the component limbs of a statue (see details under GAṆYA-MĀNA and TĀLA-MĀNA).

Five proportions of the height, as compared with the breadth of an architectural object, are given under five technical terms, namely, Śāntika,

Paushtika, Jayada, Sarva-kāmika or Dhanada, and Adbhuta (*see* details under UTSEDHA).

The 'Ghana-māna' or the measurement by the exterior and the 'Aghana-māna' or the measurement by the interior are exclusively architectural (*see* details under these terms).

Like the sculptural terms Māna, Pramāṇa, Parimāṇa, Lamba-māna, Unmāna and Upamāna, there are architectural terms also to express length, breadth and width, e.g. dīrgha (for dairghya), tāra, vistāra, viśāla, vistṛiti, vistṛita, vishkambha, etc. Māna as stated above is the technical name for sculptural height; but to express the same idea the general terms for height, such as unnati, unnata, utsedha, etc., are also used. Māna is also used in its general sense of measurement, area, etc. Pramāṇa and Parimāṇa are also used in their general senses of length, breadth, width, etc. (Further details will be found under these terms.)

(2) Ataḥ-param pravakshyāmi mānonmānaṁ viśeshataḥ ।

'After this I shall speak about the Māna and Unmāna measurements in particular.'

This is followed by an account of various measures. (Note the different tāla measurements employed in statues.)

(*Matsya-Purāṇa*, Chap. CCLVIII, v. 16.)

(3) Mānaṁ tad-vistāraṁ proktam unmānaṁ nāham eva cha ।

(*Suprabhedāgama*, xxxiv, 35.)

(4) Parimāṇonmāna-mānaṁ dhāryaṁ rāja-vimudritam ।

Guṇa-sādhana-saṁdakshā bhavaṁtu nikhilā janāḥ ॥

Prof. Benoy Kumar Sarkar's translation of 'Parimāṇa' by 'standard of measurement for lands,' 'Unmāna' by 'unit of measurement for liquids,' and 'Māna' by 'unit of measurement for grains' is untenable.

(*Śukranītisāra*, ed. Oppert, I, 310.)

MĀNA-BHADRA—A pavilion with twenty-six pillars.

(*Matsya-Purāṇa*, Chap. CCLXX, v. 12; *see* under MAṆḌAPA.)

MĀNA-MANDIRA (*see* MANDIRA)—The observatory.

*Cf.* The observatories at Benares, Delhi, Ujjain, Mathura, and Jaipur.

(*See Ind. Ant.*, Vol. xxxv, p. 234.)

MĀNAVA—Relating to Manu or human being, a pavilion with twenty-eight pillars.

(*Matsya-Purāṇa*, Chap. CCLXX, v. 12; *see* under MAṆḌAPA.)

MĀNĀṄGULA (*see* under AṄGULA)—The standard measure (equal to  $\frac{3}{4}$  inch), the unit of length.

The smallest measure is the atom or paramāṇu, i.e., the particle of dust visible in the sunshine through a lattice—(*Bṛihat-saṃhitā*, LVIII, 1).

8 atoms=1 car-dust.

8 car-dusts=1 hair's end.

8 hair's ends=1 nit.

8 nits=1 louse.

8 lice=1 barley corn.

8 barley corns=1 mānāṅgula.

This standard āṅgula measure is stated to be used in measuring the architectural objects like the villages, lands, and buildings, etc.

(*Suprabhedāgama*, XXX, 2-3, 6-7; see under AṅGULA.)

MĀNUSHA—Relating to the human being, a kind of phallus.

(*Kāmikāgama*, I, 35, 38; see under LIṅGA.)

MĀRGA—A road, a street, a way, a path, a lane, a passage, a canal, a course.

Chañḍālānām praveśāya nirgamāya malasya cha |

Jalasya nirgamārtham tu kshudra-mārgāḥ praśamsitāḥ ||

(*Kāmikāgama*, XXXVIII, 8.)

MĀLIKA(-KĀ)—A class of buildings, a type of pavilion.

(1) Kuḍyasyānta-pradeśe tu yuktyā chāvṛita-mālikam |

Mālikopari vapra(m) syād adhishṭhānam samodayam |

(*M.*, XXXI, 60, 64.)

A type of pavilion (maṇḍapa) :

Evam tu mālikākāram śesham prāg-uktavan nayet |

(*M.*, XXXIV, 315; see for description 297-314.)

Maṇḍape chordhva-kūṭam syān mālikākṛiti(m) vinyaset |

(*M.*, XXXIV, 291.)

(2) Kechid vai mālikākārā kechid vai gopurākṛitiḥ ||

(*Suprabhedāgama*, XXX, 123; see for full context 115-122, under PRĀKĀRA.)

Tad-bāhye'bhyantare vāpi mālikā-maṇḍapam hi vā ||

(*Ibid.*, XXXI, 128.)

(3) Tā (śālā) eva mālikāḥ proktā mālāvat kriyate yataḥ ||

Pañcha-daśa-karāntam tu kuryād āvṛita-maṇḍapam ||

Maṇḍapena vinā vāpi tena mānena pīṭhikā |

Vibhadrā vā sabhadrā vā karatavyā mālikā budhaiḥ ||

(*Kāmikāgama*, XXXIV, 6, 99; 100.)

*Kāmikāgama* (Chap. xli, named Mālikā-lakṣhaṇa) :

Classification :

Chaturdhā mālīkā śālā sabhā-muṇḍaja-saudhaje || (1)

Definitions (vv. 2-5) :

Śālāyām api śālāṅgā nishkrāntānana-śobhitā |

Sā śālā mālīkā jñeyā śāstre' smin Kāmikāgame ||

Sabhāvad vihitā bāhye prāsādavad alaṅkṛitā |

Uha-pratyūha-saṁyuktā yā sabhā sā cha mālīkā ||

Yatheshṭa-dīśi saṁyuktā bhoga-bhūmi-saṁanvitā |

Prāsāda-vyāsa-dirghochchā proktā prāsāda-mālīkā ||

Maṇḍapasyokta-vistārāyāma-tuṅga-vibhūṣiṇī |

Sarvatra muṇḍākāratvāt kathitā muṇḍa-mālīkā ||

Further classifications (vv. 6-7) :

(i) Saṁchita, Asaṁchita, and Upa (also Apa)saṁchita.

(ii) Nāgara, Drāviḍa, and Vesara.

(iii) Jāti, Chhanda, and Vikalpa.

(iv) Śuddha, Mīśra, and Saṁkīrṇa.

(v) Vija, Mūla, and Aṅkura (this class is not specified).

(Excepting the last one, all the other classes occur in the *Mānasāra* also ; see under Vimāna-lakṣhaṇa.)

The details of these classes are given (vv. 8-22).

Still further classifications are given under the following names :

Sindhuka (vv. 23-28), Saṁpūrṇa (vv. 29-30), Meru-kūṭa (v. 31),

Kshema (vv. 32-34), Śiva (vv. 35-38), Harmya (vv. 39-40),

Saumya (v. 40), Viśāla (v. 41), Sarva-kalyāṇa (vv. 42-49),

Vijaya (v. 50), Bhadra (v. 51), Raṅgamukha (v. 52), Alpa

(vv. 53-54), Koṇa (vv. 55-58), Geya (vv. 58-59), Sāra (v. 60),

Pushkara (vv. 61-63), Adbhuta (v. 61a), Saṁkīrṇa (v. 62), and

Daṇḍa (v. 64).

Aneka-bhūmi-yuktā tu mālākārā tu mālīkā ||

(*Ibid.*, I, 89.)

Mālīkā-yukta-śā(? sā)lām chet koṇa-stambhe dvitīyake |

Prathamāvaraṇe vāpi dvitīyāvareṇe nyaset ||

(*Ibid.*, xxxi, 96.)

(4) Śailam śu(m)bhita-śāta-kumbha-vilasat-kumbham mahā-maṇḍapam  
prākāram paramālīkā-vilasita(m) muktā-mayim cha prapā  
(-bhā)m.

'Made for the god Vāmana a great maṇḍapa of stone, resplendent with pitchers (domes) of shining gold, surrounding wall, adorned with excellent buildings, and a canopy of pearls.'—(Fourteen incip. at Tirukovalur, no. K, of Rajendradeva, lines 1-2, *Ep. Ind.*, Vol. vii, pp. 145, 146.)

**MĀLIKĀ-MANḌAPA**—A pavilion of the Mālikā class of buildings.

(*Suprabhedāgama*, xxxi, 128 ; see under MĀLIKĀ.)

**MĀLYAJA**—A class of buildings, a type of pavilion.

(*M.*, xxxiv, 153 ; see under MANḌAPA.)

**MĀLYĀHUTA**—A class of buildings, a type of pavilion.

(*M.*, xxxiv, 316 ; see under MANḌAPA.)

**MĪŚRA**—A building made of any two materials out of wood, brick, stone, iron, etc.

Eka-dravyaṁ tu śuddaṁ syād dvi-dravyaṁ miśra-harmyakam ।

(*M.*, xviii, 138, etc.)

Dravya-dvaya-yutaṁ miśraṁ saṅkirṇaṁ bahubhir yutam ।

(*Kāmikāgama*, xlv, 22.)

**MĪŚRITA**—A kind of ornament prescribed for idols and kings.

(*M.*, I, 1-3 ; see under BHŪSHAṆA.)

**MUKULA**—A bud-like crowning ornament of a pillar.

(*M.*, xv, 32 ; see lists of mouldings under ADHISHTHĀNA, UPAPĪṬHA and PRĀSTARA.)

**MUKULI**—A type of round building.

(*Garuḍa-Purāṇa*, Chap. xlii, vv. 21, 23, 28  
29 ; see under PRĀSĀDA.)

**MUKTA-PRAPAṆGA** (see MADHYA-RANĠA)—The open courtyard connected with a tank ('mukta' meaning open, and 'prapāṅga' the body part or bank of a tank). It is built inside the court.

(*M.*, xlvii, 2 f.)

It is stated to be made of wood, stone, brick, etc., and also of jewels and iron especially :

Mukta-prapāṅgam api dāru-śileṣhṭakādyaiḥ ।

Ratnair aneka-bahu-loha-viśeshakaiḥ ।

(*M.*, xlvii, 31-32 ; see also xlviii, 68.)

**MUKHA**—The face, frontispiece, the front side of a building, the façade.

Svakiyāṅguli-mānena mukhaṁ syād dvā-daśāṅgulam ।

Mukha-mānena karttavayā sarvāyava-kalpanā ॥

'The face (of one's statue in length) should be 12 āṅgulas (=9 inches), being measured with one's own finger. The whole body should be made symmetrical to the face.'—(*Matsya-Purāṇa*, Chap. cclviii, v. 19.)

The front side of a building (*see Kāmikāgama and Bṛihat-saṃhitā, under DVĀRA*).

**MUKHA-BHADRA** (*see BHADRA*)—A portico, a porch, the front tabernacle, the middle niche, the front room corresponding to modern drawing-room or reception hall, staircase room.

Sarveshām mukha-bhadraṃ syāl lakṣhaṇaṃ vakshyate'dhunā ।

(*M.*, xviii, 275 ; *see also* 276 f.)

Sarveshām mukha-bhadraṇām pārśve sopāna-saṃyutam ।

(*M.*, xxx, 99.)

Parito'linda-bhāgena vāraṇaṃ (=door) mukha-bhadrakam ।

(*M.*, xxxiv, 251.)

'The temple (at Amarnāth) itself faces the west but the maṇḍapa or antarāla—the hall of the shrine—has also doors to the north and south. Each of the three doors has a porch (mukha-bhadra), approached by four or five steps, and supported by four nearly square pillars, two of them attached to the wall.'—(The temple of Amarnath, *Ind. Ant.*, Vol. iii, p. 317, c. 1, last para.)

Deva-Śrī-śaśi-bhūṣaṇasya kṛitinā devālayaṃ kāritaṃ yugmaṃ  
maṇḍapa-śobbitaṃ cha purato-bhadraṃ pratolyā saha ।

Kṣhetreśasya tathā surālaya-varaṃ sphītaṃ taḍāgam tathā band-  
haṃ Kauḍika-saṃjñakaṃ bahu-jalaṃ dīrghaṃ tathā khānitaṃ ।

(Kanker inscrip. of Bhanudeva, v. 7,  
*Ep. Ind.*, Vol. ix, p. 127.)

**MUKHA-MANḌAPA**—The pavilion in front of a temple.

(*M.*, xix, 198–199, etc.; *see under* MANḌAPA.)

Garbha-sūtra-sama-bhāgād agrato mukha-maṇḍapam ॥

(*Matsya-Purāṇa*, Chap. cclxxx, v. 6 ; *see also*  
v. 11 ; also *Garuḍa-P. rāṇa*, Chap. xlvi, v. 10.)

Prāsāda-garbha-mānaṃ vā kurvīta-mukha-maṇḍapam ॥

Śikharasya chaturthena agrato mukha-maṇḍapam ॥

(*Agni-Purāṇa*, Chap. xlii, vv. 7, 12.)

'Made the mukha-maṇḍapa (muga-maṇḍaman) and consecrated (the shrine).'—(Two Anaimalai inscrip. no. II, *Ep. Ind.*, Vol. viii, pp. 320–321).

**MUKHA-VĀRAṆA**—The entrance door.

(*M.*, xxxv, 395 ; *see* DVĀRA.)

**MUKHYA-HARMYA**—The main building, the chief temple.

(*M.*, xiii, 14.)

MUNḌA-MĀLIKĀ—A class of buildings, the top room.

(*Kāṃikāgama*, xli, 5 ; see under MĀLIKĀ.)

MUNḌA-HARMYA—The top room.

(See *Kauṣīliya-Artha-śāstra* under CHŪLIHARMYA.)

MUNḌAKA-DVĀRA—A kind of upper door.

(See *Kauṣīliya-Artha-śāstra* under DVĀRA.)

MUDRIKĀ—A small seal, a stamped coin, an impression, a moulding of the column.

(*Suprabhedāgama*, xxxi, 108, 105-177, 109 ; see under STAMBHA.)

MUDDHA-VEDI—The so-called Buddhist *tee*, railings in relief are frequently added to it, balustrade, railing.

(*Mahāvamsa*, 35, 2, ed. W. Geiger, p. 297.)

MUNI—An ascetic. An account of the images of the seven patriarchs is given in detail in the *Mānasāra*. Agastya is measured according to the seven tāla, Kāśyapa and Bṛiḡu according to the eight tāla, and Vāshishṭha, Bhārgava, Viśvāmitra and Bhāradvāja according to the nine tāla. (Details of these measures will be found under TĀLA-MĀNA.)

(*M.*, lvii, 2-6.)

The characteristic features of the patriarchs are also described.

(*Ibid.*, 7-17.)

MUSHTI-BANDHA—A moulding of the entablature and of the column, a kind of roof, the topmost part of a building, a part of the rampart and of the arch.

The third moulding from the top (downwards) of the entablature (*Kāṃikāgama*, liv, 1, see under PRASTARA).

A member of the column (*M.*, xv, 185, see under STAMBHA).

A kind of roof (*M.*, xvi, 51 ; see under VALABHĪ).

A (crowning) part of a building (*M.*, xviii, 202).

A part of the rampart :

Vajrākṛitiś cha vapraṅgam chhatrākāram athāpi vā |

Uttaram vājanam chaiva mushti-bandham tridhānvitam |

(*M.*, xxxi, 66-67.)

A part of an arch (*M.*, xlvi, 65 ; see under TORAṆA.)



**MŪRTI**—An image, a statue, an idol.

(1) An image, a statue (*M.*, LI, 26, etc.).

(2) Aṅgulaiś cha tathā mūrtiś catur-aśṭi-saṁmitaiḥ |

(*Bhaviṣya-Purāṇa*, Chap. cxxxii, v. 7.)

(3) Deśānurūpa-bhūṣhaṇa-veshālāṅkāra-mūrtibhiḥ kāryā |

(*Bṛihat-saṁhitā*, LVIII, 29.)

(4) Śilākhareṇa janitā satya-sandhyasya bhautikī |

Mūrtiḥ kīrtimayī chāsyā kṛitā tenaiva śāśvatī ||

‘By the stone-chisel a material body of Satyasandha was executed, and by the same an eternal body of his fame was produced.’

‘The two inscriptions (nos. 33, 34, *H. S. I. I.*, Vol. I.) record that a king Guṇabhara . . . constructed a temple of Śiva on the top of the mountain and placed in it a liṅga and a statue of himself.’—(*Trisiraṇalli Cave inscrip.*, no. 33, v. 4, *H. S. I. I.*, Vol. I, pp. 29, 30.)

(5) Uttara-bhāgada Kaisāleyalli pañcha-vimśati-lilā-mūrtigaḷaṁ pra-tiṣṭheyam |

‘Set up on the colonnade to the north twenty-five pleasing (lila—a particular attitude, like dhyāna-mūrti) statues.’—[*Ep. Carnat.*, Vol. IV, Chamarajnagar Taluq, no. 86; Roman Text, p. 18, lines 15, 10 (bera), 13 (vigraha); Transl., p. 11.]

In this inscription, the expressions *bera*, *vigraha*, and *mūrti* occur; they are to be distinguished: *bera* or *bimba* is an idol of a god, *vigraha* (or image) expresses almost the same idea, *mūrti* implies the statue of both gods and men, and so also does *pratimā*.

**MŪRTI-KĀNTA**—A type of storeyed building.

A class of five-storeyed buildings (*M.*, XXIII, 19–24; see under PRĀSĀDA.)

**MŪLA-DANḌA**—The regulating column of a building, the foundation pillar.

The main column (*M.*, xv, 236; see also L, 104, etc., under STAMBHA.)

**MŪLA-BERA**—The chief deity in a shrine, the principal idol of a temple.

(*M.*, LV, 34; LXI, 21; LIV, 3, etc.)

**MŪLA-STAMBHA**—The foundation pillar, the regulating column of a building.

(*M.*, xv, 234, etc.; see under STAMBHA.)

**MŪLA-STHĀNA**—The foundation, the base, a temple in the centre of a village or town.

‘One perpetual lamp was given to Mahādeva, the lord of the Śrī-Mūla-sthāna at Tirukkaḷukkuṅṇam.’—(Inscrip. at Tirukkaḷukkuṅṇam, line 34, *H. S. I. I.*, Vol. III, p. 148.)

**MŪLA-HARMYA**—The chief of the buildings forming a group, the principal shrine, the main temple.

(*M.*, XIII, 19; XXXIX, 135, etc.)

**MṚIGA-VANA**—Deer-forest, a place of sport or recreation of kings.

Tāvan-mātram eka-dvāram khāta-guptam svādu-phala-gulmaguchcham akaṅṭaki-drumam uttāna-toyāsayam dānta-mṛigachatush-padam bhagnanakha-damshtrā-vyāla-mārgāyuka-hasti-hastinī-kalabha-mṛiga-vanam vihārārtham rājñah kārayet |

Sarva-tithi-mṛigam pratyante chānyan mṛiga-vanam bhūmivaśena vā niveśayet |

(*Kaūṭīya-Arthā-śāstra*, Chap. XXIII, p. 49.)

**MṚIṆĀLAKA**—A lotus stalk or fibre, a moulding of the entablature, base, or pedestal, etc., shaped like the lotus stalk or fibre.

A moulding of the lintel (*M.*, XIX, 145, etc.).

The fourth moulding from the top (downwards) of an entablature.

(*Kāmikāgama*, LIV, 1; see under PRĀSTARA.)

A moulding of the entablature (*M.*, XVI, 63; see the list of mouldings under PRĀSTARA.)

**MEGHA-KĀNTA**—A type of storeyed building.

A class of ten-storeyed buildings (*M.*, XXVIII, 16-17; see under PRĀSĀDA.)

**MERU**—A class of buildings mostly storeyed.

(1) A type of buildings which are hexagonal (in plan), have twelve storeys, variegated windows and four entrances, and are 32 cubits wide.

(*Bṛihat-saṁhitā*, LVI, 20; see *J. R. A. S. N. S.*, Vol. VI, p. 318.)

Pañcha-chatvāriṁśan-meru-lakṣhaṇādhyāyaḥ—the chapter on the description of forty-five kinds of Meru buildings; they are described by the following authorities :

(2) *Prāsāda-maṇḍana-Vāstu-śāstra* of Sūtradhāra Maṇḍana (Chap. VI, Ms. Egg. 3146, 2253, fol. 26 b).

(3) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 28, 31, 53, see under PRĀSĀDA.)

(4) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 27; see under PRĀSĀDA.)

(5) *Agni-Purāṇa* (Chap. CIV, vv. 14-15; see under PRĀSĀDA.)

(6) *Garuḍa-Purāṇa* also describes the same kind of Meru temple as the *Agni-Purāṇa* :

Sata-śṛiṅga-samāyukto meruḥ prāsāda-uttamaḥ |

Maṇḍapās tasya kartavyā bhadrās tribhir alaṅkṛitāḥ ||

(Chap. XLVII, v. 24, cf. also v. 39; see under PRĀSĀDA.)

(7) A building with eight śālās (compartments) and eight kūṭas (towers or domes) :

Merur nāma iti khyātas tv-ashta-śālāshṭa-kūṭakam(-ḥ) ॥

(*Suprabhaddgāna*, xxxi, 43.)

(8) 'Meru denotes a particular kind of temple (hexagonal with twelve stories, variegated windows, and four entrances, *Bṛihat-saṃhitā*, lvi, 20.)'—(Jabbalpur copperplate of Yasahkarnadeva, v. 13, *Ep. Ind.*, Vol. II, pp. 4, 6, note 42.)

(9) See Bheraghat inscrip. of the Queen Alhana Devi (v. 9, *Ep. Ind.*, Vol. II, pp. 11, 15).

(10) Kanaka-si-(śi)glapita-gagana-khelat-khechari-chakra-khedah ॥

Kim aparam iha kās(ś)yām yasya dughdhābdhi-vichī-valaya-bahalakīrtteḥ kīrttanam karṇa-meruḥ ॥

'Of him whose fame is like the circle of waves of the milky ocean, need we say more than that here at Kāśī there is a temple (erected by him), Karṇa-meru (so lofty), that the wind of the flags which wave from its golden spires lessens the fatigue of the damsels of heaven, when playing in the sky.'—(Khairha plates of Yasahkarnadeva, v. 13, *Ep. Ind.*, Vol. III, pp. 211, 212, 216.)

(11) 'Meru is primarily the name of the fabulous golden mountain (hemādri), the centre of Jambū dvīpa on which the gods dwell (surālaya), and it is figuratively applied in geographical names to any hill covered with splendid temples and palaces.'

'Another figurative meaning of Meru, derived from the notion that mount Meru is the home of the gods, a large temple with six towers, twelve stories and wonderful vaults (*Bṛihat-saṃhitā*, lvi, 20).'

'According to *Prabandha-chintā-maṇi* (p. 134, see also p. 175 f.) King Karṇa of Gujarat constructed a building of this kind, called Karṇa-meruḥ Prāsādaḥ, in Aṅghilvād.'

'Similarly the *Prabhāvaka-charitra* (xii, 402) mentions a Śiva temple called Siddha-meru.'

'As regards the name Ajaya-meru, its meaning is no doubt (as the *Prīthvī-rāja-vijaya*, v. 100, suggests), the Meru made by Ajaya-rāja.'

'Thus we have in Rājputānā Jesala-meru (this form is still used by Pandits and Yatis, and occurs regularly in the colophons of the palm-leaf manuscripts in the inscriptions and the Jaina books), 'the Meru made by Jesala,' which primarily denotes the hill-fort, rising with its temples and palace above the town of Jesalmer or Jesalmir in Marvād, Komalmer, properly Kumbhala-meru, 'the meru built by Kumbhala or Kumbha-karṇa,' which is the well-known hill-fort in Mevād. (In the *Rajputana Gazetteer*, Vol. III, p. 52, the fort is called Komalgarh, while Col. Tod

gives Komalmer). The name Kumbhala-meru occurs in the Jaina Paṭṭā-vālis (see the description of the Kharatara, no. 56, Śrīpuj-Jina-samudra, *Ind. Ant.*, Vol. xi, p. 249), and Balmer or Barmer, properly Bāhaḍa-meru, the Meru made by Bāhaḍa, a hill-fort in Mallāni (*Rājputana Gazetteer*, Vol. II, p. 271). The form Bāhaḍa-meru is used by the Jains (see the description of the Kharatara, no. 58, Śrīpuj-Jina-samudra, *Ind. Ant.*, Vol. xi, p. 249). In Kaṭhiāvāḍ, there is Jhānjmer, (*Bombay Gazetteer*, Vol. VIII, p. 459) properly Jhañjha-meru, the Meru made by Jhañjha, and in the Central Provinces there is another Ajmir-garh, properly Ajaya-meru-gadha, the fort, i.e., the Meru made by Ajaya.—(Origin of the town of Ajmer and of its name, Dr. Bühler, *Ind. Ant.*, Vol. xxvi, p. 164, last para., notes 11-15.)

(12) There are other temples in honour of the holy mount Girnar . . . in the south wing being Sameta Sikhara and the other Su-meru or a personified mount Meru.—(Ahmadabad Jaina temples, *Arch. Surv.*, New Imp. Series, Vol. xxxiii, p. 85.)

(13) Mandiram had the surname Jaya-meru-Śrī-Karaṇa-maṅgalam (lines 11 and 15 f.), which seems to be derived from Jaya-meru, one of the surnames of the Bana king Vikramāditya.—(Inscrip. of Rajaraja I, no. 50, *H.S.I.I.*, Vol. III, p. 103, para. 2.)

**MERU-KĀNTA**—A type of storeyed building.

(1) A class of three-storeyed buildings (*M.*, XXI, 41-49, see under PRĀSĀDA).

(2) A type of building (*kāmikāgama*, LXV, 31; see under MĀLIKĀ).

**MERUJA**—A type of building, a class of pavilions.

(*M.*, xxxiv, 160; see under MAṆḌAPA.)

**MESHA-YUDDHA**—A kind of joinery.

(*M.*, xvii, 93, 112-113; see under SANDHI-KARMA.)

**MAULI**—A head-gear, a crown.

*Mānasāra* (Chap. XLIX, 1-232, named Mauli-lakṣhaṇa) :

Various crowns and head-dresses are described : Jaṭā, Mauli, Kiriṭa, Karaṇḍa, Śirastraka, Kuṇḍala (Kuntala), Keśa-bandha, Dhammilla, Alaka, Chūḍa, Makuṭa, and Paṭṭa (lines 13-15).

Of these, the Paṭṭas are sub-divided into three kinds, namely, Patra-paṭṭa, Ratna-paṭṭa, and Pushpa-paṭṭa (line 16). Kuntala, Keśa-bandha, Dhammilla, Alaka and Chūḍa are apparently various fancy modes of hair-dressing. Jaṭā (clotted hair) and Makuṭa (*lit.* diadem) are stated to suit Brahmā and Śiva (Rudra); Kiriṭa and Makuṭa are prescribed for Viṣṇu in his different forms, such as, Nārāyaṇa and others (lines 17-18).

Other petty gods wear Karaṇḍa and Makuṭa (line 19). The love goddess Ratī (Manonmanī) wears Jaṭā, Maulī, Maṇḍala or Kuṇḍala. Sarasvatī and Sāvitrī put on Keśa-bandha and Kuṇḍala. All the female deities may wear Karaṇḍa or Makuṭa. The kings Chakra-vartin (Śārva-bhauma) and Adhirāja wear Kirīṭa, Narendra puts on Karaṇḍa, Pārshnika uses Śirastraka, or the Chakra-vartin and other kings may, as stated, wear Karaṇḍa or Makuṭa. Patra-paṭṭa is stated to be suitable for the king Paṭṭa-dhara, Ratna-paṭṭa for Pārshnika, Pushpa-paṭṭa for Paṭṭa-bhāj, and Pushpa-mālya (flower wreath) for Astra-grāha (lines 20-28).

Kuṇḍala (Kudmala) and Makuṭa are prescribed for the queen of Chakra-vartin, Keśa-bandha for the queens of Adhirāja and Narendra, Dhammilla and Kumuda for the queens of Pārshnika, Paṭṭa-dhara, Maṇḍaleśa and Paṭṭa-bhāj, and Alaka and Chūḍa for the queens of Astra-grāha (lines 29-33).

The height, etc., of a crown is determined in comparison with the width of the face of the wearer. Different proportions are suggested in different cases (lines 34-63).

Next is described in detail the number of gold pieces and precious jewels in the crowns of the kings of various ranks and of their consorts (lines 64-88, 89-92).

Forms of these crowns are then described :

Jaṭā, Makuṭa, Keśa-bandha and Dhavala (? Dhammilla) are stated to be shaped like tri-purusha (*lit.* three ancestors or the length of three men) Kirīṭa like veṇu-karṇa (bamboo-ear), Karaṇḍa like the beak of a peacock, Śirastra like budbuda (water bubble), and Dhammilla like vallika (creeper) (lines 93-95).

Then follows the description of the plan and the various parts of these crowns, as well as of their measurement (lines 96-168).

**MAULIKA**—A type of pavilion, a class of halls, a type of building.

A type of pavilion with six faces (*M.*, xxxiv, 554 ; see under MAṆḌAPA.)

A class of halls (*M.*, xxxv, 3, 10 ; see under ŚĀLĀ.)

**MAULI-BANDHA**—A head-gear.

(*M.*, xlix, 109 ; see under BHŪSHANA.)

**MAULI-MUNḌA**—The top part of a branch of the ornamental tree (kalpavṛiksha).

Śākhā-mūlasya parve tu mauli-muṇḍāni cha yojayet ।

(*M.*, xlviii, 66.)

**YAKSHA**—A class of demi-gods, the attendants of Kubera or the god of wealth, who guard his treasures ; they are also the chowry-bearers of other gods. They are stated to be measured according to the nine tāla ; they assume a purely human appearance, possess two arms and two eyes, dark blue and yellow complexion, and benevolent disposition.

(*M.*, LVIII, 2-5 ; see TĀLA-MĀNA.)

**YAJÑA-KĀNTA**—A type of five-storeyed building.

(*M.*, XXIII, 34-41 ; see under PRĀSĀDA.)

**YAJÑA-BHADRA**—A type of building, a pavilion with four pillars.

(*Matsya-Purāna*, Chap. CCLXX, v. 11 ; see under MAṆḌAPA.)

**YANTRAKA**—An architectural member of the bedstead, a band, a machinery or wheel at the legs to move a couch easily.

Pādāgre chāntarālaṁ syāt kuryāt tiryak cha yantrakam ।

(*M.*, XLIV, 13.)

**YAMA-SŪRYA**—A type of building, a house with a western and northern hall.

(*Bṛihat-saṁhitā*, LIII, 39.)

**YAMA-KĀNTA**—A type of storeyed building.

A class of five-storeyed and eleven-storeyed buildings.

(*M.*, XXIII, 25-29, XXIX, 16-18 ; see under PRĀSĀDA.)

**YĀGA-MANḌAPA**—A sacrificial pavilion.

(*M.*, XXXIV, 37 ; XXXII, 65, etc.)

**YĀGA-ŚĀLĀ**—A sacrificial hall.

(*M.*, XXXII, 55, etc.)

**YĀNA**—A conveyance, a car, one of the four kinds of Vāstu consisting of Ādika, Syandana, Śibikā, and Ratha.

(*M.*, III, 3, 9-10.)

**YŪPA-STAMBHA**—The sacrificial pillar (see under STAMBHA).

**RAKTA-KAMPA**—A moulding of the base, a fillet.

(*M.*, XIV, 287 ; see the list of mouldings under ADHISHTHĀNA.)

**RAKTA-PAṬṬA** (*cf.* RATNA-PAṬṬA)—A moulding of the base, a band.

(*M.*, XIV, 289 ; see the list of mouldings under ADHISHTHĀNA.)

RAKTA-BANDHA—A class of bases.

(*M.*, xiv, 281–296 ; see the list of mouldings under АДНІВНТННА ; see also xv, 223.)

RAKTA-VAPRA—A moulding of the base, the cavetto.

(*M.*, xiv, 284 ; see the list of mouldings under АДНІВНТННА.)

RAṄGA—A pavilion, a theatre, an amphitheatre, a stage, an arena, an assembly-hall, a court, a courtyard.

(1) A pavilion within another pavilion is called Raṅga :

Maṅḍape maṅḍapaṁ yat tu raṅgam ity-abhidhīyate ||

(*Kāṁikāgama*, I, 94.)

(2) Courtyard :

Tasya madhye cha raṅge tu mauktikena prapānvitam |

(*M.*, xxxiv, 218.)

Mukha-śālā vīśālā cha chatur-bhāgam tathāyatam |

Purato'lindam ekāṁśam bhittim kuryāt samantataḥ |

Mulāgre dvi-dvi-bhāgena vāsa-raṅgam cha kārayet |

(*M.*, xxxv, 117–119 ; see also xxiii, 50 ; xxxviii, 44, etc.)

(3) Uttare raṅgam ity-uktaṁ tad-grihiṇyā grihaṁ bhavet ||

Eka-śālā praśastā syāt strīṇāṁ raṅgapajīvinām ||

Pradhāna-śālā yatraiva raṅga-sthānaṁ vidhīyate ||

Raṅga-bhitti-samāyuktaṁ dhāma-sopāna-saṁyutam ||

(*Kāṁikāgama*, xxxv, 47, 60, 62, 64.)

RAṄGA-PĪṬHA—The stage proper.

(*Bharata's Nāṭya-śāstra*, II, 66, 771, 102.)

See details under NĀṬYA-GRIHA.

RAṄGA-BHŪMI—The stage, the playhouse (see details under NĀṬYA-GRIHA).

RAṄGA-MANḌAPA—A pavilion, an assembly-hall, a council chamber, the stage proper (*Bharata's Nāṭya-śāstra*, II, 68, 96), the whole playhouse including auditorium also (*ibid.*, II, 91). Music hall as defined in the *Bhāvaṇḍaprakāśana* (x, 518), implying singing, playing upon musical instruments, dancing and acting jointly or separately. See details under NĀṬYA-GRIHA (VEŚMA).

*Cf.* Nāṭ (nṛitta) mandira implying the detached maṅḍapa or hall in front of a temple, where the visitors assemble and indulge in religious music.

(1) An assembly-hall (Hampe inscrip. of Krishnaraya, lines 24, 32, north face).

‘ In the *Zeitschrift der Deutschen Morgenlandischen* (Bd. LVIII, s. 455) Dr. Bloch makes some remarks respecting a cave in Rāmgārjh bili in Sargūjā, which from its arrangement and inscriptions appears to have been evidently intended for dramatic performances.’

‘ The so-called queen’s cave and that of Gaṅcśa cave in Udayagiri are further undoubted examples, to the reliefs of which Jacobi has directed my attention : they represent the doings of these ladies and gentlemen (actresses and actors) in a highly realistic way. The cave-theatre discovered by Bloch has, however, a special interest : it is arranged after the Greek pattern.’

Prof. Lüders refers to Kālidāsa (1) *dari-griha* (*Kumāra-sambhava*, 1, 10, 14); (2) *Śilā-veśman* (*Megha-dūta*, 1, 25).

(Indian Caves as Pleasure-resorts, *Ind. Ant.*, Vol. XXXIV, p. 199, para. 3 ; p. 200, para. 1.)

(2) *Iranḡada happaḷige yuman imahā-sopāna pañtiyumañ rachisidañ Śrī-Gommaṭa-devara suttalu raṅgama-happalige ym bigiyisidan—* had this raṅgada happaḷige (? painted hall or hall of assembly) and the flight of grand stairs laid out ; had the raṅgama happaḷige set up around Śrī-Gommaṭa Deva.’—(*Ep. Carnat.*, Vol. II, no. 115 ; Roman Text, p. 87 ; Transl., p. 171.)

(3) *Kārite vira-Ballāḷa-paṭṭana-svāmināmunā* !

*Nāgena Pārśva-devāgre nṛitya-raṅgāśma-kuṭṭime* !

‘ By Nāga, the Vira-Ballāḷa, paṭṭana-svāmi, were built the dancing hall and terrace of Pārśva Deva.’

*Nṛitya-raṅgamumañ mādisida—* and in front of the basadi of Kamaṭha Pārśva Deva stone pillars and a dancing hall’ were made.—(*Ep. Carnat.*, Vol. II, no. 130 ; Roman Text, p. 99, lines 1-4 ; Transl., p. 178, para. 1.)

**RAṅGA-MUKHA**—A class of buildings, the forepart of a theatre or stage.

(*Kāmikāgama*, XLV, 52 ; see under MĀLIKĀ.)

**RAṅGA-ŚINSHA**—The forepart of the stage, the platform made of wood (Bharata’s *Nāṭya-śāstra* II, 71). See details under NĀṬYA-GRIHA (-VEŚMA).

**RATNA-KALPA**—A kind of ornament prescribed for idols and kings.

(*M.*, I, 3 ; see under BRUŚHAṆA.)

**RATNA-KĀNTA**—A class of six-storeyed buildings.

(*M.*, XXIV, 19 ; see under PRĀŚĀDA.)



**RATNA-GRIHA**—The jewel-house, the adytum of a Buddhist temple, a stūpa or tope.

Ratna-grihecha dipako jvalatu | mama chāparārddhāt pañchaiva bhikshavo bhūmījatām ratna-grihe cha dipaka iti ||

‘From the interest of the dināras given by him . . . let a lamp burn in the jewel-house . . . and with the other half . . . let the same number of five Bhikshus be fed and a lamp burn in the jewel-house.’

‘It seems to denote the stūpa itself, as the abode of the three ratnas or jewels or precious stones, viz. (1) Buddha, (2) Dharma, the law or truth, and (3) Saṅgha, the community or congregation.’

This rendering of the term by the whole ‘stūpa’ seems unsuitable to the context : a lamp was provided to light up the ratna-griha which must imply a room or a particular part thereof, and not the whole ‘stūpa.’—(Sanchi stone inscrip. of Chandragupta II, lines 9–10, *C. I. I.*, Vol. III, F. G. I., no. 5, pp. 32, 33–34, note 5 on p. 33.)

**RATNA-PAṬṬA**—A moulding, a jewelled band, a jewelled turban.

A moulding of the pedestal (*M.*, XIII, 84; see the list of mouldings, under UPARIṬṬHA.)

A head-gear (*M.*, XLIX, 16; see under BHŪSHANA).

**RATNA-PĀDA**—Otherwise called Śrīpāda, the footprint of Buddha, on Adam’s Peak in Ceylon. For details see BUDDHA-PĀDA.

**RATNA-PUSHPA**—A diamond flower, an ornament.

(Deopara inscrip. of Vijayasena, v. 11. *Ep. Ind.*, Vol. I, pp. 308, 313.)

**RATNA-BANDHA** (see RAKTA-BANDHA)—A class of bases.

(*M.*, XIV, 281–296; see the list of mouldings under ADHISṬHĀNA.)

**RATNA-MANḌAPA**—A kind of pavilion.

(*M.*, XXXII, 48; see MANḌAPA.)

**RATNA-RANĀJAKA**—One of the three library buildings in the University of Nalanda (see under DHARMAGANJA).

**RATNA-SĀGARA**—One of the three library buildings in the University of Nalanda (see under DHARMAGANJA).

**RATNI** (cf. ARATNI)—A measure of 21 aṅgulas or about 16 inches.

Ratnir aṅgula-parvaṁ saṁkhyayā tv-eka-viṁsatih |

(*Brahmaṣṭa-Purāṇa*, Part I, 2nd anuśaṁgapāda—Chap. VII, v. 98.)

A measure equal to the cubit with closed or clenched fist (*Suprabhed-āgama*, xxx, 24).

**RATNODADHI**—One of the three library buildings in the University of Nalanda. It was nine-storey high and stocked the sacred scriptures, *Prajña-pāramita-sūtra*, and the Tantric works such as *Samajaguhya*, etc. (See under DHARMAGANJA).

**RATHA**—A chariot, a carriage, a car, a vehicle, a tank, a war chariot, the body, a limb, a shrine.

(1) *Mānasāra* (Chap. XLIII, 1-107, named Ratha) :

Rathas are constructed for ceremonial and ordinary drives of idols, Brahmans and kings; as well as for fighting, mock-fighting and other purposes (lines 1, 131-133).

Wheels and other parts of Rathas, their shapes, measurement, and ornaments and mouldings are described (lines 2-3 f.). Other architectural details are also given (lines 3-11).

With regard to shape, Rathas are divided into seven classes, namely, Nabhasvān-bhadra, Prabhañjana-bhadra, Nivāta-bhadra, Pavana-bhadra, Pṛishada-bhadra, Indraka-bhadra, and Anila-bhadra (lines 112-115). The first of these is square, the second hexagonal; the third should have two bhadrās or porticoes (? storeys) and the fourth three porticoes, the fifth and the sixth should have ten porticoes, and the last one should have twelve porticoes (lines 117-120). But according to some, the seven shapes proper are respectively semi-circular, circular, elliptical, rectangular, octagonal, hexagonal, and oval (lines 121-123).

Rathas are further divided into four types, namely, Nāgara, Drāviḍa Andhra, and Vesara. The square Rathas are called Nāgara, the octagonal ones Drāviḍa, the hexagonal ones Andhra, and the round ones Vesara (lines 124-125).

In accordance with various purposes, Rathas are furnished with different kinds of wheels and other parts. Thus a war chariot or tank has three wheels, the chariot for mock-fighting has four wheels, one for ordinary festival is furnished with five wheels, one for special festival may have six, seven, eight, nine or ten wheels (lines 131-37).

The number of vedīs or platforms, storeys, etc., of these Rathas as well as the Rathas of the Bauddhas and of the Jinakas are described (lines 138-171, 3-111).

(2) Svarṇaiḥ sughaṭitaṁ sādhu-ratha-trayam alaṁkṛitam |

Dukūla-ratna-mālādyair bahu-mūlyair dṛiḍhaṁ mahat ||

(*Stānda-Purāṇa*, Vaishṇava-khaṇḍa-dvitiya,  
Chap. xxv, v. 8.)

(3) 'On the east elevation of the temple . . . eight small shrines (known as Ratha) stand in a row from north to south on each side of the eastern entrance, six on the left.'

'The Ratha, on the extreme left, stands completely detached. It is a square shrine, with carved panels on the back of the chamber.'

'A small platform is in front, with yāli piers (block uncarved), each having its capital complete.'

'The basement is a square granite plinth, and square free stone course with semi-octagonal moulding over; the upper base is a square granite course on which the superstructure rests; on the wall head over the pilasters are brackets which carry the cornice.'

'As these shrines are very similar to the monoliths at Māmallāpuram, known by the name of Rathas, the term is here used advisedly.'—(Pallava Architecture, *Arch. Surv.*, New Imp. Series, Vol. xxxiv, p. 22, paras. 3, 4, 5, 6 : note 96 ; see Plate xxv.)

**RATHAKA**—A type of building, a shrine, a temple.

Ashṭamāmsena garbhasya rathakānām tu nirgamaḥ |  
Paridher-guṇa-bhāgena rathakāms tatra kalpayet ||  
Tat-ṭṭīyena vā kuryād rathakānām tu nirgamaḥ |  
Vāma-trayaṁ sthāpaniyaṁ rathaka-tritaye sadā ||

(*Agni-Purāṇa*, Chap. XLII, vv. 13-14.)

Nemiḥ pādona-vistīrṇā prāsādasya samantataḥ |  
Paridhes trayāmsako madhye rathakāms tatra kārayet ||

(*Ibid.*, Chap. CIV, v. 7.)

**RATHA-KUMBHA**—A pitcher-like part of the column.

(*M.*, xv, 68 ; see under STAMBHA.)

**RATHA-VITHI**—The broad road fit for driving chariot and other vehicles, the highway, the main street.

(See *Kāṁikāgama*, under RĀJA-VITHI.)

**RAHASYĀVĀSA-MANḌAPA**—A pavilion where kings reside in secret, a bed-room, a private chamber.

(*M.*, xl, 147 ; see under MANḌAPA.)

**RĀJA-GRĪHA**—The royal palace.

(See details under RĀJA-HARṂYA.)

**RĀJA-DHĀNI** (see under NĀGARA)—The king's residence, the capital city where the king usually resides, the seat of Government, the metropolis.

**Definition :**

Vidyā-sthānaṃ tu tadvat syāt bahu-senā-samanvitam ।  
Rāja-veśma-samāyuktā rāja-dhānti kathyate ॥

(*Kāṃikāgama*, xx, 14.)

*Cf.* ' With myriads of people, practices of virtue, agreeable occupations, streams of the (nine) sentiments, pleasure-gardens, separated lovers, splendid tanks, full lotus beds, gilded boats for spring-festivals, ghaṭikā-sthānas (religious centres), the supports of dharmma and mines of enjoyment, moats which were as if the sea being overcome had returned here on account of the collection of gems, groups of the lotus-faces of beautiful women fair as the moon (grāma-nagara-kheḍa-kharvvaṇa-maḍamba-droṇa-mukha-pura-paṭṭana-rāja-dhāni), on whatever side one looked, in these nine forms did the Kuntala-deśa shine.'—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 197; Transl., p. 124, para. 1, last seven lines; Roman Text, p. 214, line 27 f.)

**RĀJA-PATHA**—The broad street, the big road, the highway.

Dhanūmshi daśa-vistṛṇaḥ śrīmān rāja-pathaḥ kṛtaḥ ।  
Nṛi-vāji-ratha-nāgānām asaṃbādhas tu saṃcharaḥ ॥  
Dhanūmshi chāpi chatvāri śākhā-rathyāś cha tair mitā ।  
Trikā rathyoparathyāḥ syur dvikāś chāpy-uparathyakāḥ ॥  
Jaṅghā-pathaś chatush-pādas tri-pādaṃ cha gṛihāntaram ।  
Dhṛiṭi-mārgas tūrdhva-shashṭham kramaśaḥ padikaḥ smṛitaḥ ॥

(*Brahmāṇḍa-Purāṇa*, Part 1, 2nd annushaṅga-pāda,  
Chap. vii, vv. 113, 114, 115.)

**RĀJA-VITHI**—The public road, the broad street, a road which runs round a village or town, also called Maṅgala-vithi and Rathavithi.

Rāja-vithīti vikhyātā grāmāder bahir-āvṛitā ।  
Saiva maṅgala-vithīti ratha-vithīti kathitā ॥

(*Kāṃikāgama*, xxi, 2.)

**RĀJA-HARMYA**—The palace of a king.

*Mānasāra* (Chap. xl, 1-160, named Rāja-gṛiha) :

Palaces are divided into nine classes with regard to their size and as they belong to the nine classes of kings, namely, Sarvabhūpa (or Sārva-bhauma, otherwise called Chakra-vartin) (lines 32, 1-9), Mahā-rāja (lines 10-15), Narendra (lines 16-19), Pārshpika (lines 19-22), Paṭṭa-dhara (lines 23-25), Maṅḍaleśa (lines 26-28), Paṭṭa-bhāj (lines 29-31), Prāhāraka (lines 32-36), and Astragrāha (line 37).

Each palace admits of three sizes, namely, the largest, the intermediate and the smallest, both as regards the measurement of dimensions (lines

4, 10, 15, 36) and the number of walls, storeys, rooms, ditches, gardens, etc. (lines 38-69). Thus three kinds of breadth are given to each palace. The length and height are determined in comparison with the breadth. The former (length) may vary from being equal to the breadth to being  $2\frac{1}{2}$  times of it. Height is determined mostly by the number of storeys, rules for which have been discussed in another place (*see* under TALA and BHŪMI-LAMBA). The number of storeys a palace should possess, has also been discussed in the same place. The enclosure, surrounding moat, etc., of each palace are briefly described in the present chapter. But the main object of the chapter is to give an account of inner and outer buildings belonging to royal palaces (lines 71-111, 112-153).

The Brahma-piṭha or royal chapel is installed in the Bramasthāna or central part (lines 156-159). The main palace is built in the best of the remaining parts called Indra, Varuṇa, Yama, Pushpadanta, etc. Round the palace proper are arranged all other houses, such as the houses for the queen and the princesses, for private council hall, drawing-room, dressing-room, bathroom, dining hall, kitchen, bed-chambers, quarters for attendants, places for tanks and inner gardens, etc. (*cf.* Shoḍaśa-mandira-chakra).

Beyond the royal harem, the charm and luxuries of which are so well-known, are placed the official quarters, including residences of the crown prince, family priest, ministers, and others.

The royal council and other offices are suitably accommodated: e.g., the palace of peace and war office are directed to be built at the fourth compound in the southern side of the palace (line 148). Pleasure gardens, flower gardens, groves, tanks, etc., are gracefully laid out. Compare the following :

Yāmye cha soma-dig vāpi vāyavye vātha nairṛite ।  
 Āsthāna-maṇḍapaṁ kuryāt pushkariṇyāṁ cha vāyave ।  
 Nāgasya vāmake yāmye kuryād ārāma-dśakam ।  
 Pushpodyānaṁ tataḥ kuryāt mukhya-bhallātake'pi cha ।  
 Nṛittāgāraṁ tataḥ kuryān nānā-nṛittāngānāni cha ।

(*M.*, XL, 117-121.)

Tritīye vithis tasyāṁśc rahasyāvāsa-maṇḍapam ।

(*Ibid.*, 147.)

Iśc vā vitathe chaiva raṅga-maṇḍapam eva cha ।

(*Ibid.*, 152.)

Stables, cow-sheds, etc., where domestic animals are kept, are generally built near the main gate :

Dvauvārika-pade chaiva mayūrālayam eva cha ।

Dvārasya dakṣhiṇe pārśve vyāgrakālayam eva cha ।

(*Ibid.*, 144-145.)

Pārsvake mesha-śālā cha satyake vānarālayam ।  
 Somād iśāna-paryantaṁ vāji-śālām prakalpayet ।  
 Yāmyādi-pāvakāntaṁ syād gaja-śālām prakalpayet ।  
 Tasmāt tu nairṛityāntaṁ kukkuṭālayam eva cha ।  
 Vāyu-koṇādi-mukyāntaṁ mṛigaṇām hariṇālayam ।

(*Ibid.*, 128-132.)

The elevated platforms to see the mock-fight from are also placed near the door (lines 148-150). The iron-pike (śūla-kampa) for capital punishment is placed in a prominent place near the gate (line 135). But the jail (kāragāra) is built in a rather out-of-the-way place, such as the Bhṛīśa, or the Antariksha part.

All these are given by way of illustrations, the most part of the arrangement being left, as stated here, to the discretion of the artists, and the choice of the king (line 155).

**RĀJĀNGA**—The royal court, persons forming the king's suite or council, anything related to the king, the royal palace.

In a chapter (xli), named Rājāṅga, of the *Mānasāra* are described the nine classes of kings, their courts, kingdoms, royalties and some special characteristics.

'Had a palace (Rājāṅga) built for Goparāja to the west of that pond.'—(*Ep. Carnat.*, Vol. x, Malur Taluq, no. 4; Roman Text, p. 187; Transl., p. 156.)

**RUCHAKA**—A type of building, a class of columns.

(1) Prāk-paśchimāvalindāv-anta-gatau tad-avadhi-sthitau śeshau ।

Ruchake dvāraṁ na śubhadam uttarato'nyāni śastāni ॥

'The (building called) Ruchaka has a western and eastern terrace running to the end, and between their extremities two others. A northern door in it brings evil, doors on any other side are auspicious.'—(*Bṛihat-saṁhitā*, LI, 35, *J. R. A. S.*, N. S., Vol. vi, p. 286.)

Sama-chaturaśro ruchakaḥ—a column with four rectangular sides is (called) ruchaka (*ibid.*, v. 28).

A kind of quadrangular building :

(2) *Agni-Purāṇa* (Chap. CIV, vv. 14-15 has 'Charuka,' see under PRĀSĀDA).

(3) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 24-25; see under PRĀSĀDA).

**RUCHIRA**—A kind of pedestal or platform at the bottom of a column, a portico.

Garbha-māna-pramāṇena prāsādaṁ śṛiṇuta dvijāḥ ।  
 Vibhajya navādhā garbhaṁ madhye syāl liṅga-piṭhikā ॥  
 Pādāśṭakaṁ tu ruchiraṁ pārsvataḥ parikalpayet ।  
 Mānena tena vistāro bhittinām tu vidhiyate ॥

(*Mṛtysya-Purāṇa*, Chap. CCI, XIX, vv. 15-16.)

**RUDRA-KĀNTA**—A type of building, a class of columns.

The sixteen-sided or circular pillars (*M.*, xv, 21 ; see under STAMBHA).

A class of four-storeyed buildings (*M.*, xxii, 34-43 ; see under PRĀSĀDA).

**RUDRA-BANDHA**—A kind of band, an ornament.

(*M.*, li, 69 ; see under BHŪSHANA.)

**RUPOTTARA**—A type of entablature (see PRĀSTARA).

*Cf.* Athochcharṁ pāda-vistāraṁ rūpottaram ihoditam |

(*Kāmukāgama*, liv, 6, etc.)

**RAURAVA**—A type of storeyed building.

A class of nine-storeyed buildings (*M.*, xxvii, 10 ; see under PRĀSĀDA).

**LAKSHMI-SK(-ST)AMBHA** (see STAMBHA)—A type of column : the main pillar of a house, which is believed to be the abode of the guardian angel of the house.

**LAMBANA**—A pendant, a moulding of the front portico, same as alambana or plinth (*M.*, xix, 28).

(*M.*, xviii, 285 ; see MUKHA-BHADRA.)

Śikharālambanāntarṁ cha vedi-tāra-samarvitam |

(*M.*, xix, 27.)

Lambanordhve dalaṁ badhyā . . . . |

(*Ibid.*, 39.)

Utsedhe cha tri-bhāgaikarṁ tasyādho chāgra-lambanam |

(*Ibid.*, 170.)

Tr(i)yaṁsarṁ chāgra-vistāraṁ lambanaṁ pañcha-bhāgikam |

(*Ibid.*, 172.)

See also *M.*, xx, 25, etc.

A pendant (*M.*, l, 15, etc.).

**LAMBA-PATRA**—An ornament shaped like a leaf.

(*M.*, li, 73 ; see BHŪSHANA.)

**LAMBA-MĀNA**—The measurement along the plumb lines.

(*M.*, lv, 3-6 ; see under MĀNA.)

**LAMBA-HĀRA**—A kind of long necklace, a pendant.

(*M.*, l, 301 ; see BHŪSHANA.)

**LALĀṬA(-MANDAPA)**—Same as muṇḍa-harma, and chūli-harma, a tower, a top-room.

(*M.*, xxxiv, 400, 406, 409, 414, 429, 454, 505, 568.)

Same as VAKTRA and NETRA (*M.*, xxxv, 257-260).

**LĀṄGALA**—The plough.

For its architectural details *see Mānasāra* (Chap. v, 55-77).

**LĀṄGALĀKĀRA**—Anything shaped like the plough, a pavilion with three faces, a type of hall.

(*M.*, xxxiv, 553 ; *see* under MAṆḌAPA ;  
xxxv, 67 ; *see* under ŚĀLĀ.)

**LĀṄGALA-BHITTI**—A kind of round corner wall, shaped like the plough.

Karṇe lāṅgala-bhittiḥ syād bhramarāvṛita-bāhyake ।

(*M.*, xxxiv, 333.)

Prapāgraika-dvi-bhāgaṁ vā karṇe lāṅgala-bhittikam ।

(*Ibid.*, 225.)

**LIṄGA**—A distinguishing mark, a badge, a symbol, an emblem, the genital organ, the image of a god, an idol, the emblematical phallus of Śiva.

(1) *Mānasāra* (Chap. LI, 1-376, named Liṅga) :

Various classifications of phalli have been given (line 2 f.). They are classified firstly into six heads : (1) Śaiva, Pāsupata, Kāla-mukha, Mahāvṛata, Vāma and Bhairava ; secondly, into four : (2) Sama-karṇa, Vardhamāna, Śivāṅka and Svastika ; thirdly, into four with regard to height : (3) Jāti, Chhanda, Vikalpa and Ābhāsa ; fourthly, into three types with regard to breadth or width : (4) Nāgara, Drāviḍa and Vesara (line 99) ; fifthly, into five : (5) Svayambhu or Udbhūta, Daivika, Mānusha, Gāpava and Ārsha ; sixthly, into two : (6) Āthmārtha (for one's personal worship), and Parārtha (for others, for public worship) ; again into two : (7) Eka (single) liṅga, and Bahu-liṅga (phalli in group) ; then into many kinds : such as (8) Vajra, Svarṇa, etc., with regard to materials of which they are made ; and lastly into two : (9) Kṣhaṇika (for temporary worship) as contrasted with the (10) Sthira or permanent liṅga. All these kinds of phalli are described at great length. Various alternative measures are prescribed for each of them (lines 13-376). In some cases as many as 36 alternative heights have been suggested. But in most cases their number is 9. The 9 alternative heights of a phallus are determined in some cases by a comparison to different parts of the body of the worshipper (yajamāna). The height of the phallus may reach the worshipper's sex-organ, navel, heart, breast, arm-joint, chin, nose, eye, or be equal to his full height. Another comparative measurement is given with regard to the Garbha-griha or adytum. Various absolute measures are also given in some cases. The set of the nine alternatives



prescribed for height may begin with one cubit and end with four cubits and a half, the increment being by half a cubit. The breadth or width of the phallus is in like manner discussed at great length.

- (2) Athātaḥ saṁpravakshyāmi liṅga-lakṣhaṇam uttamam |  
 Susnigdham cha suvarṇam cha liṅgam kuryād vichakṣhaṇaḥ ||  
 Prāsādasya pramāṇena liṅga-mānaṁ vidhiyate |  
 Liṅga-mānena vā vidyāt prāsādaṁ śubha-lakṣhaṇam ||

(*Matsya-Purāṇa*, Chap. CCLXIII, v, 1-2.)

Etat sāmānyam uddiṣṭam prāsādasyeḥ lakṣhaṇam |  
 Tathānyam tu pravakshyāmi prāsādaṁ liṅga-mānataḥ ||

(*Ibid.*, Chap., CCLXIX, v. 7.)

Evam ratna-mayaṁ kuryāt sphaṭikaṁ pārthivaṁ tathā |  
 Subhaṁ dāru-mayaṁ chāpi yad vā manasi rochate ||

(*Ibid.*, Chap. CCLXIII, v. 25.)

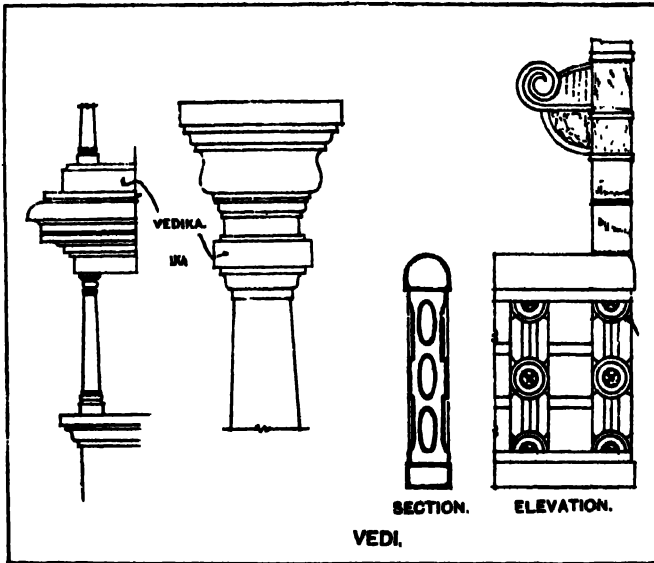
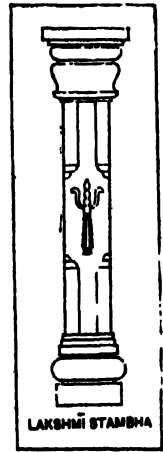
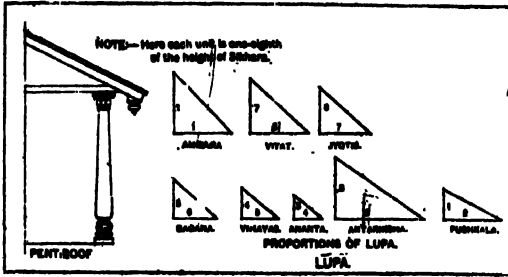
- (3) In the *Bṛihat-saṁhitā* (LVIII, 53-55) where Varāhamihira seems to have condensed the details from the *Matsya-Purāṇa*, are given especially the architectural characteristics :

Liṅgasya vṛitta-paridhiṁ dairghyeṇāsūtrya tat tridhā vibhajet |  
 Mūle tach chaturaśraṁ madhye tv-aṣṭāśri vṛittam ataḥ ||  
 Chaturaśram avani-khāte madhyaṁ kāryaṁ tu piṇḍikāśv-abhre |  
 Dṛiśyochchhrāyeṇa samā samantataḥ piṇḍikā śvabhṛāt ||

(For the construction of an emblem of Śiva) set out in the length the (measure of the) circumference of the round part and divide the whole phallus into three portions, of which the part at the bottom must be quadrangular, that in the midst octangular, and the rest round. (The same shapes are prescribed in the *Mānasāra*). Sink the quadrangular portion into a pit in the earth and put the middle member into the cavity of the pedestal. The pedestal is visible upwards to its cavity, in all directions over an extent equal to its height.'—(*Bṛihat-saṁhitā*, LVIII, 53, 54, *J.R.A.S.*, N. S., Vol. VI, p. 329, notes 1, 2.)

- (4) Sarveshām eva liṅgānām lakṣhaṇam śriṇu sāmpratam ||  
 Madhya-sūtram samāsādyā brahma-rudrāntikā budhaḥ |  
 Shoḍaśāṅgula-liṅgasya śaḍ-bhāgair bhājito yathā ||  
 Tad vaiyamana-sūtrābhyāṁ mānaṁ antaram uchyate |  
 Yavāśṭam uttare kāryaṁ śeṣhāṇām yava-hānitaḥ ||  
 Adho-bhāgam tridhā kṛtvā tv-ardham ekaṁ parityajet |  
 Aṣṭadhā tad-dvayaṁ kṛtvā ūrdhva-bhāga-trayaṁ tyajet ||  
 Ūrdhvaṁ cha pañcamād bhāgād bhrāmya-rekhām pralambayet |  
 Bhāgam ekaṁ parityajya saṁgamaṁ kārayet tayoḥ ||  
 Etaṁ sādharmaṇam proktaṁ liṅgānām lakṣhaṇam mayā ||

(*Agni-Purāṇa*, Chap. LIII, vv. 8-13.)





- (5) Svayambhuvaṁ vāṇa-liṅgaṁ daivikaṁ chārshakaṁ tu iti ।  
Bhā-(Gā)navam mānushaṁ liṅgam shaṭ prakāraṁ prakīrtitam ॥

(*Kārikāgama*, I, 35.)

Details of these Liṅgas (*see ibid.*, 36-43) are the same as given in the *Mānasāra*.

The pīṭha (pedestal) of the Liṅga (phallus) is described.—(*Ibid.*, 44-52.)  
Twelve Jyotir-liṅgas :

- (1) Somanātha (at Verawal, Junagadh State, Guzrat).
- (2) Trimbakeśvara (at source of the Godāvari, Nasik).
- (3) Mummaleśvara (at Onkar, Mandhata, district Nimar, C. P.).
- (4) Mahākāleśvara (at Ujjain).
- (5) Kedarnātha (at Kedar, Garhwal District).
- (6) Viśvanath (at Benares).
- (7) Vaidyanātha (in Santal Pargana, district Birbhum, Bihar),

or

- Vajjnātha (at Parli, Hyderabad State, Deccan).
- (8) Rāmeśvara (at Ramnad District, Madras).
- (9) Mallikārjuna (at Śrīśaila, Carnool District, Madras).
- (10) Nāganātha (near Dwaraka, Guzrat, or at Oundh, Hyderabad, Deccan).
- (11) Gṛiṣheśvara (Pūrṇa-jyotish, near Ellora Caves, Hyderabad, Deccan).
- (12) Bhīma-śaṅkara (30 miles from Poona).

*N.B.*—These do not include three other famous liṅgas, namely :

- (A) Paśupati-nātha (at Katmandu, Nepal).
- (B) Amarnātha (in Kasmir).
- (C) Kailāsanātha (on the Mānas-sarovara, in the Himalayas).

LIṄGA(-MUDRĀ)-STAMBHA—A pillar marked with the liṅga or emblem of Śiva (*see* under STAMBHA).

LU(-Ū)PĀ—A sloping and projecting member of the entablature, etc., representing a continued pent-roof ; it is made below the cupola, and its ends are placed as it were suspended from the architrave and reaching the stalk of the lotus below. Slope or breadth (*M.*, xxx, 135.)

(*See Rām Rāz, Ess. Arch. of Hind.*, p. 52.)

- (1) Atha saṁkshyipa vakshyāmo lupānām lakṣhaṇam vayam ।  
Uttarasyānurūpeṇa tāsām tāram udiritam ।  
(*Vāstu-vidyā*, ed. Gaṇapatī Śāstrī, x, 1, f.)

- (2) Lūpāroha-kriyā-yuktam anyat pūrvokta-vartmanā ।  
Athavā-sarva-śālāyām lūpārohaṇam eva vā ॥

(*Kārikāgama*, xxxv, 69.)

## (3) In connexion with the entablature :

Lupākāraṁ tu tat kuryād dalasyākṛitir eva vā |

(*M.*, xvi, 139 ; see also 20, 195.)

An account is given in great detail (*M.*, xviii, 168–278, xxx ; 132, etc.).

The lupās (inner roof or the ceiling) prescribed for temples are technically called ambara, vyaya, jyotis, gagana, vihāyas, ananta, antariksha, and pushkala ; and those for residential buildings are called mahī, jyā, kāśyapī, kshoṇī, ūrvī, gotrā, vasuṁ-dharā, and vasudhā.

(*M.*, xviii, 177–184.)

LOGA—Probably same as thūna (posts, pillar), clod, pole, memorial pillar erected after the earth is piled up from about the grave (see further details under THŪNA and ŚAṆKU).

LOSHṬĀ (see KALAŚA)—A lump of earth, a clod, an architectural object resembling partly the finial.

The *Vāstu-vidhyā* (ed. Śāstri) has a chapter (xvi) named Mṛit-loshṭa-lakṣhaṇa (description of the lump of earth). In it loshṭa is directed to be built on the stūpi (top, dome, vv. 27, 37). At the top of a building the kalaśa (water-jar, finial) is generally built. It is variously named in this last chapter of the work : loshṭāni (vv. 28–30, 32), nīvra-loshṭāni (v. 34), krūra-loshṭāni (v. 35), koṇa-loshṭāni, puṭa-loshṭāni, ūrdhva-loshṭāni (v. 36), and svarṇādi-loshṭa (v. 39).

LOHA (see under ĀBHĀSA)—Iron used both as an architectural and sculptural material.

One of the metals of which idols are made :

(1) Mṛiṇmayam yadi kuryāc chech chhūlaṁ tatra prakalpayet |

Lohajam tv-aviśeṣeṇa madhūchchhishṭena nirmitam ||

(*Suprabhedāgama*, xxxiv, 21.)

(2) Evaṁ dvi-tryaṅgulaṁ vāpi lohajaiḥ pratimodayam |

(*M.*, xii, 119.)

Lohajair mṛit-sudhā chaiva . . . |

Uttamaṁ lohajam bimbaṁ pīṭhābhāsaṁ tu chottamam |

(*M.*, li, 6, 19.)

See further illustrations under ĀBHĀSA.

VAKTRA—The face, a moulding.

A moulding of the column (*M.*, xv, 212–219).

The face (*M.*, lvii, 20, etc.).

See the lists of mouldings under ADHISṬHĀNA and UPAPĪṬHA.

**VAKRA**—Bent, winding, curved, curled, a type of octagonal building.

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 21, 23, 31-32; see under PRĀSĀDA.)

**VAJRA**—Adamantine, forked, zigzag, a diamond, the thunderbolt of Indra, a type of column, a paste, plaster or cement, a type of building.

A column with eight rectangular sides (*Bṛihat-saṃhitā*, LIII, 28).

A paste, plaster or cement : Kalkaḥ kṛito dvitīyo'yaṃ vajrākhyāḥ ।

(*Bṛihat-saṃhitā*, LVII, 6, *J. R. A. S.*, N. S., Vol. VI, p. 322.)

A type of octangular building :

(1) *Agni-Purāṇa* (Chap. CIV, vv. 20-21, see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. XXXVII, vv. 21, 23, 31-32; see under PRĀSĀDA).

**VAJRA-KĀNTA**—A type of storeyed building.

A class of eleven-storeyed buildings (*M.*, XXXIV, 19-25; see under PRĀSĀDA).

**VAJRA-KUMBHA**—A moulding of the base and the pedestal, generally placed between a cyma and petal, it is so called, as it resembles an elongated pitcher.

A moulding of the base (*M.*, XIV, 253; see the list of mouldings under ADHIBHṬHĀNA).

A moulding of the pedestal (*M.*, XIII, 74; see the list of mouldings under UPAPĪṬHA).

**VAJRATARA**—A paste, plaster, cement.

Vajratara nāma kalko'nyāḥ ।

(*Bṛihat-saṃhitā*, LVII, 7, *J.R.A.S.*, N. S., Vol. VI, p. 322.)

**VAJRADHĀTU-MANḌALA**—The top floor of five-storeyed Nepalese temples.

(For details see DHARMADHĀTU-MANḌALA.)

**VAJRA-PAṬṬA**—A moulding, a diamond band, a fillet.

A moulding of the base (*M.*, XIV, 258; see the list of mouldings under ADHIBHṬHĀNA).

**VAJRA-PĀDA**—A diamond pillar, a type of small pillar.

A pillar of the bedstead (*M.*, XLIV, 61).

**VAJRA-BANDHA**—A diamond band, a type of base.

A class of bases (*M.*, XIV, 259-271; see the list of mouldings under ADHIBHṬHĀNA).

VAJRA-LEPA—A paste, plaster, cement.

Kalko'yaṁ vajra-lepākṣhaḥ ।

(*Bṛihat-saṁhita*, LVII, 3 ; see *J.R.A.S.*, N. S., VI, p. 321.)

VAJRA-LIṄGA (see LIṄGA)—A kind of phallus.

(*M.*, LI, 330 ; see under LIṄGA.)

VAJRA-SAMGHĀTA—A paste, plaster, cement.

Maya-kathito yogo'yaṁ vijñeyo vajra-saṁghātaḥ ।

(*Bṛihat-saṁhitā*, LVII, 8 ; see *J.R.A.S.*, N. S., Vol. VI, p. 322.)

VAJRA-SVASTIKA—A type of building.

A kind of octangular building (*Agni-Purāṇa*, Chap. cv, vv. 20-21 ; see under PRĀŚĀDA).

VAJRĀSANA (see BODHI-MANḌA)—A diamond throne, the miraculous throne under the Bodhi-tree at Gaya, on which Buddha and his predecessors sat when attaining perfect wisdom.

(1) ' Bodhimanḍa is the name of the miraculous throne under the Bodhi-tree at Bodh Gaya, also called the Vajrāsana or diamond-throne, on which Buddha and his predecessors sat, when attaining bodhi or perfect wisdom.'—(*Ind. Ant.*, Vol. xv, p. 257, c. 1-2.)

(2) Tenaitad atra kṛitam ātma-manovad uchchair vajrāsanasya bhavanāṁ bhuvanottamasya ।

' He erected here for the diamond throne, the best thing in the world, this habitation, lofty like his own mind.'—(Ghosrawa Buddhist inscrip., lines 14-15, *Ind. Ant.*, Vol. xvii, pp. 310, 311, 308, note 5.)

VADHŪ-NĀṬAKA—A theatre for females, a gallery, a balcony.

Vadhū-nāṭaka-saṁghaiś cha saṁyuktaṁ sarvataḥ purim ।

Commentary : vadhūnām nāṭaka-śālā ।

(*Rāmāyaṇa*, I, 5, 12.)

VANA-DURGA (cf. NAGARA)—A forest-fort.

(See details under DURGA.)

VAPRA—A rampart, a wall, a moulding of the base (plinth), cavetto, an architectural member at the upper part of a building, (parapet), a summit, a bank, a mound, a ditch, the foundation of a building, the gate of a town.

(1) Chatur-daṇḍāvakṛiṣṭaṁ parikhāyāḥ śhaḍ-daṇḍochchhritam avarudham tad-dvi-guṇa-vishkambhaṁ khātād vapraṁ kārayet ।

Vaprasyopari prakāram . . . . ।

(*Kauṣīliya-Artha-śāstra*, Chap. xxiv, pp. 51, 52.)

- (2) The surrounding wall of a village :

Grāmasya parito bāhye rakshārthaṁ vapra-saṁyutam |

Bāhye vapraṁ suvṛittakam . . . |

(*M.*, viii, 11, 37.)

Evam grāma(ṁ)-prasāraṁ cha bahir vapra-saṁyutam |

Paritaḥ parikhā bāhye vapra-yuktaṁ tu kārayet |

(*M.*, ix, 61, 107 ; see also 147.)

- In connexion with towers :

Etat paṭṭanam ākhyātam vapra-yata-samanvitam |

Sarveśhām api durgāpāṁ vapraiś cha parikhair vṛitam |

(*M.*, x, 66, 106.)

A moulding of the base (*M.*, xiv, 20, 24, etc.; see the list of mouldings under ADHISHṬHĀNA).

- In connexion with buildings of one to twelve storeys (parapet) :

Adhishṭhāna-samaṁ mañchaṁ mañchordhve'rdhena vaprayuk |

(*M.*, xxi, 14, etc.)

Mālikopari vapraṁ syād adhishṭhānaṁ samodayam |

(*M.*, xxxi, 64.)

- (3) Wall (Dabhoi inscrip. v. 111, *Ep. Ind.*, Vol. I, p. 31).

- (4) Rampart (Badnagar Prasasti of the reign of Kumārapāla, v. 23 *Ep. Ind.*, Vol. I, pp. 300, 303).

- (5) Yasyottuṅga-turaṅga-tāṁḍava-bhavaḥ prāṁsūtkaṛaḥ sainikaḥ svaḥ-sīmāsu marud-gaṇābhaya-mahā-vapra-prākāro'bhavat |

(Sridhara's Devapattana Prasasti, v. 13,

*Ep. Ind.*, Vol. II, p. 441.)

- (6) Rāmeśvarāya ghaṇa-maṁṭapa-vapra-saudha-ramyālayaṁ samatanot samatā rasajñāḥ |

'He erected a temple (ālaya), adorned with a solid hall (maṅṭapa), a wall and a plastered mansion (saudha) to Rāmeśvara.'—(Mangalagiri pillar inscrip., v. 39 ; see also vv. 29, 38, 48, *Ep. Ind.*, Vol. VI, pp. 123, 121, 122, 124, 112, 113, 114, 115.)

- (7) Vapra-gopura-yutair nava-harmyaiḥ |

(Kondavidu inscrip. of Krishnaraya, v. 26,

*Ep. Ind.*, Vol. VI, pp. 237, 231.)

(8) He, the emperor of the south, caused to be made of stone for Vijaya-Nārāyaṇa (temple), latticed window, secure door-frame (kavāṭa), door-lintel, kitchen, ramparts (udagra-vapra), pavilion, and a pond named the Vāsudeva-tīrtha.'—(*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 72 ; Transl., p. 61 ; Roman Text, p. 142, line 8.)

#### VAPRA-BANDHA—A type of base.

A class of bases (*M.*, xiv, 250, 259 ; see the list of mouldings under ADHISHṬHĀNA).



VAHYA—*Lit.* that which can be carried, a couch used by women (*R.-V.*, vii, 55, 8, *A.-V.*, 5, 3 women sitting on it, *A.-V.*, 20, 3 weary bride mounting it. *A.-V.* xiv, 2, 30), canopied reclining arm-chair with poles or handles for carriers, bearing all forms, a bed on which the bride mounts and lies with her groom in the marriage ritual (*A.-V.*, xiv, 2, 20).

VI(VAI)RĀṬA—A type of storeyed building, a class of twelve-storeyed buildings once prevailing in the country of Virāṭa (Jaipur).

Chatur-adhika-tri-daśa-bhāgaṃ harmya-viśālake |  
 Aṣṭāmsena mahā-śālā pārśve śālā śivāmsakam |  
 Dvyaṃsam pañjara-śālā tad-ardham chāntarālakam |  
 Anuśālā tri-bhāgaṃ syād ekāmsam antarālakam |  
 Dvi(dvya)ṃsam pañjara-śālā cha pārśve bhā(hā)rah śivāṃśakam |  
 Kūṭā-ṇava(-nāṃ cha) dvi-bhāgaṃ syāt sarvaṃ yuktyaṃ sa-  
 bhadrakam  
 Mahā-śālā yugāmsena madhyam atra (bhadrām) prakārayet |  
 Tale tale vimāne tu śālā-pañjara-śoḍaśam |  
 Kshudra-śālā dvi-hārā cha tan-madhye chāshṭakam bhavet |  
 Chatur-dikshu mahā-śālā chatush-kūṭam tale tale |  
 Evaṃ vairāṭa-kāntam syāch chhesham bhāgaṃ tu pūravat |

(*M.*, xxx, 17-27.)

VARDHAKI—An architect, the designer, the painter.

(*See* details under *STHAPATI.*)

VARDHANI(I)—A type of building.

A class of round buildings (*Agni-Purāṇa*, Chap. civ, vv. 17-18 ; *see* under *PRĀSĀDA*).

VARDHAMĀNA—A class of buildings, a type of storeyed mansion, a kind of phallus, a joinery, an entablature.

(1) A class of śālās or mansions (*M.*, xxxv, 4 ; *see* also 303, under *ŚĀLĀ*).

A kind of phallus (*M.*, lii, 4 ; *see* under *LĪṄGA*).

A kind of joinery (*M.*, xvii, 84, *see* under *SANDHI-KARMAṆ*).

An entablature (*see* under *PRĀSTARA*).

(2) Dvārāṇḍo'nta-gataḥ praḍakṣiṇo' nyaḥ śubhas tatas chānyaḥ |

Tad-vach cha vardhamāne dvāraṃ tu na dakṣiṇam kāryam ||

\* The Vardhamāna has a terrace before the (chief) entrance, extending to the end ; then, when you proceed in a direction from left to right, another beautiful terrace and thereon again, another in the aforesaid direction. No southern door should be made in it.—(*Bṛihat-saṃhitā*, liii, 33, *J.R.A.S.*, N.S., Vol. vi, pp. 285-286.)

(3) Vedāsyam vardhamānakam—the Vardhamāna house (śālā) has four faces.—(*Kāmikāgama*, xxxv, 88.)

An entablature—(*Kāmikāgama*, LIV, 7).

VA(BA)LABHI(-I)—The roof, the frame of a thatch, the topmost part of a house, a class of storcyed buildings, a type of entablature, a class of rectangular buildings, a top-room, a turret, a balcony, an awning, a tent, any temporary erection on the flat roof of a house.

(1) Tri-çandra-śālā bhaved valabhi ।

‘The roof must have three dormer-windows.’

Dr. Kern adds the following :

‘Comm. valabhī vātāyana ; vātāyana in general means “any place whither one goes to take an airing ;” sometimes “a window” is intended by it, other times the flat “roof” of an Indian house. In the latter acceptation it is here used by Utpala, and frequently elsewhere ; e.g. *Kāthāsarit-sāgara* (95, 18) : sva-gṛihottuṅga-vātāyana-gataḥ ; (103, 162) : harmya-vātāyanāruḍhaḥ, etc.’—(*Bṛihat-saṁhitā*, LVI, 25, LVII, 4, *J.R.A.S.*, N. S., Vol. VI, pp. 319, 322, note.)

(2) A class of five-storeyed buildings (*Matsya-Purāṇa*, Chap. CCLXIX, vv. 35, 50, 53 ; see under PRĀSĀDA).

A type of rectangular building :

(3) *Agni-Purāṇa* (Chap. CCIV, vv. 16-17 ; see under PRĀSĀDA).

(4) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21-22, 26-27 ; see under PRĀSĀDA).

(5) Prāsādāgravimāneshu valabhishu cha sarvadā ।

(Rāmāyana, II, 88, 5, see further context under PRĀSĀDA.)

(6) Nāga-lokam . . . aneka-vidha-prāsāda-harmya-valabhī-nirūhya-śata-saṁkulam ।

(*Mahābhārata*, I, 3, 133.)

(7) A synonym of the entablature (*M.*, XVI, 19 ; see under PRĀSTARA).

A moulding of the entablature (*M.*, XVI, 79 ; see the list of mouldings under PRĀSTARA).

In connexion with four-storeyed buildings :

Nānādhishṭhāna-pādaiś cha valabhibhiś cha bahu-bidhaiḥ ।

(*M.*, XXII, 94.)

(8) Kailāsa-tuṅga-śikahra-pratimāni chānyāny-ābhānti dirggha-valabhīni sa-vedikāni ।

Gāndharvva-śabda-mukharāṇi nivishṭa chitra-karmmāṇi lolakadali-vanaśobhitāni ॥

‘And other long buildings on the roofs of the houses, with arbours in them, are beautiful, being like the lofty summits of (the mountain) Kailāsa ; being vocal with songs (like those of the Gandharvas ; having

pictured representations arranged (in them) ; (and) being adorned with groves of waving plantain trees.'—(Mandasor stone inscrip. of Kumāragupta, lines 6–7, *C. I. I.*, Vol. III, F. G. I., no. 18, pp. 81, 85.)

(9) . . . puṇyābhivṛddhy-arthaṁ vaḍ(-l)abhīm kāra(ya)yitvā  
ananta-svāmi-pādaṁ pratishṭhāpya . . . !

'Having caused (a temple having) a flat roof to be made, for the sake of increasing the religious merit of . . . (and) having installed the feet of (the god) Anantasvāmin.' . . .

'Vaḍabhi (also called valabhī, *see* above) is explained as meaning the wooden frame of a roof; a flat roof, house-top, top-room, turret, top-floor, balcony; any temporary erection on the top of a palace: an awning, a tent; but it seems to refer to a building here, and to denote a flat-roofed temple.'—(Gadhwa stone inscrip., line 2, *C. I. I.*, Vol. III, F. G. I., no. 66, p. 268, note 9.)

(10) 'Whose arms like jewelled pillars supporting the roof (valabhī) of the three worlds.'—(*Ep. Carnat.*, Vol. V, Part I, Channarayapatna Taluq, no. 179, line 2; Roman Text, p. 462, Transl., p. 202.)

**VALAYA**—An ornament, a type of building, a moulding.

(1) A bracelet (*M.*, XLIX, 138; *L.*, 33, etc.; *see* BHŪSHANA; Deopara inscrip. of Vijayasen, v. 11, *Ep. Ind.*, Vol. I, pp. 303, 313.)

A class of round buildings :

(2) *Agni-Purāṇa* (Chap. CIV, vv. 12–18, *see* under PRĀSĀDA.)

(3) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21, 23, 28, 29; *see* under PRĀSĀDA.)

(4) The sixth moulding from the top of an entablature (*Kāmikāgama*, LIV, 9; *see* under PRĀSTARA.)

**VALLI** (*cf.* VĀTĀYANA)—A type of window.

(*M.*, XXXIII, 483; *see* under VĀTĀYANA.)

**VASATI** (*see* BASADI)—A mart, a trading settlement, a quarter of a town (*Mārkaṇḍeya-Purāṇa*, Chap. XLIX, 49–50), a residence, a shrine, a Jain monastery or temple containing the image of a Tirthaṅkara.

(Jaina Rock inscrip. at Vallimalai, no. A, v. 2, *Ep. Ind.*, Vol. IV, p. 141, note 7, and refer to Mr. Kittel's Dictionary, p. 1383.)

**VASUDHĀ**—The earth, a kind of pent-roof.

(*M.*, XVII, 178; *see* under LUPĀ.)

**VĀSTRA-NIP(Y)A**—A jar-shaped ornament of the column.

Kumbha-madhya rakta(ratna)-bandhaṁ vastra-nip(y)āṁ cha vinyasat |

(*M.*, XV, 223.)

VA(VĀ)-HA-(KA, LA)—Bearing, carrying, supporting, a way, a road, a vehicle, a conveyance, a river, a channel.

- (1) ' Given the village with . . . its hills and water-courses (vāhalā).  
(Plate of Deva Varmadeva, line 8 f., *Ind., Ant.*,  
Vol. xvi, pp. 206, 207, note 33.),  
(2) ' Vāhaka—a water-channel in the Gwalior inscrip. of Saṁvat  
933 ; Hultzsch in *J. D. Morg Ges.*, Vol. xl, p. 37 (vāhā, a watercourse,  
Elliot, *Suppl. Glossary*, Vol. II, p. 225) ; Grierson, *Bihar Pseant Life*  
ss. 954).'  
(3) V(b)allāla-devakasya vahaḥ |  
' Water-channel constructed by Ballaladeva.'

(Lala-Pahaḍ Rock inscrip. of Narasimhadeva, line 6,  
*Ind. Ant.*, Vol. xviii, pp. 212, 213, note 2.)

VAHANA (*see* under STAMBHA)—Conveying, carrying, supporting,  
flowing, a boat, a raft, a conveyance, part of a column.

Stambham vibhajya navadhā vahanam bhāgo ghato'sya bhago'nyah |  
(*Bṛihat-saṁhita*, LIII, 29, *J. R. A. S., N. S.*, Vol. vi, p. 285.)

VAMŚA—' A bamboo, a shaft, a flute, a reed-pipe, a cross-beam, a  
oint, the backbone, a term for the rafters and laths fastened to the  
beams of a house (as generally made of split bamboos), or laths run-  
ning across a roof.'

- (1) Bhojanam nānuvaṁśam syāch chhayanam cha tathaiva cha |  
Anuvaṁśa-griha-dvāram naiva kāryam śubhārthibhiḥ ||  
Dvija-gehasya vaṁśam tu pūrvāgram parikalpayet ||  
Yāmyāgram kshatriyāṇām tu pāśchimāgram viśām bhavet |  
Śūdrāṇām uttarasyām syād esha vaṁśāgrako vidhiḥ ||

(*Kāmikāgama*, XXXV, 147, 149, 150.)

Prāg-vaṁśayor anya-vaṁśaiś cha nālikera-dalādibhiḥ |  
Āchchhāditaḥ prapā nāma prastaram chātra maṇḍapaḥ ||  
Vaṁśādir aśiṁśa-sahitā śikhara-stūpikānvitaḥ |  
Nāsikā-mukha-paṭṭāṁśā śāleti parikīrtitā ||—(*Ibid.*, I, 88, 90.)  
Jayantī vaṁśakā jñeyā tulā-vad anumārgakam ||

(*Ibid.*, LIV, 15.)

Daṇḍikā-vāra-saniyuktāni śaṅ-netra-sama-vaṁśakam |  
Vaṁśopari gatāḥ śālās chatasro' śhānanānvitāḥ ||

(*Ibid.*, XLII, 19.)

- (2) The backbone (*M.*, VII, 264 ; *see* also LXV, 158 ; LXVII, 82).  
In connexion with the entablature :

Yathā-balam yathā-bhāram tathā vaṁśādi(ṁ) yojayet |

(*M.*, XVI, 198.)

In connexion with the pillar :

Kuṭya-vaṁśa-praṭi(r)-vaṁśaṁ tuṅgaṁ yat tu samaṁ bhavet |  
Tuṅgasyādhika-hīnam ched dvi-panktim nityam āvahet |

(*M.*, xvii, 120-121.)

In connexion with the pavilion (maṇḍapa) :

Adhishṭhānaṁ vinā kuryāj jannādi-prastarāntakam |  
Athavā pada-vaṁśam cha samyuktaṁ tat prapāṅgakam |

(*M.*, xxxiv, 14-15.)

Vaṁśa-mūlāgrayoḥ sarve karkarikṛita-netrakam |

(*Ibid.*, 399.)

In connexion with the hall (śālā) :

Vaṁśa-mūlāgrayor vāsaṁ vaṁśa-mūlaika-vāsakam |

(*M.* xxxv, 128.)

Harmya-tāra-vaśād dvārāṁ vamaśādhishṭhāna-pāduko |

(*M.*, lxiv, 5.)

**VAMŚA-KĀNTA**—A class of twelve-storeyed buildings once prevailing in Vaṁśa-(ka), the capital of Kauśāmbi.

Tad eva hāram(-rā) tan-madhye chaika-bhāgena saushṭikam |  
Vaṁśa-kāntam iti proktaṁ śesham pūrvavad ācharet ||

(*M.*, xxx, 31-32, see also 28-30, under KERALA-KĀNTA.)

**VĀJANA**—A square or rectangular moulding resembling a fillet, i.e. a small band which is placed between mouldings and as the uppermost member of a cornice. (For its synonyms, see *M.*, xvi, 46-47.)

Ūrdhva-vājanam ekāṁśam aṁśaṁ tat paṭṭikā bhavet |

(*Vāstu-vidyā*, ed. Śāstri, ix, 24.)

The moulding at the top and bottom of the entablature (*Kāṁikāgama*, liv, 1 ; see under PRASTARA).

A crowning moulding of a column (*Suprabhedāgama*, xxxi, 108 ; see under STAMBHA).

A moulding of the pedestal (*M.*, xiii, 46, 51 ; see the list of mouldings under UPAPĪṬHA).

A crowning moulding of the base (*M.*, xiv, 9 ; see the list of mouldings under ADHISHṬHĀNA).

A moulding of dolā (swing, hammock).

Vājanam cha dvi-valayaṁ syād ayasena balābalaṁ |

(*M.*, l, 106.)

**VĀJI-ŚĀLĀ**—A horse stable.

(*M.*, xl, 362 ; see under ŚĀLĀ.)

VĀṬA—A road, a fence, an enclosure, courtyard.

*Cf.* Vāṭa-bhūmi (*Kāmikāgama*, XXI, 3).

Corrupted to Bāḍa 'enclosure of a town or village, fence, wall, hedge.'

(*Ind. Ant.*, Vol. IV, p. 211, footnote under KAMPANA.)

VĀṬAKA—A hamlet.

Tāmara-cheru-grāmo nāma ।

Chikhali-vāṭakena samam ekikṛitya . . . ।

'The village named Tāmara-cheru combined with the Chikhali hamlet.'—(The Madras Museum Plates of Vajrahasta III, lines 43-44, *Ep. Ind.* Vol. IX, pp. 94-95.)

VĀṬIKĀ—A small house, a garden house, a pleasure pavilion, an orchard.

Vāme bhāge dakshiṇe vā nṛipāṇām tredhā kāryā vāṭikā kriḍanār, tham ।

'At the left or right side a three-fold pavilion should be built for the sport of the kings.'—(*Śilpa-śāstra-śāra-saṁgraha*, IX, 29.)

Uttare saralais tālaiḥ śubhā syāt pushpa-vāṭikā ।

(*Matsya-Purāṇa*, Chap. CCLXX, v. 29.)

Bhaktyā vidhāpitam chābhyām āmrālohita-maṁdiram (mā)ṭri-ha (rmye)ṇa (saṁyu)ktaṁ vāpyā vāṭikayāpi hi ।

'Out of devotion he caused to be erected a temple of red colour and surrounded it with shrine of some mātā ( ! three shrines), a step-well and an orchard.'—(Dhanop inscrip. of Chachcha, v. 6, *Ind. Ant.*, Vol. XL, pp. 175, 174.)

VĀṬA—A type of building, a house with an eastern and southern hall.

(*Bṛihat-saṁhitā*, LIII, 39; see under PRĀSĀDA.)

VĀṬA-KSHETRA (see VĀTĀYANA)—A place for airing, a roof.

Kuṭumba-bhūmi-mānaṁ tu vāṭa-kshetra-vivarjitam ।

(*Kāmikāgama*, XXI, 3.)

VĀṆA-LIṄGA—A kind of phallus.

(*Kāmikāgama*, I, 35, 36; see under LIṄGA.)

VĀTĀYANA—A window, a porch, a portico.

(1) Description of windows (*M.*, XXXIII, 568-597) :

Windows are constructed in all kinds of buildings (*ibid.*, 569-572).

The latticed windows are also prescribed :

Narāṇām jālakam sarvaṁ devānām api yogyakam । (572).

The measures, etc., are left to the discretion of the architects (573).

The general plan of windows is also given (574-581).

Their shapes are represented by the following designs : nāga-bandha (snake's band), valli (creeper), gavāksha (cow's eye), kuñjarāksha (elephant's or deer's eye), svastika (cross figure), sarvato-bhadra (a figure with four façades), nandyāvarta (a figure with openings on the sides), and pushpa-bandha (flower-band) (*ibid.*, 582-584).

Their architectural details are given (*ibid.*, 585-600).

(2) Udag-āśrayaṃ cha vārunyāṃ vātāyana-samanvitam |

(*Garuḍa-Purāṇa*, Chap. XLVI, v. 16.)

(3) Prakāśārtham alpam ūrdhvaṃ vātāyanaṃ kārayet |

rṛatiloma-dvāra-vātāyana-bādhāyāṃ cha anyatra rāja-mārga-rathyābhyah |

(*Kauṭīliya-Artha-sāstra*, Chap. LXV, p. 167.)

VĀPI-(PI)-(KA)—A tank, a well, a reservoir of water.

(1) A tank (Dewal Praśasti of Lalla the Chhinda, v. 20, *Ep. Ind.*, Vol. I, pp. 79, 83).

(2) 'A well with a flight of stairs, while kūpa denotes an ordinary well.'—(Māheśvara's Commentary on the *Amarakōsha*, *Ep. Ind.*, Vol. VII, p. 46, note 2; p. 41, line 58.)

(3) Dakṣiṇa-diśābhāge kārāpitā vāpī tathā prapeyaṃ cha |

'In the southern part there has been made an irrigation well and also a watering-trough.'—(Grant of Bhimadeva II, V. S. 1266, line 26-27, *Ind. Ant.* Vol. XVIII, pp. 113, 115.)

(4) Vāpī-putake bhūmi-hala-vāhā |

'In the hollow ground below an irrigation well.'—(Grant of Bhimadeva II, Simba-sarivat 93, line 7, *Ind. Ant.*, Vol. XVIII, p. 110.)

(5) 'During the reign of Gaṇapati, the son of the prince Gopāla, the ṭhakkura Vāmana built a public tank (vāpikā).'—(Sarwaya stone inscrip. of Gaṇapati of Nalapura, vv. 23-28, *Ind. Ant.*, Vol. XXXI, p. 82.)

(6) Dharmmārthe svayam eva vāpī kārāpitā |

'For charitable purpose the step-well was caused to be constructed a his own cost.'—(Manglan stone inscrip., line 6, *Ind. Ant.*, Vol. XLI, p. 87.)

VĀMA—A kind of phallus.

(*M.*, LII, 3; see under LIṄGA.)

VĀRA—A day of the week, a door, a gate, a formula of architectural measurement, a verandah.

(*M.*, XXXIV, 170, 394, 529, 538, see details under SHAD-VARGA.)

VĀRA-(KA, ṆA)—A covering, an enclosure, a door, a gate.

*Kāmikāgama*, XXX :

Alindasya samantāt tu bhāgenaikena vārakam |

Pārsvayor ubhayaś chaiva chāgra-śālānusārataḥ || (77)

*Kāmikāgama*, xxxv :

Etat sapta-talam proktaṁ rājñām āvāsa-yogyakam || (84)  
 Tad-adhastāt samantāt tu bhāgenaikena vārakam || (85)  
 Śālā-bhāge tu alinde vā prithu-vārāśake api |  
 Vinyāsa tv-iṣṭa ākhyāto maṇḍapa ukta-bhūmike || (93)  
 Vinirgamasya chāyāmo tad-vṛiddhyā tasya vistarāḥ |  
 Dvi-guṇānto vidhyaḥ syād evaṁ syān madhya-vāraṇam | (102)  
 Madhye-vāraṇa-yuktaṁ vā tad-vihīnaṁ tu vā dvijāḥ |  
 Evambhūtaṣya vāsasya samantāt syāt khalūrikā || (103)

*Ibid.*, XLV :

Bahu-varga-yutaṁ vāpi daṇḍikā-vāra-śobhitam || (16)  
 Parito vāram ekāśmāṁ śālā-vyāso dvi-bhāgataḥ || (23)  
 Bahir-vāra-samāyuktaṁ vyāsa-pārśva-dvayor api || (26)  
 Saśīṣiṣṭa-vāra-samāyuktaṁ śaṣṭu chārdha-sabhā-mukham || (28)  
 Pūrvokta-sindukam (building) vāra-vṛiksha-sthala-samanvitam ||  
 (31)  
 Agre cha pārśvayoś chaiva kuryād ekāśmā-vārakam || (38)  
 Tad-bahir vāram ekāśmāṁ tad-bāhye tu vṛisha-sthalam |  
 Tad-bahiś cha chatur-dikshu dvyāśmāśmāṁ vāra-nishkramaḥ || (43)

See also vv. 44, 45, 46, 55, 56, etc.

*Ibid.*, XLII :

Utkrīṣṭe tu aṅkaṇam dvyāśmāṁ mārgas tu parito'śmātaḥ |  
 Antar-vāram athaikena śālā-vyāso dvi-bhāgataḥ || (23)

See *M.*, ix, 300, 519; xxxiii, 383; xxxiv, 119, 190, 200, 394, 408, 514  
 521, 526, 529; xxxv, 100, 120, 123, 238, 243, 265; xxxix, 128, etc.

VĀSA (-KUṬI, ŚĀLĀ, SABHĀ)—Residence, synonym of an  
 assembly-hall (*Amarakōsha*, ivi, 2, 3, 604), hall terrace.

(*M.*, xxxv, 43-46, 82-84, 127-128, 138, 142, 155-156  
 221, 227, 241, 250, 282, 286, 288, 383.)

VĀSANIKĀ—A dwelling for use in spring, a house for the spring  
 festival.

Tathā vanik-Mahallakena satkā vāsanikā pradattā—' by the Mahallaka  
 the satka (?) hamlet ( ? house) was given.'

Paśchimataḥ ṭhakkura-kurṇḍaṇakasya vāsanikā maryādā—' to the west  
 the boundary is the dwelling of the Brahman Kundana.—(Shergaḍh  
 stone inscrip., lines 12, 13, 14; see also 9, 10, 11, *Ind. Ant.*, Vol. xl, p. 176.)

VĀSA-RANĠA (see RANĠA)—The open or closed quadrangular  
 enclosure, the courtyard of a residential building.

Purato'lindam ekāśmāṁ bhittim kuryāt samantataḥ |  
 Mūlāgre dvi-dvi-bhāgena vāsa-ranḡam cha kalpayet |

(*M.*, xxxv, 118-119.)



VĀSTU—Architecture in the broadest sense implying the earth (dharā), building (harmya), conveyance (yāna), and bedstead (paryāṅka) (*M.*, III, 2-3). The building or harmya includes prāsāda, maṇḍapa, sabhā, śālā, prapā, and (a)raṅga. The conveyance or yāna includes ādika, syandana, śibikā, and ratha. The bedstead or paryāṅka includes pañjara, mañchalī, mañcha, kākāshṭa, phalākāsana and bāla-paryāṅka (*ibid.*, 7-12). The term denotes also villages, towns, forts, commercial cities, etc., a dwelling house, a group of houses (cf. PASTYĀ), a site (*R. V.*, IV, 37, 1, 2, *A. V.* 11, 12, 1, etc.). Sculpture is the handmaid of architecture and is secondarily implied by the term Vāstu.

(2) Nagarādika-vāstun̄ cha vakshye rājyādi-vṛiddhaye |

(*Agni-Purāna*, Chap. CVI, v. 1.)

(3) Prāsādārāma-durga-devālaya-maṭhādi-vāstu-māna-lakṣhaṇa-nirūpa-  
ṇam |

(*Garuḍa-Purāna*, Chap. XLVI, colophon.)

Cf. Āvāsa-vāsa-veśmādau pure grāme vaṇik-pathe ||

Prāsādārāma-durgeshu devālaya-maṭheshu cha |

(*Ibid.*, Chap. XLVI, vv. 2-3.)

(4) *Saṅgraha-tīromani* by Sarayū Prasad (xx, 1) quotes from one Vaśiṣṭha without further reference :

Vāstu-jñānam pravakshyāmi yad uktam brahmaṇā purā |

Grāma-sadma-purādīnām nirmāṇam vakshyate' dhunā ||

(5) Gṛham̄ kshetram ārāmas setu-bandhas taṭākam ādhāro vā vāstuḥ—Houses, fields, gardens, buildings of any kind (*see* SETU), lakes and tanks are each called Vāstu.—(*Kauṣṭhīya-Artha-Śāstra*, Chap. LXV, p. 166.)

(6) The heavenly architect Viśvakarman, the mythical originator of Vāstu, is stated to be the father of nine artisans—goldsmith (svarṇa-kāra), blacksmith (karma-kāra), brazier or utensil-maker (kārnasya-kāra), maker of shell ornaments (śaṅkha-kāra), carpenter (sūtra-dhāra), potter (kumbha-kāra), weaver (kuvindaka), painter (chitra-kāra), and florist, gardener or garland-maker (mālā-kāra).—(*Brahmavaivarta-Purāna*, Brahma-khaṇḍa, Chap. x, vv. 19-21.)

(7) On the different branches of architecture, Vitruvius agrees with the *Mānasāra* (1) :

It might be pointed out that Vitruvius deals with similar objects, in the same manner as in the *Mānasāra*. He describes the subject in three chapters :

'Of those things on which architecture depends.'

‘Of the different branches of architecture.’

‘Of the choice of healthy situations.’

On the first of these topics Vitruvius says that ‘Architecture depends on fitness and arrangement ; it also depends on proportion, uniformity, consistency and economy.’

‘Fitness is the adjustment of size of the several parts to their several uses and requires due regard to the general proportions of the fabric ; it arises out of dimensions. Dimension regulates the general scale of the work, so that the parts may all tell and be effective.’

‘Proportion is that agreeable harmony between the several parts of a building, which is the result of a just and regular agreement of them with each other ; the height to the width, this to the length, and each of these to the whole. Uniformity is the parity of the parts to one another ; each corresponding to its opposite, as in the human figure. The arms, feet, hands, fingers are similar to and symmetrical with one another ; so should the respective parts of a building correspond.’

‘Arrangement is the disposition in their just and proper places of all the parts of the building and the pleasing effect of the same, keeping in view its appropriate character. It is divisible into three heads, which considered together, constitute design : these by the Greeks, are named ideals : they are called ichnography, arthography, and scenography. The first is the representation on a plane of the site plan of the work, drawn by rule and compasses. The second is the elevation of the front, slightly shadowed, and shewing the forms of the intended building. The last exhibits the front and a receding side properly shadowed, the lines being drawn to their proper vanishing points.’ (Book I, Chap. II.)

‘Architecture consists of three branches, namely, building, dialling and mechanics. Building is divided into two parts (in the *Mānasāra* buildings are divided into six classes as we have seen above). The first regulates the general plan of the walls of a city and its public buildings ; the other relates to private buildings. Public buildings are for three purposes : defence, religion and the security of the public’ (compare *M.*, xxxi, 1-2, under *PRĀKĀRA*).—(*Ibid.*, Book I, Chap. III.)

On the choice of healthy situation, that is, on the selection of site and the examination of soil, directions of Vitruvius are not so elaborate as those of the *Mānasāra* (see *BHŪPARIKṢHĀ*), and differ so far as two different climates would necessarily require.

‘The choice of a healthy situation is of the first importance : it should be on high ground, neither subject to fogs nor rains : its aspects should be neither violently hot nor intensely cold, but temperate in both respects. The neighbourhood of marshy place must be avoided.’—(*Ibid.*, Book I, Chap. IV.)

**VĀSTU-KARMAṆ** (*cf.* VĀSTU-VIDYĀ)—The building-work ; the actual work of constructing temples, palaces, houses, villages, towns, forts, tanks, canals, roads, bridges, gates, drains, moats, sewers, thrones, couches, bedsteads, conveyances, ornaments and dresses, images of gods and sages.

The building-work (vāstu-karmaṇ) is distinguished from the science of building (vāstu-vidyā) :

Vatthu-vijja ghara-vatthu-arama-vatthadinam guṇa-dosa-sallak-khana vijja | Vathu-kammanti akata-vatthumhi geha-patittha pana |

(*Digha-nikāya*, I, pp. 9, 12.)

*Cf.* Śukra-nīti (iv, 3, 115, 116, 169).

See the Preface to this *Encyclopaedia*.

**VĀSTU-KIRTI**—A type of pavilion, a pavilion with forty-four pillars.

(*Matsya-Purāṇa*, Chap. CCLXX, v. 10 ; see MAṆḌAPA.)

**VĀSTU-VIDYĀ** (*see* VĀSTU-KARMAṆ)—The science dealing with the rules of construction of all kinds of architectural and sculptural objects, the science of architecture.

According to Buddhaghosha's definition, Vāstu-vidyā is ' a science, the object of which is to ascertain whether a site selected for a building is lucky or not.'—(*Dialogues of Buddha*, Part I, p. 18.)

According to *Sukrāchārya*, Vāstu-vidyā or *Śilpa-śāstra* is ' the science which deals with the rules for the construction of palaces, images, parks, houses, canals and other good works.'—(*Śukra-nīti*, iv, 3, 115, 116).

See the Harsha stone inscrip. (v. 43, *Ep. Ind.*, Vol. II, pp. 123, 128.)

**VĀHANA**—Carrying, conveying, a vehicle, a conveyance, an animal for riding or draught.

The riding animals of gods (*M.*, LX, 1), their images are described (*M.*, LX, 2-46 ; LXI, 2-151 ; LXII, 2-73 ; LXIII, 2-46 ; *see* under HAṀSA, GARUḌA, VṚISHABHA, and SṀHA.

**VĀHINI-MUKHA**—A fort, fortified city.

(*M.*, x, 40 ; *see* under NAGARA and DURGA.)

**VIKAṬA**—Formidable, a hall, a courtyard.

(Harsha stone inscrip., vv. 12, 33, *Ep. Ind.*, Vol. II, pp. 121, 126, notes 64, 123, 128.)

**VIKALPA**—A class of buildings, a kind of door, pent-roofs, a type of chamber, a kind of phallus.

A class of buildings (*M.*, xi, 104-107 : xix, 1-5 ; xxx, 175-177 ; xxxiv, 549-552, see under ĀBHĀSA).

A type of door (*M.*, xxxix, 28-35 ; see under ĀBHĀSA).

Rows of pent-roofs (*M.* xviii, 206-220).

A kind of phallus (*M.*, lii, 49 ; see under ĀBHĀSA).

Karṇe śālā sabhā madhye chhaṇḍam syāch chhandam eva tat |

Tat-tad-madhyāmsake koṣṭhe yasya syāt tad vikalpakam ||

(*Kāmikāgama*, xlv, 20 ; see also xlv, 7 ; l, 13 ;

A class of top-chambers (*Ibid.*, lv, 130, 123-127).

VIGRAHA—An idol, an image, a figure, a form, a shape.

(*M.*, liv, 180, etc.)

Dakṣiṇa-bhāgāda-kisāleyalli purātana-vigrahagala pratishṭheyam—' set up on the colonnade to the south the ancient images.' (*Ep. Carnat.*, Vol. iv, Chāmarajnar Taluq, no. 86 ; Roman Text, p. 18, line 13 ; Transl., p. 11.)

VIJAYA—A class of storeyed buildings, a type of pavilion, a hall, a kind of throne.

A class of two-storeyed buildings (*M.*, xx, 93, 10-15 ; see under PRĀSĀDA).

A class of pavilions (*M.*, xxxiv, 153 ; see under MAṆḌAPA).

A pavilion with forty-six pillars (*Matsya-Purāṇa*, Chap. cclxxx, v. 10 ; see under MAṆḌAPA.)

A type of throne (*M.*, xlv, 6 ; see under SIMHASANA).

A class of octagonal buildings :

(1) *Agni-Purāṇa* (Chap. civ, vv. 20-21 ; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 21, 23, 31-32 ; see under PRĀSĀDA)

A type of building (*Kāmikāgama*, xlv, 50, see under MĀLIKĀ).

VITAṆKA (see KAPOTA-PĀLIKĀ)—A dovetail, a moulding of that shape.

'Viṭaṅka is exactly the English "fillet" in its different acceptations : it denotes more generally also gable-edge, battlement.' Kern.—(*J.R.A.S.* N. S., Vol. vi, pp. 321, 320, note 2.)

See further references under KAPOTA and KAPOTA-PĀLIKĀ.

VITASTI (see under AṅGULA)—A measure, the span, the distance between the tips of the fully-stretched thumb and the little finger.

(1) Kanishṭhāyā vitastis tu dvā-daśaṅgula uchyate |

(*Brahmānda-Purāṇa*, Part I, 2nd anuśaṅga-pada, Chap. vii, v. 98.)

(2) Three kinds of span (*Subrahedāgama*, xxx, 20-23 ; see under AṅGULA).

VITĀNA-(KA)—A cushion, a canopy.

A canopy of pearls (Ranganath inscrip. of Sundarapandya, v. 12, *Ep. Ind.*, Vol. III, pp. 12, 15).

*Cf.* 'Torāṇa-vitāna—a canopy (in the shape) of an arch.'—(Cochin plates of Bhaskara Ravivarman, lines 10-11, *Ep. Ind.*, Vol. III, pp. 68, 69.)

VIDATHA—A house, a holding, an asylum, a smaller or secular assembly, a rich or royal establishment like palaces, audience hall for women, Sabhā being for men's assembly.

(*R.-V.*, x, 85, 26, 27, *A.-V.*, vii, 38, 4, *Maitra. Sam.* iv, 7, 4, *cf. R.-V.*, ii, 1, 4, 27, 12, 17, iii, 38, 5, 6, v, 63, 2, vii, 66, 10, viii, 39, 1, x, 12, 7, *A.-V.*, i, 13, 4, xvii, 1, 15.)

VIDYĀDHARA—A class of demi-gods, a kind of fairy.

Their images are measured according to the nine-tāla (*see* details under TĀLA-MĀNA).—(*M.*, LVIII, 6, other details : 7-14.)

VIDHĀNA—An entablature.

(*M.*, XVI, 20, 43, 203 ; *see* under PRĀSTARA.)

VINIYOGA-MANḌAPA—A refectory, a type of pavilion built in the third, fourth or fifth court of the compound of a temple, where refectations or meals are prepared.

(*M.*, XXXII, 8 ; *see* under MAṆḌAPA.)

VIPULĀṆKA—A type of storeyed building, a class of six-storeyed buildings.

(*M.*, XXIV, 19 ; *see* under PRĀSĀDA.)

VIPULĀKṚITIKA—A type of storeyed building, a class of six-storeyed buildings.

(*M.*, XXIV, 52 ; *see* under PRĀSĀDA.)

VIPULA-BHOGA—A site plan of 676 square plots.

(*M.*, VII, 37-38 ; *see* PADA-VINYĀSA.)

VIPRA-KĀNTA—A site plan in which the whole area is divided into 729 equal squares.

(*M.*, VIII, 39-40 ; *see* under PADA-VINYĀSA.)

VIPRA-GARBHA—A site plan in which the whole area is divided into 576 equal squares.

(*M.*, VII, 33-34 ; *see* under PADA-VINYĀSA.)

VIPRA-BHAKTI—A site plan in which the whole area is divided into 841 equal squares.

(*M.*, VII, 43-44 ; *see* under PADA-VINYĀSA.)

VIMĀNA—Etymologically an object measured (from root mā) or prepared or made in various ways ; hence a well-measured conveyance, a balloon, a heavenly car, a temple, building in general, the palace of an emperor, a tower surmounting the sanctuary (garbhagriha) which is made in the centre of the temple.

‘ A car or chariot (of the gods) sometimes serving as seat or throne, sometimes self-moving and carrying its occupants through the skies ; other descriptions make the Vimāna more like a house or palace and one kind is said to be seven storeys high ; that of Rāvaṇa was called Pushpaka (vimāna) ; any car or vehicle ; a horse ; a palace, the palace of an emperor or supreme monarch.’

Cf. Rajato-vimānaṁ sapta-chakraṁ ratham । (*Pet. Dict.*)

(1) *Mānasāra* (Chap. xviii, 1-422), named Vimāna :

Vimānas are buildings of one to twelve storeys and are used as residences of gods and men, i.e., the term implies both temples and residential buildings :

Taitilānām dvi-jātīnām varṇānām vāsa-yogyakam ।

Eka-bhūmi-vimānādi ravi-bhūmi avasānakam ।

(*Ibid.*, 2, 3.)

That the term ‘ vimāna ’ implies not temples alone but buildings in general, is clear from the expression ‘ vimāna-veśman,’ ‘ vimāna-sadman,’ ‘ deva-vimāna ’ (god’s buildings), etc., which are frequently mentioned (e.g., *M.*, xii, 214).

Further, the general features of all kinds of buildings are described in the chapter (xviii) which is named Vimāna :

The general comparative measures of different storeys are given (*ibid.*, 12-91).

The three styles, namely, Nāgara, Drāviḍa, and Vesara are described (lines 92-113).

These styles are distinguished generally by the shapes of the stūpis (domes), which are next described (lines 114-171).

A special account of the lūpās (pent-roofs) which are apparently very characteristic features of all buildings is given (lines 171-278).

Mukha-bhadras (front porticoes or tabernacles) are also characteristic features of all buildings, large or small, and they are described in detail (279 f.).

Spires (stūpi-kīlas) are also described (lines 144-171, 354-417).

Vimānasya tu sarveśhām prajāpatyena mānayet ।

(*M.*, ii, 55 ; see also iii, 5-6 ; xiv, 426, etc.)

Vimāne tri-grihe vāpi maṇḍapādīni vāstuke |

Grāmādinām cha sarvashām mānāyēn māna-sūtrakam |

(M., VI, 101-102.)

Purusham deva-vimānasya sthāpayet purusheshtakam |

(M., XII, 214.)

A tower :

Tad-ūrdhve cha vimānam cha vedika-vedikāntakam |

(M., XXII, 57.)

Maṇḍape dve vimānam syād ekaṁ vā dvi-talam tu vā |

(M., XXXIV, 221.)

(2) Kechid vadanti devānām mānushāṇām vimānake |

Vistāre sapta-shaṭ-pañcha-chatus-tryāṁśe'dhikam tribhū |

(Mayamāta, Chap. xx, v. 8.)

(3) Rāmāyāṇa, I, 5, 16 :

Sarva-ratna-samākīrṇām vimāna-griha-śobhitām |

Commentary : Vimāna-griham sapta bhūmi-griham (a seven-storeyed building), and quotes the following from Nighaṇṭu :

Vimāno'strī deva-yāne (god's conveyance) sapta-bhumau cha sadmani (seven-storeyed building).

See also the following :

II, 88, 5 : Prāsādāgra-vimāneshu valabhīshu cha sarvadā |

(See further context under PRĀSĀDA).

II, 2, 16 ; II, 15, 48 ; II, 33, 3 ; II, 57, 18 ; II, 59, 12 ; II, 88, 5 ;  
III, 32, 4 ; IV, 50, 30 ; V, 2, 53 ; V, 4, 27 ; V, 6, 1 ; V, 10, 34 ; V,  
12, 14 ; V, 12, 25 ; V, 13, 1 ; V, 53, 19 ; V, 54, 23 ; VI, 24, 10 ; VI,  
39, 21 ; VI, 67, 82 ; VI, 75, 23 ; VI, 75, 40 ; VII, 101, 14.

(4) Mahābhārata, I, 185, 23 :

Nānā-prakāreṣhu vimāneshu |

(5) Commentary quotes Medinī (N. 121) : Vimānam vyoma-yāne sapta-bhūmi-grihe'pi chet |

See the following Kōshas also :

(6) Hema-chandra (Abhidhāna-chintāmaṇi, 89, 190 ; 3, 417).

(7) Halāyudha (I, 83, etc.).

(8) Amarakōsha (I, 1, 1, 4, 3, 36, Pet. Dict.).

The essential parts :

(9) Shaḍ-varga-sahitam yat tu garbha-griha-samanvitam |

Āndhārāndhāri-hāroka-khaṇḍa-harmya viśeshitam ||

Kūṭa-śālānvitam yat tu pañjaraiś cha samanvitam |

Tilaka-kshudra-nāsi-yukta-toraṇaiś cha samanvitam |

Brahma-dvāra-putākādyair aṅgair yuktaṁ vimānakam ||

(Kārikāgama, I, 91-93.)

A type of quadrangular building :

(10) *Agni-Purāṇa*, (Chap. CIV, vv. 14-15 ; see under PRĀSĀDA).

(11) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 24-25 ; see under PRĀSĀDA).

(12) ' There is one other peculiarity common to both Jain and Hindu architecture in the north of India that requires notice. It is the form of the towers or spires called sikras or vimānas which invariably surmount the cell in which the images are placed.' Fergusson.—(*Hist. of Ind. and East. Architecture*, p. 221.)

(13) A car of the gods (Aśoka's Rock Edicts, no. iv, *Ep. Ind.*, Vol. II, pp. 451, 467).

(14) A shrine and dome (Ranganatha inscrip. of Sundarapandya. vv. 3, 8, 10, 22, 30, *Ep. Ind.*, Vol. III pp. 11-17).

(15) A shrine (Yenamadala inscrip. of Ganapamba, v. 17, *Ep. Ind.*, Vol. III, pp. 99, 102).

(16) ' Having perceived that the central shrine of the god of the Tiruviḍaikali (temple) . . . which formerly consisted of layers of bricks, had become old and cracked,—the lord of Miḷaḍu . . . pulled down the temple, rebuilt the central shrine and the maṇḍapa of granite, placed on the shrine fine solid pitchers (dome) of gold, built a surrounding wall and a maṇḍapa, in front, and gave a canopy of pearls.'—(Fourteen inscrip. at Tirukkovalur, no. K, lines 5-7, *Ep. Ind.*, Vol. VII, pp. 145, 146, 147.)

(17) Prāsāda-mālābhīr alamkṛitām dharām vidāryyaiva samutthitām !

Vimāna-mālā-sadriśāni yatra gṛihāni pūrṇṇendu-karāmalāni ||

' Here, cleaving asunder the earth, there rise up houses which are decorated with successions of storeys, which are like rows of aerial chariots (and) which are as pure as the rays of the full moon.'—(Mandasor stone inscrip. of Kumaragupta, line 7, *C. I. I.*, Vol. III, F. G. I., no. 18, pp. 81, 85.)

(18) ' . . . a copy of a stone inscription which existed before the sacred vimāna (i.e. the central shrine) had been pulled down.'—(Inscrip. of Vanavidyadhara, no. 47, line 1, *H. S. I. I.*, Vol. III, p. 100.)

(19) ' Vimarasa-nāyakkān caused to be built vimānas with all the necessary characteristics for the god and goddesses at Ponnudukki.'—(*Ep. Carnat.*, Vol. XII, Tumkur Taluq, no. 19 ; Transl., p. 6, para. 2.)

(20) ' The Vimāna (of the temple of Parameśvara at Gudimallam) has the so-called gaja-prishthākṛiti shape (i.e., like the back of an elephant, see plate c-b, facing page 104, *Ind. Ant.*, Vol. XL) ; but a close study of the plan and sections, given in the accompanying plate (referred to above), warrant the conclusion that the architect had distinctly in view the shape of the liṅga (phallus of Śiva) ; and hence the vimāna might better be styled a liṅgākṛiti-vimāna.'

' The gajapriṣthākṛiti-vimāna is found only in Śaiva temples, e.g. the Dharinśvara temple at Manimaṅgalam, the Śaiva temples at Suman-



galam. Peṇṇagaram, Bhāra-dvajāśrama near Arcot, Tiruppulivanam Konnūr (near Madras), vaḍa Tirumullaivāyil, etc.'—(Five Bana inscrip. at Gudimallam, *Ind. Ant.*, Vol. XL, p. 104, line 6, note 2.)

(21) Nirmiṣi prākāra-svarṇa-kalaśa-yukta-gopura-vimāna-sahitam |

'Created the Chāmarājēsvara temple together with its precincts, gopura adorned with golden kalaśas, and tower.'—(*Ep. Carnat.*, Vol. IV, Chāmarājnagar Taluq, no. 86; Roman Text, p. 18, lines 8-9 f.; Transl., p. 11.)

(22) 'Vimāna—The tower of a shrine.' Rca.—(Chalukyan Architecture, *Arch. Surv.*, New. Imp. Series, Vol. XXI, p. 40.)

### VIMĀNA-CHCHHANDAKA—A class of buildings.

A type of building which is 21 cubits wide, has seven storeys and latticed windows :

(1) *Bṛihat-saṁhitā* (Chap. LVI, 22, *J.R.A.S.*, N. S., Vol. VI; p. 319; see under PRĀSĀDA).

(2) *Mat.ya-Purāṇa* (Chap. CCLXIX, vv. 28, 32, 33, 47, 53; see under PRĀSĀDA).

(3) *Bhaviṣṭya-Purāṇa* (Chap. CXXX, v. 29; see under PRĀSĀDA).

VIVĀHA-MANḌAPA (see MANḌAPA)—A pavilion erected for the wedding ceremonies.

(*Skanda-Purāṇa*, Māheśvara-khaṇḍa-prathama, Chap. XXIV, vv. 1-67.)

VIVṚITA—A type of storeyed building, a class of the nine-storeyed buildings.

(*M.*, XXVII, 20-22; see under PRĀSĀDA.)

VIVEŚA—A site plan of 625 square plots.

(*M.*, VII, 35-36; see PADA-VINYĀSA.)

VIŚ—A fixed abode.

(*R.-V.*, X, 91, 2.)

VIŚĀLA-(KA)—Breadth, an architect, a type of building, a class of pavilions, a type of hall, a site plan of 529 square plots.

Compare *Mānasāra* (Chapter VII, 31-32; XV, 14; LXVIII, 13; see PADA-VINYĀSA.)

A type of rectangular building :

(1) *Agni-Purāṇa* (Chap. CIV, vv. 16-17; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 21-22, 26-27; see under PRĀSĀDA).

A pavilion with 100 columns (*Suprabhedāgama*, XXXI, 104; see under MANḌAPA).

A class of buildings (*Kāmikāgama*, XLV, 41; see under MĀLIKĀ).

A hall with thirty-eight pillars (*Matsya-Purāṇa*, Chap. CCLXX, v. 11; see under MANḌAPA).

VIŚĀLĀKSHA—A site plan of 784 square plots.

(*M.*, VII, 41-42, see under PADA-VINYĀSA.)

VIŚVA-KĀNTA—A type of storeyed building.

A class of five-storeyed buildings (*M.*, XXXIII, 16-18; see under PRĀSĀDA).

A class of nine-storeyed buildings (*M.*, XXVII, 27-33; see under PRĀSĀDA).

VIŚVA-VIDYĀLAYA—A university, a place of learning of universal subjects in Arts and Sciences, comprising various college buildings, prayer halls, residences, etc.

The famous universities were at Taxila, Valabhi, Vikramaśilā, Odantapuri, Jagaddala, Somapuri, Vikramapuri, and Nalanda. Compare big colleges at Bodh-Gaya, Sanchi, Barhut, Śrāvasti, Kauśambi, Sarnath, Mathura, Nāsika, Amaravati, Nāgārjunikuṇḍa, Jagayyapeta, Kanchipura, Kannipattana and Madura. For structural details, see NALANDA.—Writer's articles on *Universities during Hindu Period* (University Studies, Allahabad, 1936, the *Twentieth Century*, July, 1935, the *Science and Culture*, December, 1935, *Modern Review*, August, 1935.)

VIŚVEŚA-SĀRA—A site plan in which the whole area is divided into 900 equal squares.

(*M.*, VII, 45-46, see under PADA-VINYĀSA.)

VISHĀṆA-(KA)—The horn, the tusk, the wing of a building.

Vishāṇaka-samāyukto nandanaḥ sa udāhṛitah |

'That (prāsāda) is called nandana which is furnished with a vishāṇaka (wing).'—(*Matsya-Purāṇa*, Chap. CCLXX, v. 33.)

VISHKAMBHA—The diameter of a circle, the length or width of an object, a post, a pillar, the prop or beam, the bolt or bar of a door.

(1) Harmya-pādasya vishkambhaṁ samam mañjūsha-viṣṭītiḥ |

'The length of the vault is equal to the width at the foot of the mansion.'—(*M.*, XII, 29.)

(2) Dvārasyārdhena vishkambhaḥ—'half of the door gives the width'.  
(*Bṛihat-saṁhitā*, LIII, 24.)

Sāshṭāmśo vishkambho dvārasya dvi-guṇa uchhrāyaḥ |

(*Ibid.*, v. 25; see *J. R. A. S.*, N. S., Vol. VI, p. 284, note 3.)

(3) Tehsām āyāma-vishkambhāḥ sanniveśāntarāṇi cha |

Kṛitrimānām cha durgāṇām vishkambhāyāmam eva cha |

Yojanād arddha-vishkambham ashta-bhāgād dhikāyatam ||

(*Brahmaṇḍa-Purāṇa*, Part 1, 2nd anushaṅga-pāda, Chap. VII, vv. 94, 106.)

- (4) Chatur-daṇḍāvakṛiṣṭaṁ parikhāyāḥ shaḍ-daṇḍochchhritāṁ avar-  
uddhaṁ tad-dvi-guṇa-vishkambhaṁ khātād vapraṁ kārayet ।  
Vaprasopari prākāraṁ vishkambha-dvi-guṇotsedham ।  
Antarcshu dvi-hasta-vishkambhaṁ pārśve chaturguṇāyāmam  
anuprākāraṁ aṣṭa-hastāyataṁ deva-pathaṁ kārayet ।

(*Kauṣīlyā-Artha-sāstra*, Chap. xxiv,  
paras. 3, 5, 10, pp. 51-52.)

**VISHṆU-KĀNTA**—A class of storeyed buildings, a type of column, a type of gate-house, a kind of phallus, a jewel.

A class of four-storeyed buildings (*M.*, xxii, 3-12 ; see under PRĀSĀDA).

A jewel (*M.*, xii, 90, etc.).

An octagonal column with eight minor pillars (*M.*, xv, 20, 245, see under STAMBHA).

A gate-house with sixteen towers (*M.*, xxxiii 557 ; see under GOPURA).

A kind of phallus (*M.*, lii, 154 ; see under LIṄGA).

**VISHṆU-GARBHA**—(See under GARBHA-NYĀSA)—A kind of foundation prescribed for the Vishṇu temples.

(*M.*, xi, 141.)

**VISTĀRA**—Breadth, length (see under MĀNA).

**VIHĀRA**—Originally monasteries for Buddhist monks and nuns ; later at the time of Nalanda University, the residential quarters for the professors (compare Saṅgārāma), a dwelling, a habitation for gods and for monks, a temple, a convent (W. Geiger, *Mahāvamsā*, p. 297) ; a group of apartments for a community of monks, a Saṅgārāma or monastery in Ceylon and Nepal used to designate 'not only a cell but also any monastic establishment (Fergusson, *Ind. and East. Arch.*, 1910, I, p. 170). A Buddhist monastery, a convent, a temple. With the Buddhists and Jains was 'a hall where the monks met and walked about ; afterwards these halls came to be used as temples and sometimes became the centres of monastic establishments.'

- (1) Prāg-Gaṅgeśvara-sannidhau . . . chakre-dārumayaṁ vihāraṁ  
amalaṁ Śrī-Lokaṇāthāspadam ।

'Made a spotless vihāra'of wood, an abode for the Lord of the World, in the vicinity of the Gaṅgeśvara (temple).—(Ariḡom Śārada inscrip., v. 2, *Ep. Ind.*, Vol. ix, p. 302.)

- (2) Vihāro nava-khaṇḍa-maṇḍala-mahī-hāraḥ kṛito'yaṁ tayā tāriṇyā  
vasudhārayā nanu vapur vibhraṇyālamkṛitah ।

Yam dṛiṣṭvā praticitra-śilpa-rachanā-chāturyya-simāśrayam gīrvāṇaiḥ  
sudṛiṣam cha vismayam agād viśvakarmāpi saḥ ॥

‘This vihāra, an ornament to the earth, the round of which consists of nine segments, was made by her, and decorated as it were by Vasudhārā herself in the shape of Tārīṇī, and even the Creator himself was taken with wonder when he saw it accomplished with the highest skill in the applying of wonderful arts and looking handsome (with the images of) gods.’

(Sarnath inscrip. of Kumaradevi, v. 21, *Ep. Ind.*, Vol. IX, pp. 325, 327.)

(3) ‘Throughout this work the term vihāra is applied only to monasteries, the abodes of monks or hermits. It was not, however, used in that restricted sense only, in former times, though it has been so by all modern writers. Hiouen Tshang, for instance, calls the great tower at Buddh-Gaya a vihāra, and describes similar towers at Nalanda, 200 and 300 feet high, as vihāras. The Mahawanso also applies the term indiscriminately to temples of a certain class, and to residences. My *impression* is that all buildings designed in storeys were called vihāras (!), whether used for the abode of priests or to enshrine relics or images. The name was used to distinguish them from stupas or towers, which were relic shrines, or erected as memorials of places or events, and never were residences or simulated to be such, or contained images, till the last gasp of the style, as at Kholvi. At present this is only a theory.’

(This is a false *impression*; it is not substantiated by literary or archaeological evidences.)

Like the chaityas, ‘these (vihāras or monasteries) resemble very closely corresponding institutions among Christians. In the earlier ages they accompanied, but were detached from the chaityas or churches. In later times they were furnished with chapels and altars in which the service could be performed independently of the chaitya halls, which may or may not be found in their proximity.’ Fergusson.—(*Hist. of Ind. and East. Arch.*, pp. 130, note 1, 51.)

For the photographic views and architectural details of the existing vihāras, see Fergusson :

Diagram explanatory of the arrangement of a Buddhsit vihāra of four storeys in height (p. 134, fig. 67, 66).

*Ajunta-Vihāras* (p. 154-155, fig. 83, 84, 85).

Plan of the great Vihāra at Bagh (p. 160, fig. 87).

Plan of Dehrwarra at Ellora (p. 163, fig. 88).

Plan of Monastery at Jamalgi (p. 171, fig. 92).

Plan of Monastery at Takht-i-Bahi (p. 171, fig. 93).

Plan of Ionic Monastery at Sha Dehri (p. 176, fig. 96).

(4) See Buddhist Cave Temples (*Arch. Surv.*, New Imp. Series, Vol. iv, Plate xxvii).

**VIHṚITA**—An architectural ornament, a moulding, a moulding of the upper part of a column.

(*M.*, xv, 78 ; see the list of mouldings under STĀMBHA.)

**VINĀ**—A flute, a lute, a carving on the chariot.

(*M.*, XLII, 163, etc.)

**VITHI(-I)**—A road, a way, a street, a market place, a stall, a shop, a terrace.

Madhya-rathyāvṛitā vithī samam evaṁ vidhiyate ।  
 Mukhyā vithī dvi-pakshā syād gṛiha-tāraṁ tri-daṇḍakam ।  
 Evaṁ bāhya-vithī syād antar-vithir ihochyate ।  
 Paksha-yuktā tu vithī syāt paksha hinarṁ tu mārgakam ।  
 Tri-chatush-pañcha-daṇḍaṁ vā vithināṁ vistṛitir bhavet ।  
 Shaṭ-saptāshṭa-daṇḍaṁ vā nanda-paṅktiśa-bhānuṁ vā ।  
 Evaṁ tu svastika-vithī lāṅgalākāravat bhavet ।  
 Antar-vithī chaika-pakshā bāhya-vithī dvi-pakshakā ।  
 Paritas tu mahā-vithir vither eshā dvi-pakshayuk ।  
 Vithināṁ pārśvayor deśe vithikādyair alaṅkṛitam ।

(*M.*, ix, 101, 104, 191, 196, 199, 200, 338, 396, 477, 529 ; see also 99, 136, 184-187, 197, 201, 203, 206, 324, 339, 345, 347, 352, 426, 431, 463, 519.)

Pāda-daṇḍaṁ samārabhya pāda-pāda-vivardhitam ।  
 Syād ekā-daśa-daṇḍāntaṁ vithi-mānam ihāgame ॥  
 Mārga-māṇaṁ tu tāvat syān na dvāraṁ vithikāgrake ।

(*Kāmikāgama*, xxv, 4, 5.)

**VITHIKĀ**—A gallery, a picture gallery, a road, a narrow street, a lane.

(1) Śālāto yas tṛitīyāṁśas tena kāryā tu vithikā ।

(*Kīrapākhya-Tantra* ; see *Bṛihat-saṁhitā* below.)

(2) Śālā-tri-bhāga-tulyā cha kartavyā vithikā bahiḥ ।

(*Viśvaka* ; see *Bṛihat-saṁhitā*, below.)

(3) Śālā-tri-bhāga-tulyā kartavyā vithikā bahir-bhavanāt ।

'Outside the dwelling one should make a gallery, being in width a third part of the hall.'—(*Bṛihat-saṁhitā*, LIII, 20, *J.R.A.S.*, N. S., Vol. vi, p. 283, note 2.)

(4) Asmāt tu chatū-rathyāgrād āvṛitā vithikā tataḥ ।

Tat-paiśācha-pade deśe vāvṛitā vithikā bhavet ।

Antaś-chatush-padaṁ madhye vīthikāgraṁ chatur-dīpī |  
Vīthinaṁ pārśvayor deśe vīthikādyair alaṅkṛitam |

(*M.*, IX, 337, 434, 478, 529 ; see also 323, 334-336.)

VIRA-KAṆṬHA (*see* VIRA-GALA)—A warrior's neck, a part of the column, a monument.

(*Suprabhedāgama*, XXXI, 59 ; see under STAMBHA.)

VIRA-KARṆA—A warrior's ear, a part of the column, a monument.

(*M.*, XV, 49, 81, 142.)

VIRA-KĀṆḌA—An upper part of the column.

Tri-bhāgo maulikotsedhaḥ vīra-kāṅḍād upary-adhaḥ ||

Vīra-kāṅḍāvadhi kshepya tad-ūrdhve nakra-paṭṭikā ||

(*Kāṁikāgama*, LV, 62, 111.)

VIRA-GALĀ (*see* BIRA-GALA)—A warrior's neck, a monument, a memorial.

A monumental stone (*Ind. Ant.*, Vol. IX, p. 96, c. 2, line 10).

A stone erected in memory of a fallen warrior (*Chalukyan Architecture, Arch. Surv.*, New. Imp. Series, Vol. XXI, p. 40).

VIRA-PAṬṬA—The front plate, the diadem, of heroes forming part of a crown.

(1) ' (These pearls) were strung on two strings (vaḍam) on both sides of the front plate (vīra-paṭṭa), literally the diadem of heroes, " this ornament forms part of a crown," Vol. II, p. 242, note 1.)'—(Inscrip. of Rajendra Chola, no. 8, para. 25, *H. S. I. I.*, Vol. II, p. 90.)

(2) ' Given to the image of Ardha-nārīśvara) one front plate (vīra-paṭṭa), weighing,—inclusive of sixteen neruñji (a kind of thistle), flowers made of gold,—four karanju and three mañjādi, and worth three kāśu.'

' On (it) were strung one hundred and eleven pearls, viz., old pearls, round pearls, roundish pearls, polished pearls, small pearls, ambumudut crude pearls, śappatti and śakkattu.'—(Inscrip. of Rājraja, no. 39, para. 9, *H.S.I.I.*, Vol. II, p. 166.)

(3) ' One front plate (vīra-paṭṭa), laid (round the head of the image of Kṣhetrapāla and consisting of) seven mañjādi of gold.'—(Inscrip. of Rājendra Chola, no. 43, para. 5, *H. S. I. I.*, Vol. II, p. 173.)

(4) ' One diadem (vīra-paṭṭa), made for the lord of the Śri-Rājarajesvara temple . . . '—(Inscrip. of Rājraja, no. 59, para. 22, *H. S. I. I.* Vol. II, p. 242.)

VIRA-ŚĀSANA (*see* BIRA-GALA and VIRA-GALA)—A monument, a memorial.

**VIRĀSANA**—A throne, a type of pavilion.

A kind of coronation throne (*M.*, XLV, 41 ; see under ŚIMHĀSANA).

A pavilion with twenty columns (*Suprabhedāgama*, XXXI, 102 ; see under MAṆḌAPA).

**VṚITA(-TTA)**—A circular object, a kind of mound column, a type of building, a class of pavilions.

Dvā-triṁśatā tu madhye pralinako vṛitta iti vṛittāḥ ।

(*Bṛihat-samhitā*, LIII, 28 ; see under STAMBHA.)

A type of building which is circular in shape, has one storey and one cupola. According to Kern's interpretation it is dark in the interior (añjanarūpa, Varāha-mihira ; sandhyākāra, Kāśyapa) :

(1) *Bṛihat-samhitā* (Chap. LVI, 28, *J. R. A. S.*, N. S., Vol. VI, p. 320, note 1, see under PRĀSĀDA.)

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 29, 49, 53 ; see under PRĀSĀDA.)

(3) *Bhaviṣya-Purāṇa* (Chap. CXXX, v. 30, see under PRĀSĀDA.)

A type of pavilion (maṇḍapa) :

(4) *Suprabhedāgama* (Chap. XXX, 100, 102 where it is called Jayabhadra ; see under JAYA-BHADRA).

(5) Cf. ' Within this and rising from a ledging of cut stone 4 feet high and 3 broad, stand the walls of the temple, a perfect circle about 20 feet high and 2 thick, with a handsome cornice of brick encircling the top. The whole appears to have been coated with five pilaster small parts of which still adhere. I examined closely but could not discover the smallest appearance of its ever having had a roof.' Lieut. Fagan.—(An Account of the Ruins of Topary, *Ceylon Govt. Gazette*, Aug., 1. 1820, *Ind. Ant.*, Vol. XXXVIII, p. 110, c. 1, para 1, line 24.)

**VṚIDDHA**—A finial, a spire, the top-part of a building.

(*M.*, XVII, 126 ; see under ŚIKHĀ.)

**VṚISHA(-BHA)**—The bull, the riding animal of a god, a type of building.

The riding animal of Śiva, description of his image (*M.*, LXII, 2-7) see under VĀHANA.)

A type of building which has one storey, one turret (śṛiṅga), is round everywhere and twelve cubits wide

(1) *Bṛihat-samhitā* (Chap. LVI, 26, *J. R. A. S.*, N. S., Vol. VI, p. 319 ; see under PRĀSĀDA).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 30, 36, 44, 45, 53 ; see under PRĀSĀDA).

(3) *Bhavishya-Purāna* (Chap. cxxx, v. 33 ; see under PRĀSĀDA).

A type of oval building :

(1) *Agni-Purāna* (Chap. civ, vv. 19-20 ; see under PRĀSĀDA.)

(2) *Garuḍa-Purāna* (Chap. xlvii, vv. 29-30 ; see under PRĀSĀDA.)

VRISHABHĀLAYA—A detached building near the gate of a temple where the bull (nandin) is installed.

Prākāra-dvāra-sarveshām kalpayed vṛishabhālayam |

Vṛishabhasyopari-bhāge tu kalpayed bali-pīṭhakam |

(*M.*, xxxii, 98-99.)

VRISHA-MANḌAPA—A pavilion where the nandin or bull is installed.

*Suprabhedāgama* (xxxii, 96, 98 ; see under MANḌAPA) and compare :

Vṛishasya maṇḍapam tatra chatur-dvāra-samāyutam |

(*Ibid.*, xxxi, 133.)

VETRA—The cane, a stick, an architectural ornament, a moulding.

A moulding of the diadem (makuṭa) (*M.*, xlix, 99-100).

A moulding of the bedstead (*M.*, xlv, 41.)

An ornament of the throne (*M.*, xlv, 162, 188 ; see also *M.*, vii, 241.)

VEDI-(KĀ)—Originally a hall for reading the Vedas in, an altar, a stand, a basis, a pedestal, a bench, a kind of covered verandah or balcony in a courtyard, a moulding, 'bands or string-courses carved with rail-pattern.' The platform of a stage (Bharata's *Nāṭya-śāstra* II, 102, see details under NĀṬYA-GRĪHA(VISMA), terrace, altar, rail, terrace with balustrade (*Dīpavaṅśa* II, p. 181-183, Oldenburg). Compare *Pāshāṇavedi* and *Silāvedī* (*Mahāvamśa*, 36, 52, 103), *Muddhavedi* and *Pāda-vedī* (*ibid.*, 35, 2.) (W. Geiger, *Mahāvamśa*, pp. 296-297.)

(1) Sālāntam vedikordhve tu yuddhārtham kalpayet sudhīḥ |

(*M.*, ix 361.)

A moulding of the column :

Griva-tuṅgam | idhā bhajyam ekāmśe vedikonnatam |

(*M.*, xv, 105.)

'The quadrangular spot in the courtyard of a temple or palace (Apte). That portion of a building which is covered by the walls (*M.*, xix, 25).

Ūrdhve pādodaye bandham bhāgam ekāmśa-vedikam |

(*M.*, xix, 99.)

The portion above the neck-part of a building (*M.*, xxii, 50, 54, 57, etc.).



The altar or dais (*M.*, LXX, 29, 35, etc.).

Kuryāt sarvaṃ vedikāṃ bhadra-yuktam |

(*M.*, XIX, 180.)

(2) Tri-chūli vaiśya-śūdrāṇāṃ pañcha-sapta mahī-bhṛitām |

Brāhmaṇāṇāṃ tathaiva syur ekādaśa tu vedikāḥ ||

It should be noticed that 'vedikā' and 'chūli' refer to the same object.—(*Kāmikāgama*, xxxv, 60.)

The basement :

Prāsāda-bhūṣaṇaṃ vakshye śrūyatām dvija-sattamāḥ |

Syāt pāda-prastaraṃ grivā varge mūle tu vedikā ||

(*Ibid*, LV, 1.)

(3) Veditkeyaṃ tu sāmānyā kuṭṭimānāṃ prakīrtitā |

Pratikramasya chotsedhe chatur-vimśati bhājite ||

Vedikā-prastara-samaṃ shaḍ-amśikṛitya bhāgaśaḥ |

Ekāmśaṃ prati-paṭṭam syād amśābhyāṃ antaribhavet ||

(*Vāstu-vidyā*, ed. Śāstri, IX, 19, 23.)

(4) Kāñchanair bahubhiḥ stambhair vedikābhiḥ cha śobhitaḥ |

(*Rāmāyaṇa*, VI, 3, 18, etc.)

(5) (Nalinim) . . . mahā-maṇi-śilā-paṭṭa-baddha-paryanta-vedikāṃ |

(*Mahābhārata*, II, 3, 32, etc.)

(6) Athātaḥ saṃpravakshyāmi pratishṭhā-vidhim uttamam |

Kuṇḍa-maṇḍapa-vedināṃ pramāṇaṃ cha yathā-kramam ||

Prāsādasyottare vāpi pūrve vā maṇḍapo bhavet |

Hastān shoḍaśa kurvīta daśa dvā-daśa vā punaḥ ||

Madhye-vedikayā yuktaḥ parikshiptaḥ samantataḥ |

Pañcha-saptāpi chaturaḥ karān kurvīta vedikāṃ ||

(*Matsya-Purāṇa*, Chap. CCLXIV, vv. 1, 13, 14 ;

see also Chap. CCLXX, vv. 13, 18.)

From the position and measures given here to the vedi or vedikā, it appears to imply some platform other than the pedestal or throne of the idol.

(7) Tad-ūrdhvaṃ tu bhaved vedī sakaṅṭhā mānasārakam ||

Urddhvaṃ cha vedikā-mānāt kalaśaṃ parikalpayet ||

(*Agni-Purāṇa*, Chap. XLII, vv. 17, 18.)

(8) Maṇḍapaṃ cha su-vistīrṇaṃ vedikābhir manoramam ||

Tan-madhye maṇḍapam kṛtvā vedīm tatra su-nirmalām ||

(*Skanda-Purāṇa*, Māheśvara-khaṇḍa-prathama,

Chap. xxiv, v. 2, *Vaiṣṇava-khaṇḍa-*

*dvītiya*, Chap. xxv, v. 26.)

(9) See specimens of Jaina sculptures from Mathura (Plate III, *Ep. Ind.*, Vol. II, p. 319, last para.).

(10) Hathī cha puvādo hathinath cha uparimā hethimā cha veyikā—  
'the elephants and, before the elephants, the rail-mouldings above and below.'—(Karle inscrip. nos. 3, 17, 18, *Ep. Ind.*, Vol. VII, pp. 51, 63-64.)

(11) Chānyāny ābhānti dirggha-valabhiṃ sa-vedikām |

'And other long buildings on the roofs of the houses, with arbours in them, are beautiful.'—(Mandasor stone inscrip. of Kumaragupta, lines 6-7, *C. I. I.*, Vol. III, F. G. I., no. 18, pp. 81, 85.)

(12) Eshā bhāti kulāchalaiḥ parivṛitā prāleya-saṃsarggibhir vvedi  
meru-śileva kāñchana-mayī devasya viśrāma-bhūḥ |

Suohraiḥ prānta-vikāsi-pankaja-dalair ity-ākalayya svayaṃ rau-  
pyaṃ padmān achikarat paśupateḥ pūjārtham aty-ujjvalam ||

'Thinking that this throne on which the deity rests, golden-like moun-  
meru, was surrounded by the imperishable (seven) primeval mountains  
covered by snow, (the king) himself caused an exceedingly resplendent  
silver lotus with brilliant wide opened petals to be made for the worship of  
Paśupati.'

'(The poet tries to prove that the lotus resembles the shrine of Paśu-  
pati. As the latter is of gold, so the centre also of the lotus is golden, and  
as the temple is surrounded by snowy mountains, so the petals of the lotus  
are made of silver).'—(Inscrip. from Nepal, no. 15, of Yaya-deva, v. 25, *Ind.*  
*Ant.*, Vol. IX, pp. 179, 182.)

(13) 'Vedi (bedi)—Hall for reading the Vedas in.'—(Vincent-Smith,  
Gloss. to General Cunningham's *Arch. Surv. Reports.*)

(14) See Cunningham, *Arch. Surv. Reports* (Vol. XVII, Plate XXXI, Buddhist  
railings).

(15) 'Veyikā, which, as well as Vedikā and vetikā in other Buddhist  
inscriptions, stands for Sanskrit vedikā, does not mean altar, dais, etc.,  
but hands or string-courses carved with rail-pattern : compare *Mahāvastu*,  
228.' Dr. Burgess.—(Karle inscrip. no. 3, *Arch. Surv.*, New Imp. Series,  
Vol. IV, p. 90, note 3 ; see also nos. 15, 16 : Kshatrapa inscrip. no. 3.)

(16) 'These (rails, ? vedi) have recently been discovered to be one of  
the most important features of Buddhist architecture. Generally they are  
found surrounding topes, but they are also represented as enclosing sacred  
trees, temples and pillars, and other objects.' Fergusson.—(*Hist. of Ind.*  
*and East. Arch.*, p. 50.)

See the photographic views and architectural details of the following  
Rails in Fergusson :

Buddh Gaya Rail (p. 86, figs. 25, 26).

Rail at Bharhut (p. 88, fig. 27).

Rail at Sānchi (p. 92-93, figs. 29, 30, 31).

Rail in Cuntamiputra Cave (p. 94, fig. 32).

VEDIKĀ-VĀTAPĀNA—A balustrade.

(*S. B. E.*, xx, p. 104, 4, 3 ; p. 162, 4, 4 ;  
W. Geiger, *Mahāvamsā*, p. 297.)

VEDI-KĀNTA-(KA)—A type of storeyed building, a class of four-storeyed buildings.

(*M.*, xxii, 58-59 ; see under PRĀSĀDA.)

VEDI-BANDHA—The pedestal, the base, the basement.

Prāsādu nirgatau kāryau kapotau garbha-mānataḥ ।  
Ūrdhvaṁ bhittī-uchchrāyāt tasya mañjarīm tu prakalpayet ॥  
Mañjaryāś chārdha-bhāgena śuka-nāsaṁ prakalpayet ।  
Ūrdhvaṁ tathārdha-bhāgena vedi-bandho bhaved iha ॥

(*Viśvak* 6, 767, *J. R. A. S.*, N. S.,  
Vol. vi, pp. 421, 320, note 2.)

These lines are identical in the *Matsya-Purāṇa* (Chap. CCLXIX, vv. 11-13.)

VEDI-BHADRA—One of the three classes of pedestals, the other two being Prati-bhadra and Mañcha-bhadra. It has four types differing from one another in the addition or omission of some mouldings and in height.

(*M.*, xiii, 27-53 ; see the list of mouldings under UPARIṬHA.)

VEŚANA—An entrance, a gate, a gateway, a band, an architectural moulding.

Eka-dvi-tri-daṇḍaṁ vā chāntarālasya veśanaṁ syāt ।  
Harmya-vaśād upa-veśanaṁ yuktam ।

(*M.*, xix, 191, 187.)

A band in connexion with joinery (*M.*, xvii, 139).

Cf. Ūrdhva-kūṭa-veśanam ।

. . . bhitti-vistāram eva cha ।

(*M.*, xx, 72.)

Śeṣaṁ tad-garbha-gehaṁ tu madhya-bhāge tu veśanam ।

(*M.*, xxxiii, 333-334 ; see also 488.)

In connexion with chariots : Kukshasya veśanam ।

(*M.*, xliii, 14)

In connexion with the phallus :

Liṅga-tuṅga-viśeṣaṁ syād veśanaṁ tan nayet budhaḥ ।

(*M.*, lii, 313.)

VEŚMAN—A 'house as the place where one is settled.'

(*R.-V.*, x, 107, 10 ; 146, 3 ; *A.-V.*, v, 17, 13 ; ix, 6, 30 ; *Āi. Bra.* viii, 24, 6.)

**VESARA**—A style of architecture, once prevailing in the ancient Vesara or Telugu country, ‘India between the Vindhya and the Krishna corresponding to Tamil India’ (S. K. Aiyangar, *J.I.S.O.A.*, Vol. II, no. 1, p. 23–27.)

(See details under NĀGARA.)

**VAIJAYANTIKA**—A type of building, a class of single-storeyed buildings.

(*M.*, XIX, 166; see under PRĀSĀDA.)

**VAIRĀJA**—A class of buildings, square in plan and named as follows: (1) Meru, (2) Mandara, (3) Vimāna, (4) Bhadra, (5) Sarvato-bhadra, (6) Ruchaka, (7) Nandika, (8) Nandi-varddhana and (9) Śrīvatsa.

(1) *Agni-Purāna* (Chap. CIV, vv. 11, 14–15; see under PRĀSĀDA).

(2) *Garuḍa-Purāna* (Chap. XLVII, vv. 21–22, 24–25; see under PRĀSĀDA)

**VAIŚYA-GARBHA** (see GARBHA-NYĀSA)—A kind of foundation prescribed for the buildings of the Vaiśyas.

(*M.*, XII, 162; see under GARBHA-NYĀSA.)

**VYAJANA**—A fan, an account of its architectural details.

(*M.*, L, 46, 97–110; see BHŪSHANA.)

**VYAYA**—One of the six Varga-formulas, an architectural measure, the name of a year.

(See details under SHAD-VARGA.)

(1) Śrīmach-chhāli-śakābdake cha galite nāgābhra-bāṅcīndubhiś chābdce sad-vyaya-nāmnī-claitra-sita-shashṭhyāṁ saumya-vārc vṛṣhe |

‘And in the excellent year named Vyaya . . .’

(Karkala inscrip. of Bhairava II, v. 6, line 7,  
*Ep. Ind.*, Vol. VIII, pp. 131, 134, 124.)

Śāli-vāhana-śaka-varsha (1508) ncyā vyaya-saṁvatsarada |

‘In the Śālivāhana saka year which corresponded to the Vyaya saṁvatsara . . .’—(*Ibid.*, line 9.)

(2) ‘When the year of glorious era called Śāliśaka, having the excellent name of Vyaya and to be expressed in words by the elephants, the sky, the arrows, and the moon, had expired . . .’

‘The month Chaitra of the Vyaya saṁvatsara, which was the year of the Śrī-Śālivāhana Śaka 1508.’—(Śāsana of the Jaina Temple at Karkala, *Ind. Ant.*, Vol. v, p. 43, c. 1, lines, 23, 32.)

**VYĀGHRA-NĪḌA**—The cage for a domesticated tiger, included in the articles of furniture.

(*M.*, L, 55, 251–269; see under BHŪSHANA.)

VYĀLA-TORAṆA (*see* TORAṆA)—An arch marked with the leoglyph.

Tataḥ samabhyunnata-pūrvva-kāyas tenādhirūḍhaḥ sa narādhipena ।  
Samutpatanti uttama-sattva-vegaḥ khe toraṇa-vyāla(ka)-vaddha  
bhāsa ॥

(*Prakamālā, Saśabha-jātaka*, xxv, 22; v. 19, ed. Kern, p. 165.)

ŚAKTI—Power, energy, capacity, strength, female divinity, the female deities in general.

*Mānasāra* (Chap. LV, 1-195), named Śakti :

Sarasvatī or goddess of learning, Lakshmi or goddess of wealth and fortune, Mahī or the earth goddess, Manonmanī (Maṇaḥ-unmādiṇī) or goddess of love, Sapta-mātrī or the seven goddesses collectively so called, and Durgā are the different phases of Śakti (lines 2-4).

Of these, Lakṣmī is distinguished into Mahā or the great Lakshmi and Sāmānyā or the ordinary Lakshmi, the latter being installed in all family chapels (lines 63-64). The seven goddesses consist of Vārāhī, Kaumārī, Chāmuṇḍī, Bhairavī, Māhendrī, Vaiṣṇavī, and Brahmāṇī (lines 126-127).

These seven goddesses are measured in the nine-tāla system (line 128) ; all other female deities are measured in the ten-tāla system (lines 34-38). Details of these measures will be found under TĀLA-MĀNA.

The sculptural details include the measures of the limbs, and the poses , and the ornaments and features of each of these female deities are described in detail (lines 4-128, 132-195).

*Cf.* Mātrī-gaṇaḥ kartavyaḥ sva-nāma-devānurūpākṛita-chihnaḥ ।

(*Bṛihat-saṃhitā*, LVIII, 56.)

ŚAKTI-DHVAJA—A moulding of the column.

(*M.* xv, 77 ; *see* lists of mouldings under STAMBHA.)

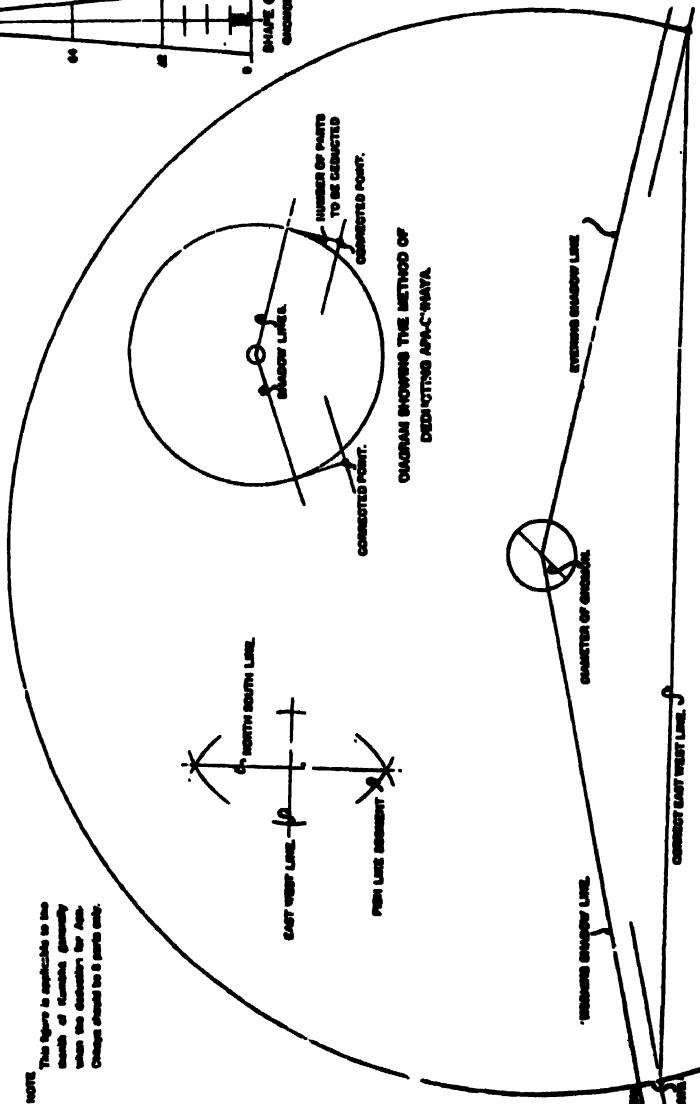
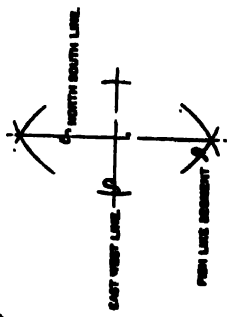
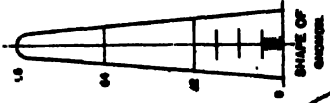
ŚANKU—A stake, a peg, a post, a pole, a measuring rod, the gnomon by means of which the cardinal points are ascertained for the orientation of buildings (*see* details under DVĀRA).

*See* THŪṆA :

The memorial pillar set up at the four corners of śmaśāna (grave and cemetery) (*Sat. Brā.*, XIII, 8, 4, 1 ; IV, 2, 5, 15 ; *Kāṭ. Śrauta Sūtra*, XXI, 3, 31) upon which Yama makes seats for the departed (*R.-V.*, x, 18, 3 ; *A.-V.*, XVIII, 3, 52).

# THE SANKU OR GNOMON.

NOTE: The figure is applicable to the south of London generally when the declination for Azimuth change should be a north one.



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(1) *Mānasāra* (Chap. vi, 1-120, named Śaṅku) :

Rules are laid down on the principles of dialling and for ascertaining the cardinal points by means of a gnomon. The gnomon is made of some particular wood (lines 10-12, 106-108). It may be 24, 18, or 12 aṅgulas in length and the width at the base should be respectively 6, 5, and 4 aṅgulas (lines 13-22). It tapers from bottom towards the top (line 14). The rules are described (lines 23-88) ; but they are more explicit in the quotations given below. As regards the principles of dialling, each of the twelve months is divided into groups of ten days each, and the increase and decrease of shadow (or days, as stated by Vitruvius, *see* below) are calculated in these several parts of the different months.

Pegs (khāta-śaṅku) are stated to be posted in the foundations (lines 110-118).

(2) *Sūrya-siddhānta* (Chap. III, vv. 1-51, 2, 3, 4) :

Construction of the dial and description of its parts (vv. 1-6) ; the measure of amplitude (v. 7), of the gnomon, hypotenuse and shadow, any two being given to find out the third (v. 8) ; precession of the equinoxes (vv. 9-12) ; the equinoctial shadow (vv. 12-13) ; to find, from the equinoctial shadow the latitude and co-latitude (vv. 13-14) ; the sun's declination being known, to find from a given shadow at noon, his zenith-distance, the latitude, and its sine and cosine (vv. 14-17) ; latitude being given to find the equinoctial shadow (v. 17) ; to find, from the latitude and the sun's zenith, distance at noon, his declination, and his true and mean longitude (vv. 17-30) ; latitude and declination being given, to find the noon-shadow and hypotenuse (vv. 21-22) ; from the sun's declination and the equinoctial shadow to find the measure of the amplitude (vv. 22-23) ; to find from the equinoctial shadow and the measure of amplitude at any given time the base of the shadow (vv. 23-25) ; to find the hypotenuse of the shadow when the sun is upon the prime-vertical (vv. 25-27) ; the sun's declination and the latitude being given, to find the sine and the measure of amplitude (vv. 27-28) ; to find the sine of the altitude and zenith-distance of the sun, when upon the south-east and south-west vertical circles (vv. 28-33) ; to find the corresponding shadow and hypotenuse (vv. 33-34) ; the sun's ascensional difference and the hour-angle being given, to find the sines of his altitude and zenith-distance, and the corresponding shadow and hypotenuse (vv. 34-36) ; to find, by a contrary process, from the shadow of the given time, the sun's altitude and zenith-distance and the hour-angle (vv. 37-39) ; the latitude and the sun's amplitude being known to find his declination and true longitude (vv. 40-41) ; to draw the path described by the extremity of



the shadow (vv. 41-42) ; to find arcs of the right and oblique ascension corresponding to the several signs of the ecliptic (vv. 42-45) ; the sun's longitude and the time being known, to find the point of the ecliptic which is upon the horizon (vv. 46-48) ; the sun's longitude and the hour-angle being known to find the point of the ecliptic which is upon the meridian (v. 49) ; and the determination of time by means of these data (vv. 50-51).'

' On the surface of a stone levelled with water or on the levelled floor of the chunam work, describe a circle with a radius of a certain number of digits. Place the vertical gnomon of 12 digits as its centre and mark the two points where the shadow (of the gnomon) before and after noon meets the circumference of the circle ; these two points are called the east and the west points (respectively) . Then draw a line through the *timi* (fish) formed between the (said) east and west points and it will be the north and south line or the meridian line.'

(To draw a line perpendicular to and bisecting the line joining two given points, it is usual to describe two arcs from the two given points as centres with a common radius, intersecting each other in two points ; the line passing through the intersecting points is the line required. In this construction the space contained by the intersecting arcs is called ' *Timi* ', a fish, on account of its form).

' And thus, draw a line through the *timi* formed between the north and the south points of the meridian line ; this line would be the east and west line.'

' In the same manner, determine the intermediate directions through the *timis* formed between the points of the determined directions (east, south, etc.).'

(3) The *Siddhānta-tīromani* (Chap. vii, vv. 36-39) refers to the ' rules for resolving the questions on directions ' by means of a gnomon. But it does not apparently deal with the cardinal points we are discussing here.

(4) The *Līlāvātī* (xi 1-10, part 2, Chap. ii, section 4) lays down a few rules for ascertaining the shadow of the gnomon of 12 digits as well as the height of the lamp by which the shadow is caused in this case instead of by the sun. But it has no specific reference to the cardinal points.

(5) See Rām Rāz (*Ess. Arch. of Hind.*, pp. 19-20).

(6) Rev. Kearns gives some extracts from Myen (*Maya*) (*Ind. Ant.*, ol. v, p. 231) :

Rule I—

' Stand with the sun to your right, join your hands horizontally—reject the thumbs—erect the index-finger from the middle. If the shadow of the erect finger extends to the outer edge of the finger next

adjacent—to the index-finger of the left hand—it denotes 48 minutes past sunrise, and so on.'

When the sun has passed the meridian, the position must be altered accordingly.

Rule II—

'Take a straw eleven fingers in length, place it on the ground, bend it, raising one part to serve as a gnomon, the gnomon being erected against the sun, east or west of the meridian. The height of the gnomon is found by raising the end of the bent portion no higher than suffices exactly to throw its shadow to the extreme point of the recumbent portion of the remainder of the straw. The gnomon so found gives the time of day. Ascertain how many fingers it contains; the sum is the time in Indian hours.'

(7) The details given above may be compared for further knowledge of the subject with those quoted below from *Vitruvius* :

'Thus are expressed the number and names of the winds and the points whence they blow. To find and lay down their situation we proceed as follows :

'Let a marble slab be fixed level in the centre of the space enclosed by the walls, or let the ground be smoothed or levelled, so that the slab may not be necessary. In the centre of this plane, for the purpose of marking the shadow correctly, a brazen gnomon must be erected.

The Greeks call this gnomon *skiatheras*.'

'The shadow cast by the gnomon is to be marked about the fifth anti-meridional hour and the extreme point of the shadow accurately determined. From the central point of the space whereon the gnomon stands, as a centre, with a distance equal to the length of the shadow just observed, describe a circle. After the sun has passed the meridian, watch the shadow which the gnomon continues to cast till the moment when its extremity again touches the circle which has been described. From the two points, thus obtained in the circumference of the circle, describe two arcs intersecting each other and through their intersection and the centre of the circle first described draw a line to its extremity; this line will indicate the north and south points.

'One-sixteenth part of the circumference of the whole circle is to be set out to the right and left of the north and south points and drawing lines from the points thus obtained to the centre of the circle, we have one-eighth part of the circumference for the region of the north, and another eighth part for the region of the south. Divide the remainders of the circumference on each side into three equal parts and the divisions or

regions of the eight winds will be then obtained ; then let the directions of the streets and lanes be determined by the tendency of the lines which separate the different regions of the winds.

‘ Inasmuch as the brevity with which the foregoing rules are laid down may prevent their being clearly understood, I have thought it right to add for the clearer undersanding thereof two figures. . . . The first shows the precise regions whence the different winds blow, the second, the method of disposing the streets in such a manner as to dissipate the violence of the winds and render them innoxious.’

‘ Let  $A$  be the centre of a perfectly level and plane tablet whereon a gnomon is erected. The ante-meridional shadow of the gnomon being marked at  $B$ , from  $A$ , as a centre with the distance  $AB$ , describe a complete circle. Then replacing the gnomon correctly, watch its increasing shadow, which after the sun has passed his meridian, will gradually lengthen till it become exactly equal to the shadow made in the forenoon, then again touching the circle at the point  $C$ , from the points  $B$  and  $C$ , as centres, describe two arcs cutting each other in  $D$ . From the point  $D$ , through the centre of the circle, draw the line  $EF$ , which will give the north and south points. Divide the whole circle into sixteen parts. From the point  $E$ , at which the southern end of the meridian line touches the circle, set off at  $G$  and  $H$  to the right and left a distance, equal to one of the said sixteen parts, and in the same manner on the north side, placing one foot of the compasses on the point  $F$ , mark on each side the points  $I$  and  $K$ , and with lines drawn through the centre of the circle, join the points  $GK$  and  $HI$ , so that the space from  $G$  to  $H$  will be given to the south wind and its region ; that from  $I$  to  $K$  to the north wind. The remaining spaces on the right and left are each to be divided into three equal parts ; the extreme points of the dividing lines on the east sides, to be designated by the letters  $L$  and  $M$  : those on the west by the letters  $N$  and  $O$  : from  $M$  to  $O$  and from  $L$  to  $N$  draw lines crossing each other : and thus the whole circumference will be divided into eight equal spaces for the winds. The figure thus described will be furnished with a letter at each angle of the octagon’.—(*Vitruvius*, Book I, Chap. vi).

‘ It is clearly by a divine and surprising arrangement, that the equinoctial gnomons are of different lengths in Athens, Alexandria, Rome, Placenza and in other parts of the earth. Hence the construction of dials varies according to the places in which they are to be erected : for from the size of the equinoctial shadow, are formed analemmata, by means of which the shadows of gnomons are adjusted to the situation of the place and the lines which mark the hours. By an analemma is meant a rule deduced from the sun’s course and founded on observation of the increase

of the shadow from the winter solstice, by means of which, with mechanical operations and the use of compasses, we arrive at an accurate knowledge of the true shape of the world.'—(Book IX, Chap. IV.)

‘From the doctrines of the philosophers above mentioned, are extracted the principles of dialling and the explanation of the increase and decrease of the days (shadows in the *Mānasāra*) in the different months. The sun at the times of the equinoxes, that is, when he is in Aries or Libra, casts a shadow in the latitude of Rome equal to eight-ninths of the length of the gnomon. At Athens the length of the shadows is three-fourths of that of the gnomon; at Rhodes five-sevenths; at Tarentum nine-elevenths; at Alexandria three-fifths; and thus at all other places the shadows of the gnomon at the equinoxes naturally differ. Hence in whatever place a dial is to be erected, we must first obtain the equinoctial shadow. If, as at Rome, the shadow be eight-ninths of the gnomon, let a line be drawn on a plane surface, in the centre whereof is raised a perpendicular thereto; this is called the gnomon, and from the line on the plane in the direction of the gnomon let nine equal parts be measured. Let the end of the ninth part *A*, be considered as a centre, and extending the compasses from that centre to the extremity *B* of the said line, let a circle be described. This is called the meridian. Then of those nine parts between the plane and the point of the gnomon, let eight be allotted to the line on the plane, whose extremity is marked *C*. This will be the equinoctial shadow of the gnomon. From the point *C* through the centre *A*, let a line be drawn, and it will represent a ray of the sun at the equinoxes. Extend the compasses from the centre to the line on the plane, and mark on the left an equidistant point *E*, and on the right another, lettered *I*, and join them by a line through the centre which will divide the circle into two semi-circles. This line by the mathematicians is called the horizon. A fifteenth part of the whole circumference is to be then taken, and placing the point of the compasses in that point of the circumference *F*, where the equinoctial ray is cut, mark with it to the right and left the points *G* and *H*. From these, through the centre, draw lines to the plane where the letters *T* and *R* are placed, thus one ray of the sun is obtained for the winter and the other for the summer. Opposite the point *E*, will be found the point *I*, in which a line drawn through the centre, cuts the circumference; and opposite to *G* and *H* the points *K* and *L*, and opposite to *C*, *F*, and *A*, will be the point *N*. Diameters are then to be drawn from *G* to *L*, and from *H* to *K*. The lower one will determine the summer and the upper the winter portion. These diameters are to be equally divided in the middle at the points *M* and *O*, and the points being thus marked,

through them and the centre *A* a line must be drawn to the circumference, where the letters *P* and *Q* are placed. This line will be perpendicular to the equinoctial ray and is called in mathematical language the Axon. From the last obtained points as centres (*M* and *O*) extending the compasses to the extremity of the diameter, two semi-circles are to be described, one of which will be for summer, the other for winter. In respect of those points where the two parallels cut that line which is called the horizon ; on the right hand is placed the letter *S*, and on the left the letter *V*, and at the extremity of the semi-circle, lettered *G*, a line parallel to the Axon is drawn to the extremity on the left, lettered *H*. This parallel line is called Lacotomus. Finally, let the point of the compasses be placed in that point where this line is cut by the equinoctial ray, and letter the point *X*, and let the other point be extended to that where the summer ray cuts the circumference, and be lettered *H*. Then with a distance equal to that from the summer interval on the equinoctial point, as a centre, describe the circle of the months, which is called Manacus. Thus will the analemma will be completed . . . '

' In all the figures and diagrams the effect will be the same, that is to say, the equinoctial as well as the solstitial days, will always be divided into twelve equal parts.'—(Book IX, Chap. VIII.)

(8) *Brahma-siddhānta-sphuṭa* of Brahmagupta (XIX, 1-20).

(9) *Pañcha-siddhāntikā* of Varāhamihira (II, 10-13 ; XIV, 1-11, 14-22.)

(10) *Mayamata* (VI, 1-28).

(11) *Śilparatna* of Śrikumāra (XI, 1-22).

(12) *Kaśyapa-śilpa* (I, 60-70).

(13) *Vāstu-vidyā* (III, 7-10).

(14) *Manuśyūlaya-chandrikā* (II, 1-4).

ŚANKHA—A type of round building.

(1) *Agni-Purāṇa* (Chap. CIV, vv. 17-18 ; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa*, (Chap. XLVII, vv. 21, 23, 28-29 ; see under PRĀSĀDA).

ŚANKHA-KUNḌALA—An ornament, an ear-ring of conch-shell.

(*M.*, LVI, 167, 170 ; see BHŪSHANA.)

ŚANKHA-PATRA—An ornament of leaf pattern, made of conch-shell.

(*M.*, LIV, 170 ; see BHŪSHANA.)

ŚĀTARDHIKA—A pavilion with eighteen pillars.

(*Matsya-Purāṇa*, Chap. CCLXX, v. 13 ; see under MAṆḌAPA.)

ŚATAṅGA—A car, a carriage, a war-chariot, an arm-chair, a sofa.

(Ranganath inscrip. of Sundara-pandya, v. 14,  
*Ep. Ind.*, Vol. III, pp. 12, 15.)

See *Chullavagga* (VI, 2, 4; also VI, 20, 2; VIII, 1, 3) which reads Sattaṅgo. There seems to be another expression, Apasayam, to mean a sofa or arm-chair (see Buddhaghosa's note on *ibid.*, VI, 2, 4).

ŚATRU-MARDANA—A pavilion with thirty-four pillars.

(*Matsya-Purāna*, Chap. CCLXX, v. 11; see under  
MANḌAPA.)

ŚAMBHU-KĀNTA—A class of eleven-storeyed buildings.

(*M.*, XXIX, 2-8; see under PRĀSĀDA.)

ŚAYANA—Lying down, a bed, a couch, the recumbent posture, the roof of a house, a building material, a class of buildings in which the width (at the bottom) is the unit of measurement, the temples in which the idol is in the recumbent posture.

Compare Āsandi, Talpa, Proshṭha, and Vahya, the *Ṛig-Veda* (VII, 55, 8) refers to 'married woman occupying their commodious "talpas," the new bride on the fashionable "vahya" and other single women of the household on the "proshṭhas" within the family home (harṃya).'

A bedstead (*M.*, III, 10, 11, 12; XLIV, 74, and colophon).

The recumbent posture (*M.*, LXII, 15; LXIII, 47, etc.).

A synonym of the roof of a house (*M.*, XVI, 56, 58; see PRAṢṢHĀ-DANA).

The wood used in constructing a bedstead (*M.*, XLIV, 74).

A temple (*M.*, XIX, 7-11, See under APA-SAMḤITA.)

ŚAYANA-MANḌAPA—A bed-chamber, sleeping apartments.

(*M.*, XXXII, 72, etc.)

ŚARKARĀ—Sugar, a small stone, a pebble, a gravel, sand, any hard particle.

A material of which idols are made (*M.*, LI, 6, etc.; see under ĀBHĀSA).

Cf. Mūsālena tu saṃpīḍya śarkarādi-samanvitam |

(*Suprabhedāgama*, XXXI, 110.)

ŚARMA—A house (*R.-V.*, VII, 82, 1).

ŚĀSTRA-MANḌAPA—An arsenal, a detached building for the storage of arms.

(*M.*, XXXII, 69, etc.)

**ŚAKHĀ**—A branch, an arm, part of work, a wing, the door-frame, the door-post, the jamb.

- (1) Śākhā-dvaye'pi kāryaṃ sārđhaṃ tat syād udumbarayoḥ ॥  
 Uchchhrāyāt pāda-vistīrṇā śākhā tadvad udumbaraḥ ॥  
 Vistāra-pāda-pratīmaṃ bāhulyaṃ śākhayoḥ smṛitam ॥  
 Tri-pañcha-sapta-navabhiḥ śākhābhis tat praśasyate ॥  
 Adhaḥ-śākhā-chatur-bhāge pratihārau niveśayet ॥

(*Bṛihat-saṃhitā*, III, 24 ; LVI, 13, 14.)

(2) The third and fourth lines of the *Bṛihat-saṃhitā* quoted above are identical with those in the *Matsya-Purāṇa* (see Chap. CCLXX, vv. 20 21).

- (3) Uchchhrāyāt pāda-vistīrṇā śākhās tadvad udumbare ॥  
 Vistārārdhena bāhulayaṃ sarveshāṃ eva kīrtitam ॥  
 Tri-pañcha-sapta-navabhiḥ śākhābhir dvāram iṣṭadam ॥  
 Adhaḥ-śākhā-chaturthāṃśe pratihārau niveśayet ॥  
 Mithunaiḥ pāda-varṇābhiḥ śākhā-śeṣaṃ vibhūshayet ॥

(*Agni-Purāṇa*, Chap. CIV, vv. 28-30.)

- (4) A wing (Dabhoi inscrip. v. III, *Ep. Ind.*, Vol. I, p. 31).

**ŚĀNTIKA** (see UTSEDHA)—A measure, the height which is equal to the breadth.

(See *M.*, xxxv, 22-28, and cf. *Kāṃikāgama*, L. 24-28, under ADBHUTA.)

**ŚĀLĀ**—Primarily a thatch of straw (*chālā*) for shelter of men or their cattle and stores, then the homestead inclusive of such stalls and sheds (*A. V.* III, 12, 1 ; V, 31, 5 ; VI, 106, 3 ; VIII, 6, 10 ; IX, 3, 1 ; XIV, 1, 63 ; *Tait. Brā.* I, 2, 3, 1 ; *Sat. Brā.* III, 1, 1, 6) ; then houses generally as in Śālāpati or householder (*A.-V.*, IX, 3, 12) ; finally a section or a single room of a house as in patnī-śālā, agni-śālā. It came quite early to be used of flourishing and wealthy residences as in prāchīṣa-śālā (*Sat. Brā.* x, 3, 3, 1 ; 6, 1, 1 ; *Chhand. Upanishd.*, v, 11, 1 ; *Mund. Upanishad* I, 1, 3) and in the Śilpa-śāstra notably in the *Mānasāra* it is used for a storeyed-mansion, a hall, a room, an apartment, a house, a stable, a stall. The three terms, śālā, maṇḍapa, and grīha, are sometimes indiscriminately used to imply houses in general. Gośālā (cow-shed) (*M.*, xxxii, 87), pāṭha-śālā (college or school) ; vāji-śālā, gaja-śālā, and mesha-śālā (*M.*, x, 127-128, etc.) generally indicate a separate house for domestic animals ; while pāka-śālā (kitchen), etc., may imply a hall or room inside a small building also. But there is a clear distinction between maṇḍapa and śālā. 'Trees are stated (*Matsya-Purāṇa*, VII, 83-120) to have supplied to the primitive man the model of his future house. Śālā (house) is stated (VV, 117-120) to have been derived from Śākhā

(branch), because originally branches were arranged lengthwise, breadthwise, crosswise, up and down, and thatch them to make the first house.'

Maṇḍapas are detached single-storeyed pavilions (*M.*, xxxiv) and Śālās are storeyed mansions furnished with pavilions (*M.*, xxxv).

(1) *Mānasāra* (Chap. xxxv, 1-404), named Śālā :

In this chapter 'śālā' is used mostly in the sense of a house. Śālās imply both temples and residential buildings for the Brahmans, the Kshatriyas, the Vaiśyas and the Śūdras (lines 1-2).

Their characteristic features as single buildings :

Śālāyāḥ parito'lindam pṛishṭhato bhadra-samhyutam । (40)

Purato maṇḍapopetaṁ . . . † (41)

Ekāṅka-talāntam syāt chūli-harmyādi-maṇḍitam । (47)

Like villages, Śālās are divided into six classes, namely. daṇḍaka, svastika, maulika, chatur-mukha, sarvato-bhadra, and vardhamāna (lines 3-4). Some of these with a certain number of halls are stated to be temples while others varying in the number of rooms are meant for the residences of different castes (lines 32-37). A distinction is made with regard to the number of storeys they should be furnished with (lines 78, 359-373, etc.).

The maximum number of storeys a śālā has is twelve as usual. All the storeys of all these śālās are described in detail (lines 5-401).

(2) *Kāṁikagāma* (Chap. xxxv, 1-193a) :

Śālās are meant to be the dwellings of the Brāhmanas and others (vv. 1-2) :

Eka-dvi-tri-chatuḥ-sapta-daśa-śālā prakīrtitaḥ ।

Tad-ūrdhvaṁ tri-tri-vṛidhyā tu yāvad iṣṭam pragrihyatām ॥

Tā eva mālīkāḥ proktā mālā-vat kriyate yataḥ ॥

Then follow the measurement (vv. 3-12), and the āyādi-shaḍvarga (vv. 13-20).

The different component parts of the Śālā :

Adhiṣṭhānam cha pādāṁ cha prastarāṁ kaṅgam eva cha ।

Śikharam stūpikā chaiva śālāṅgam iti kathyate ॥ (21)

The measurement of the base, pillar, entablature, tower, finial, and dome is given next (vv. 22-32).

The wall is also described (vv. 32, 33) :

Tri-hastāntam tu vistāro bhittinām parikīrtitaḥ ॥

Mūla-bhittir idam mānam ūrdhve pādārdha-hinakanam ।

Anyonyam adhikā vāpi nyūnā vā bhittayaḥ samāḥ ॥

The groups of Śālās are described (vv. 34-36).



The verandahs (alinda) are also described (vv. 36-38) :

Āsām agre tu alindāḥ syuḥ pradhāne vā viśeshataḥ |  
Eka-dvi-tri-chatush-pañcha-shaṭ-saptālinda-saṁyuṭa(-ā)ḥ ||  
Prishṭhe pārśve tathaiva syuḥ iṣṭa-dēśe athavā punaḥ |

The courtyard (prāṅkaṇa or prāṅgaṇa) is described (*see* vv. 39-42). The adytum, the open quadrangle, and the upper storey, etc., are also described (vv. 45-57). This section is closed with the statement that the description of śālās given above is but general characteristics (v. 58).

This is followed by a brief reference to the uses of śālās :

Taitilānām dvi-jātinām pāshaṇḍāsraminām api |  
Hasty-aśva-ratha-yodhānām yāga-homādi-karmasu |  
Devānām bhū-patinām cha nṛitta-gītādi-karmasu || (58)

Then follow the architectural and other details of the storeys which number as many as sixteen (vv. 59-86) :

Evam eva prakāreṇa kuryād āśhoḍaśa-kshmakam || (86)

The śālās are, like the villages and towns, classified (vv. 87-88) :

Ādyam tu sarvato-bhadraṁ dvitīyaṁ vardhamānakam |  
Tritīyaṁ svastikaṁ proktaṁ nandyāvartaṁ chaturthakam ||  
Charukaṁ (for Ruchakam) pañcam-(aṁ) vidyāch chhālānām api-  
(abhi)dhānakam ||

Details of these śālās are given next (vv. 89-96).

Maṇḍapas and śālās are distinguished from each other :

Maṇḍapaṁ tu vidhātavyaṁ śālānām agra-deśāke || (96a)

The remaining portion of the chapter deals with some constituent members of śālās, such as the pīṭhikā, bhadra, khalūrikā (vv. 103, 117-118), gopura (v. 124a), chūli-harmya (v. 125), aṅkaṇa (v. 131), parigha (v. 132a), vaṁśa (vv. 147, 149), piṇḍa (v. 158), etc.

The stone-pillars and stone-walls are stated not to be built in residential śālās or buildings (v. 161) :

Śilā-stambhaṁ śilā-kuḍyaṁ narāvāse na kārayet |

The drains (jala-dvāra), etc., are next described.

The chapter closes with an account of the rules regarding the situation of halls like the drawing-room (āsthāna-maṇḍapa, v. 191), kitchen (vv. 176-178), bedroom (v. 179), etc. :

Sarvadā bhinna-śālāsu sandhi-karma na kārayet || (157a)

Devatā-sthāpanaṁ piṇḍaṁ śālāsu na vidhīyate || (158)

*Ibid.*, L, 90 (definition) :

Vaṁśādīr aṁśa-rahitā śikhara-stūpikānvitā(h) |

Nāsikā-mukha-paṭṭāṁśā śāleti parikīrtitā ||

(3) Dhana-dhānyam cha vāyavye karmma-śālām tato bahiḥ |

The treasury and granary should be built at the north-west, outside that should be the office.—(*Matsya-Purāṇa*, Chap. cclvi, v. 35.)

- (4) Sarpādaya padma-nidhe(h) śālārṇ svarṇa-mayīm kuru ॥  
Rathasyeśāna-dig-bhāge śālārṇ kṛitvā suśobhanām ॥  
Tan-madhyc maṇḍapaṁ kṛitvā vedīm tatra sunirmalām ॥

(*Skanda-Purāṇa, Vaiṣaṇava-khaṇḍa, II, Chap. xxv, vv. 3, 26.*)

- (5) Mānavānārṇ gṛihā proktā vasavas te kakub-gatāḥ ॥  
Sarnsthāna-bhedena te jñeyāḥ pañchadhā syuḥ pramāpataḥ ॥  
Svayoni-vyāsa-gatayo dig-vidikshu cha sarnsthitāḥ ॥  
Bhinna-śālā cha sā proktā manujānārṇ śubha-pradāḥ ॥  
Dig-vidikshv-eka-yonisthā paryastena tathaiva cha ॥  
Jñeyā chatur-śāleti śilpa-śāstra-nidarśibhiḥ ॥

(*Vāstu-vidyā, ed. Śāstri, VIII, 1-3.*)

- (6) Pūrva-dakṣiṇaṁ bhāgaṁ mahānaśaṁ hasti-śālārṇ koṣṭhāgāraṁ  
cha ॥

Pāśchimottaraṁ bhāgaṁ yāna-ratha-śālā ॥

(*Kauṣṭhīya-Artha-śātra, Chap. xxv, p. 55.*)

- (7) Śālā-tri-bhāga-tulyā kartavyā vithikā bahir bhavanāt ॥

'Outside the dwelling one should make a gallery, being in width a third of the hall.'—(*Bṛihat-saṁhitā, LI, 20, see J.R.A.S. N. S., Vol. VI, p. 283.*)

- (8) Vyākhyāna-śālā—hall of study.—(Bheraghat inscrip. of Alhanadevi, v. 28, *Ep. Ind., Vol. II, pp. 13, 16.*)

- (9) Teneyam kārītā śālā śrīviśālā monoramā ॥

Dhātrevā svechchhayā śṛiṣṭiḥ sthāpitādisura-trayaḥ ॥

Śālā Manovativaiśā Brahma-yuktā virājate ॥

Atra vidyārthinaḥ santi nṛnā-janapadodbhavāḥ ॥

'He got this school made here, magnificent in its splendour and handsome, as it were, made by the Creator after his own will, in which he placed the three principal gods. This school shines forth like Manovati (a mythical town on mount Meru) joined by Brahman; here there are scholars born in various lands.'

'To judge by the description of it, the śālā must have been an establishment of some importance.'—(Salotgi pillar inscrip. no. A, vv. 16, 17, *Ep. Ind., Vol. IV, pp. 60, 61, 63, 58, note 5.*)

- (10) Go-śālā—cow-shed (three inscrip. from Travancore, no. B, line 3, *Ep. Ind., Vol. IV, p. 203.*)

- (11) Nāṭya-śālā—a hall for religious music (dancing) built in front of the Durgā temple.—(Dirghasi inscrip. of Vanapati, line 15, *Ep. Ind., Vol. IV, pp. 316, 318.*)

- (12) Bhakta-śālā—an almshouse or place for the distribution of food.—(Assam Plates of Vallabhadeva, v. 13, *Ep. Ind., Vol. V, pp. 184, 183, 187.*)

(13) Chakre-sri-Aparājiteśa-bhavane śālā tāthāsyaṛṇ rathaḥ Kailāta-pratimas triloka-kamalālamkāra-ratnochchayaḥ |

‘For the temple of Aparājiteśa he provided a hall with a car richly decked with precious stones.’—(The Chahamanas of Naddula, no. C, Sundha hill inscrip. of Chachigadeva, v. 52, *Ep. Ind.*, Vol. ix, pp. 78, 74.)

(14) Chatu(h)-śālāvasadha-pratiśraya-pradena ārāma-tadāga-udapāna-kareṇa |

‘Who has given the shelter of quadrangular rest-houses and made wells, tanks, and gardens.’—(Nasik Cave inscrip. no. 10, line 2 f., *Ep. Ind.*, Vol. viii, pp. 78, 79.)

(15) ‘Caused to be built in stone on the summit japa-śālc, satra, and a fort with bastion.’—(*Ep. Carnat.*, Vol. x, Bagepalli Taluq, no. 68; Transl., p. 240.)

(16) ‘In the antarāla (or interior) they erected a most beautiful raṅga-manṭapa, and a fine chandra-śālc (or upper storey) according to the directions given by the King Timendra.’—(*Ep. Carnat.*, Vol. xii, Pavugada Taluq, no. 46; Transl., p. 46, line 14 f.; Roman Text, p. 203, v. 9.)

(17) ‘By him this college (śālā) has been caused to be constructed (established), rich, spacious and beautiful . . . and this college full of the intelligence is resplendent with Brāhmaṇas. Here there are scholars born in various districts. For their subsistence is (hereby) provided.’ (cf. no. 9 above).—(Salotgi inscrip., *Ind. Ant.*, Vol. 1, p. 210, c. 2. para. 1.)

(18) Śāleyaṁ vīdīdha-pravāsi-manuja-prājyopakāra-kshamā rathyā chatvara-ramya-koshṭa-vīlasad-vātāyanā ślakshṇa-bhūḥ |

Nānā-deśa-samāgatān pathi pariśrāntān asaṅgrāhiṇo nityaṁ bhōjana-vāsa-dāna-vidhinā kāmānugān toshayct ||

(Inscrip. from Nepal, no. 23, inscrip. of Queen Lalita-tri-pura-Sundarī, v. 4, Second Series, *Ind. Ant.*, Vol. ix, p. 194.)

(19) ‘The building, represented in the plate as adjoining the temple, is a dharma-śālā, or house of rest, where pilgrims of good caste receive board and lodging gratis for a fixed period.’—(*Ind. Ant.*, Vol. xvi, p. 11, c. 2 line 1 f.)

(20) ‘Erected a stone hall for gifts (dāna-śālā) in Jinanāthapura (a suburb of Śrāvana-Belgola).’—(*Ep. Carnat.*, Vol. ii, inscrip. on Chandragiri, no. 40; Transl., p. 122, line 20, Roman Text, p. 10, line 4 from bottom upwards.)

(21) ‘His mother . . . and his sister . . . erected a paddi-śālā in his memory.’—(*Ep. Carnat.*, Vol. ii, no. 51; Transl., p. 120, last para.; Roman Text, p. 34, last three lines; Introduction, p. 51. para. 3.)

(22) Māṭṭīda paḍasālc (pada or pāda-śālā)—Mr. Rice translates it by verandah.—(*Ep. Carnat.*, Vol. iii, Mysore Taluq, no. 59; Roman Text, p. 13; Transl., p. 6.)

(23) ' He was pleased to set with precious stones the Kāndalur hall (śālā).—(*Ep. Carnat.*, Vol. III, Tirumakūḍlu-Narasipur Taluq, no. 35 ; Roman Text, p. 147, line 1 ; Transl. p. 74, line 1 f.)

(24) Endowed it (basadia or Jaina temple) with Arhanahalli (a village or town), together with a fine tank, a street with a hall for gifts (dāna-śālā) in the middle, two oil-mills and two gardens.—(*Ep. Carnat.*, Vol. IV, Kṛishṇarājapeṭ Taluq, no. 3 ; Transl., p. 99 ; Roman Text, p. 159, last three lines.)

(25) Out of love for (the god) Chennigarāya, erected the yāga-śāle. (*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 13 ; Transl., p. 147 ; Roman Text, p. 107.)

(26) ' Śrī - Gopāla - svāmiyavara - nava-raṅga - paṭṭa-śāle prākāra-vanu kaṭṭisi.'

For the god Gopāla . . . he erected the nava-raṅga, the paṭṭa-śālā, and the enclosure wall.

Nava-raṅga prākāra-paṭṭa-śāle-samasta-dharmīna—' this nava-raṅga, enclosure wall and paṭṭa-śālā and all other work of merits were carried out by . . . . '—(*Ep. Carnat.*, Vol. V, Part I, Channarayapatna Taluq, no. 185 ; Roman Text, p. 467 ; Transl., p. 205.)

(27) ' The virūpāksha-śālā was erected to the temple.'

The inscription is ' on the floor of the maṅṭapa in front of the Virabhadra temple. Śālā apparently means here a maṅḍapa or detached building (pavilion) where the god Virūpāksha is installed.'—(*Ep. Carnat.*, Vol. VI, Koppa Taluq, no. 4 ; Transl., p. 76 ; Roman Text, p. 166.)

(28) ' To the thousand of Gautamagrāma were given three śālās (halls or public rooms) to continue as long as moon and stars.'

Śāle or śālā in the sense of a hall or house has been used in this inscription more than twenty-five times.—(*Ep. Carnat.*, Vol. VIII, Shikarpur Taluq, no. 45 (bis), Transl., pp. 49, 50 ; Roman Text, pp. 97-98).

ŚĀLĀ-GRĪHA—A dwelling house, a type of building.

A type of rectangular building :

(1) *Agni-Purāṇa* (Chap. CIV, vv. 16-17 ; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. LXVII, vv. 21-22, 26-27 ; see under PRĀSĀDA).

ŚĀLĀNGA—The limbs of the śālā (hall or house), the essential parts of a house comprising the basement, pillar, entablature, tower, dome, and finial.

Adhiṣṭhānaṁ cha pādāṁ cha prastaraṁ karṇaṁ eva cha |  
Śikharaṁ stūpikā chaiva śālāṅgaṁ iti kathyate ||

(*Kāmikāgama*, xxv, 21.)

ŚALĀ-BHAÑJIKĀ—A wooden middled image.

(*Bharata-Nāṭya-śāstra*, II, 79.)

ŚALĀ-MĀLIKĀ—A class of buildings, a type of hall.

(*Kāmikāgama*, XXXV, 6; see under MĀLIKĀ.)

ŚĀSANA—An architectural member, a plate, a part of an enclosing wall.

Tad (mukha-bhadra)-agre vātha pārśve cha kuryāt sopāna-bhūsha-  
ṇam |

Tasya (maṇḍapasya) madhye cha raṅge tu mauktikena prapānvitam |

Tan-madhye śāsanādīnām toraṇām kalpa-vṛikshakam |

(*M.*, XXXIV, 217-219.)

ŚĀSTRA (see TANTRA)—Science (of Architecture).

ŚIKHARA—The top, an apex, a spire, a cupola, the lower part of the finial, a spherical roof rising like an inverted cup (Latin cupa) over a circular, square or multangular building, a small tower or turret. Above the dome (stūpi) are built in order śikhara, śikhā, śikhānta, and śikhāmaṇi.

(1) Small towers or turrets (*Bṛihat-saṃhitā*, LVI, 21, *J.R.A.S.*, N. S., Vol. VI, p. 319).

(2) See *M.*, XVIII, 276, XIX, 51, etc.

(3) Pādoktaṃ sarva-mānaṃ tu śikharo'pi vidhīyate ||

Dhruva-vidhāna-rītyā vā śikharam parikalpayet ||

(*Kāmikāgama*, XXXV, 29, 30).

The synonyms :

Śikharam śiraḥ mūrdhā cha śikhā mauliś cha muṇḍakam |

Śirshaṃ kam iti vijñeyam śiro-vargasya paṇḍitāḥ ||

(*Ibid.*, I, 206.)

(4) Vānarendra-griham . . . śukla-prāsāda-śikharaiḥ kailāśa-śikharopamaiḥ |

(*Rāmāyaṇa*, IV, 33, 15; see also IV, 26, 31;

VI, 41, 88, under PRĀSĀDA.)

(5) Spire :

Devuniki śikharamu gaṭṭimchi śikhara-marṇṭapa-gopuralu |

(Kondavidu inscrip. of Krishnaraya, v. 27,

*Ep. Ind.*, Vol. VI, pp. 237, 232.)

(6) Mūla-śikhare cha kanaka-maya-dhvaja-darṇḍasya dhvajāropana-pratiṣṭhāyām kṛitāyām—'also of the hoisting of the flag on the golden flag-staff on the original spire.'—(The Chahamanas of Marwar, no. XIX, Jālor stone inscrip. of Samarasimhadeva, line 4 f., *Ep. Ind.*, Vol. XI, p. 55.)

- (7) Idu-rajatādri hema-śikhara-pratipattiyān-Īśāniye pectudu Harahāsa-kalpa-taru kemdaḷirindesev-agra-bhāgadoḷ-puḍidud Umādhināthasita-gātra-sapimṅga-suṭumṅga-juṭadondo-ḍavenipa Svayambhū-śivagehada poṅgaḷaśaṁ sa-marṅgaḷam ॥

The golden spire, with its auspicious ornament of this house of Svayambhū-Śiva is such that it may be said that this is the silver mountain which has obtained, by the gift of Īśa, the possession of a golden summit ; it is a tree of desire on the (white pile of) Hara's laughter (namely, the mountain Kailāśa), crowned by a summit radiant with young red spouts, in it there is combined the unique substance of the white body and the tawny towering matted hair of the Lord of Umā.—(Inscrip. from Yewur, B. of A. D. 1017, v. 98, *Ep. Ind.*, Vol. XII, pp. 282, 289.)

- (8) Prāsādam ūrddhva-śikhara-sthira-hema-kumbham ।

'(Into) the temple (which by the stately display of) firm golden capitals upon lofty spires. . . . '—(Bhūvaneśvar inscrip. v, 15, line 11, *Ep. Ind.*, Vol. XIII, pp. 152, 154.)

- (9) Vistīrṇa-tūṅga-śikharam—' (a temple having) broad and lofty spire.' Manoharaiḥ-śikharaiḥ—with (its) charming spires.

(Mandaor stone inscrip. of Kumaragupta, lines 17, 20, *C. I. I.*, Vol. III, F. G. I., no. 18, pp. 83, 86, 87.)

- (10) 'For this god Prasanna-Virūpāksha, a temple, enclosing wall, gopura, finial (śikhara) covered with gold, a Manmatha tank, decoration, and illuminations . . . .'—(*Ep. Carnat.*, Vol. X, Mulbagal Taluq, no. 2 ; Roman Text, p. 82 ; Transl., p. 71.)

The same word in a similar sentence is translated by 'tower' in the following inscriptions :

- (11) 'For the god Prasanna-Someśvara having restored the temple, enclosure, tower (śikhara), Manmatha tank, the endowed villages, the maṅṭapas for alms, and all other religious provisions.'—(*Ibid.*, no. 18 ; Roman Text, p. 87 ; Transl., p. 75.)

- (12) Varadaraja-devara sikhara (śikhara)—'the spire of Varadaraja's temple.'—(*Ibid.*, Malur Taluq, no. 4 ; Roman Text, p. 187 ; Transl., p. 156.)

- (13) 'And erecting a stone pillar, according to the rules set up the spire or tower (śikhara).'—(*Ibid.*, Vol. XII, Pāvugada Taluq, no. 46 ; Transl., p. 122, line 16 ; Roman Text, p. 203, v. 10.)

- (14) Garbha-grīha-sthita-maṅṭapa-śikharam—'the ruined tower over the shrine (of the god Arkanātha).'—(*Ibid.*, Vol. III, Maḷavalli Taluq, no. 64 ; Roman Text, p. 127, line 3 ; Transl., p. 63.)

- (15) 'Śik(h)ara—applied to the summit of a tower.' Rca.—(Chalukyan architecture, *Arch. Surv.*, New Imp. Series, Vol. XXI, p. 39.)

(16) 'The platform on which this temple stands is approached by twelve steps, and six more lead to the sanctum, over which rises a tall dome or truncated sikri (śikhara).'—(Cunningham, *Arch. Surv. Reports*, Vol. xxxii, p. 135.)

(17) 'Sikhara (sakar, sikri)—Steeple of temple'.—(Vincent Smith, *Gloss., loc. cit.*, to Cunningham's *Arch. Surv. Reports.*)

(18) In the temples of Champa three distinct types of śikhara are noticed. The common type consists of a series of four storeys, diminishing as they rise, a curvilinear stone slab being as the crowning moulding. Another type comprises two storeys; the upper is ridge-shaped looking like an elongated arched vault with ogival ends at two sides with a slightly concave curve at the top. The third type 'consists of a curvilinear pyramidal dome springing directly from the walls of the sanctuary, and surmounted by a massive circular member of corrugated form' resembling Āmalaka of Indian temples.

(For details see *Inventaire Descriptif des Monuments Chams* D. L. Annam by Parmentier, as summarized by R. C. Mazumdar, Champa, 1, Chap. x, pp. 236, 237.)

ŚIKHĀ—The lower part of the finial, pinnacle or small turret-like termination.

Śikhā is the upper part, and śikhara, the lower :

Śikharordhva-śikhottuṅgaṁ stūpi-traya-samam eva cha |

Prastarādi-śikhāntarṁ syād gaṇya-mānarṁ pravakshyate |

(*M.*, xxxiii, 141, 144, etc.)

ŚIKHĀNTA—The finial (Latin finis), the top or finishing portion of a pinnacle.

(*M.*, xi, 119, etc.)

ŚIKHĀ-MANI—The crest-jewel, the top end of the finial, the apex.

(*M.*, xlix, 85, lxxvii, 31, etc.)

*Cf.* Śiro-ratna—crest-jewel.—(Deopara inscrip. of Vijayasena, v. 14, *Ep. Ind.*, Vol. 1, pp. 308, 313.)

ŚIBIKĀ—A synonym of yāna or conveyance, a litter, a palanquin.

(*M.*, iii, 9, etc.)

ŚIBIKĀ-GARBHA—A square hall.

Śibikā-gabbho ti chaturassa-gabbho.—(Buddhaghosha, *Chullavagga*, vi, 3, 3.)

The interpretation of Oldenberg and Rhys Davids as quart-measure shaped is not supported by the Commentator Buddhaghosha as quoted above.

ŚIBIKĀ-VEŚMA—A type of rectangular building.

(1) *Agni-Purāṇa* (Chap. CIV, vv. 16-17, see under PRĀSĀDA).

(2) *Garuḍa Purāṇa* (Chap. XLVII, vv. 21-22, 26-27, see under PRĀSĀDA).

ŚIBIRA—A camp, a royal residence, a fortified city.

(*M.*, x, 40, etc.)

Samā(sāma)ntānāṁ samṛiddhānāṁ yat sthānāṁ śibirāṁ smṛitam |

Gaja-vāji-samāyuktaṁ senā-sthānāṁ tad eva hi ||

(*Kāṁikāgama*, xx, 11.)

ŚIRAS—The head, the finial, the top, the summit, the pinnacle.

(*M.*, xv, 231, etc. ; LVII, 54, etc.)

ŚIRASTRAKA(-STRĀṆA)—A head-gear, a helmet.

(*M.*, XLIX, 13, etc. ; see BHŪSHANA.)

ŚIRĀLAMBA—A crowning ornament of a column.

(*M.*, xv, 101 ; see STĀMBHA.)

ŚILĀ-KARMA—Masonry, the art of building in stone, the stone-work

Sugana-raje-Dhanabhūtaṁ kārtaṁ toraṇaṁ śīlākarmaṁto cha  
upaṁno (śīlā-karmāntāś-choṭpannah) |

‘During the reign of the Suṅgas (this) gateway was erected and the masonry finished by Dhanabhuti.’—(Sunga inscrip. of the Bharhut Stupa, line 3 f., *Ind. Ant.*, Vol. xiv, pp. 138, 139 ; no. 1, Vol. xx, pp. 227.)

ŚILĀDHIVĀSANA—Preparation of stones for building, the worship of stones for building.

Śilādhivāsana(h)-karma ṣṭhāvidhi sampādyā tasmīn-eva śake  
bhādra-kṛishṇa-navamyāṁ śukle śīlā-praveśam vidhāya . . . .

‘The worship of the stones for the building.’ Dr. Bühler and Bhagvanlal Indraji.

This interpretation of Śilādhivāsana does not seem to be appropriate. The term may refer to some processes or ceremonies similar to those in connexion with Śilā-saṁgraha or collecting and selecting stones for buildings.—(Inscrip. from Nepal, no. 23 ; Inscrip. of Queen Lalita-tri-pura-sundarī, line 14, *Ind. Ant.*, Vol. ix, pp. 193, 194, c. 2.)

ŚILĀ-PAṬṬA-VAMŚA—‘Now known as Silawat caste, who are masons and found in the neighbourhood of Damoh.’ Rai Bahadur Hiralal.

(*Ep. Ind.*, Vol. xii, p. 44, note 1.)

S(ś)ilā-paṭṭa-śubhe vaṁśe sūtradhārā vichakṣaṇāḥ |

Bhojukaḥ Kāmadevaś cha karmanīṣṭhā Halā sudhāḥ ||

(Batihagarh stone inscrip., v. 12, *ibid.*, p. 46.)



ŚILĀ-PRAVEŚĀ—Laying the corner-stone or foundation.

Śilādhivāsana(h)-karma yathāvidhi sampādyā tasminn eva śake . . . śilā-praveśam vidhāya—' the corner stone was laid.' Dr. Bühler and Bhagvanlal Indrajī.—(Inscrip. from Nepal, no. 23, , inscrip. of Queen Lalita-tri-pura-sundarī, line 14, *Ind. Ant.*, Vol. ix, pp. 193, 194, c. 2.)

ŚILĀ-MARDDAKA (ŚILE-MUDDAS)—A guild of stone masons, the stone-cutters.

' Śile is the Canarese form of the Sanskrit śilā, a stone, and Mudda is a jaṅgam or Līngāyat name. Śile-mudda must be the name of some particular guild of stone-masons.' Dr. Fleet.—(Sanskrit and Old Canarese inscrip., no. 114, line 1, *Ind. Ant.*, Vol. x, pp. 170, 117, note 58.)

ŚILĀVEDĪ—The stone terrace on which sacred trees usually stand.

*Cf.* Mahāvamśa, 36, 103, 1.

ŚILĀ-VEŚMA—Stone-houses, cave-houses.

*Cf.* Megha-dūta, 1, 25 (quoted by Prof. Lüders, *Ind. Ant.*, Vol. xxxiv, p. 199.)

ŚILĀ-STAMBHA—The stone column, a kind of column, the monolith.

Shaṭ-saptāśṭāṅgulam vāpi śilā-stambha(m)-viśālākam ।  
 Vṛittam vā chatur-aśram vā aśṭāśram shoḍaśāśrakam ।  
 Pāda-tuṅge'shṭa-bhāge tu tri(trya)mścnordhvam alaṅkṛitam ।  
 Bodhikam mushṭi-bandham cha phalakā tāṭikā ghaṭam ।  
 Sarvālankāra-samyuktam mūle padmāsanānvitam ।  
 Chatur-dikshu chatur-bhadram kechid bhadram tu kārayet ।  
 Kuṭṭimam chopapīṭham vā sopapīṭha-masūrakam ।  
 Athavā chihna-vedih syāḥ prapālankāram uchyate ।

(*M.*, LVII, 15–22.)

ŚILPA-ŚĀSTRA—The science of architecture and other cognate arts.

*See* details under VĀSTU, VĀSTU-VIDYĀ and VĀSTU-KARMA.

*See* also the Preface of this Encyclopaedia and the Preface of *Indian Architecture* by the writer.

ŚILPI-LAKSHAṆA—The description of the artists : their qualifications, rank, caste, etc. (*see* under STHAPATI).

ŚILPI-ŚĀLĀ—A school or workshop of architecture.

(*M.*, LXVIII, 50.)

SIVA—A class of buildings.

(*Kāmikāgama*, XLV, 35-38; see under MĀLIKĀ.)

ŚIVA-KĀNTA—The pentagonal or five-sided pillar furnished with five minor pillars.

(*M.*, XV, 22, 245; see under STAMBHA.)

ŚIVA-MANḌAPA—The Śiva temple, a type of pavilion.

(*M.*, XXXIV, 196.)

ŚIṢṬA-MANḌAPA—A type of pavilion.

(See *Kāmikāgama*, under ARDHA-MANḌAPA.)

ŚIRSHA—The top end of a building, almost same as śikhānta.

Śirshaṁ cha śikhā-grīvaṁ vṛttam syād vajrayāntikam |

(*M.*, XIX, 181, etc.)

ŚUKA-NĀSĀ(-SIKĀ)—The parrot's nose, an object having an acquiline nose, the part of the finial looking like the parrot's nose. The lower half part of a tower.

- (1) Chaturdhā śikharaṁ bhajya ardha-bāga-dvayasya tu |  
Śuka-nāsaṁ prakurvīta tritīye vedikā matā ||

(*Matsya-Purāṇa*, Chap. CCLXIX, v. 18.,

- (2) Śikharārthaṁ (?-dham) hi sūtrāṇi chatvāri vinipātayet |  
Śuka-nāso(-sā)rddhataḥ sūtraṁ tiryyag-bhūtaṁ nipātayet |  
Śikharasyārdha-bhāgasthaṁ sirhaṁ tatra tu kārayet |  
Śuka-nāsaṁ sthirikṛitya madhya-sandhau nidhāpayet ||  
Apare cha tathā pārśve tadvat sūtraṁ nidhāpayet |  
Tad-ūrddhvaṁ tu bhaved vedī sakaṅṭhā mānasārakam ||

(*Agni-Purāṇa*, Chap. XLII, vv. 15-17.)

Chaturdhā śikharaṁ kṛtvā śuka-nāsā dvi-bhāgikā ||

(*Ibid.*, Chap. CIV, v. 10.)

- (3) Prāsādau nirgatau kāryau kapotau garbha-mānataḥ |  
Ūrdhvaṁ bhitty-uchchhrāyāt tasya mañjarīm tu prakalpayet ||  
Mañjaryāś chārdha-bhāgena śuka-nāsaṁ prakalpayet |  
Ūrdhvaṁ tathārdha-bhāgena vedi-bandho bhaved iha ||

(*Viśvak*, 6, 767, quoted by Kern, *J. R. A. S.*,  
N. S., Vol. VI, p. 321, note 2 of p. 320.)

The above lines are identical in the *Matsya-Purāṇa* (Chap. CCLXIX, vv.

11-13).

- (4) Vṛittākāraṁ samaṁ chet tu toraṅgāṅhrivad āyatam |  
 Sakandharaṁ tad-ūrdhve tu śuka-nāsyā vibhūṣhitam ||  
 Garbha-dvi-tri-kara-vyāsa-śuka-nāsā mukhe mukhe |  
 Na kartavyā vimāneshu nāsikordhve na nāsikā ||

(*Kāṁikāgama*, LV, 120, 157.)

ŚUKAṄGHRI—A type of pillar.

Ūrdhva-kshetra-samā jaṅghā jaṅghārdha-dvi-guṇaṁ bhavet |  
 Garbha-vistāra-vistṛṇaḥ śukāṅghriś cha vidhiyate ||  
 Tat-tri-bhāgena kartavyaḥ pañcha-bhāgena vā punaḥ |  
 Nirgamaṁ tu śukāṅghreś cha uchchrāyaḥ śikharārdhagaḥ ||

(*Garuḍa-Purāṇa*, Chap. XLVII, vv. 3-4; see also vv. 13, 17.)

ŚUDDHA—A house built (generally) of one material, namely, wood, brick, or stone, etc.

Drumeṣṭhakayā vāpi ṛiśēdādyair athāpi vā |  
 Etena sahitaṁ geḥaṁ śuddham ity-abhidhiyate ||

(*Kāṁikāgama*, XLV, 21.)

See also *Mānasāra*, etc. under PRĀŚĀDA.

ŚUMBHAMKARĪ—The fifth or composite type of the five Indian orders.

(*Suprabhedāgama*, XXXI, 65, 67; see under STAMBHA.)

ŚŪLA—A pike, a dart, a lance, the trident of Śiva, the finial.

A dart (*M.*, VII, 223, 236; LIV, 142).

A synonym of śikhā or finial (*M.*, XVII, 126).

A pike as a component part of the cage for the tiger.—(*M.*, L, 262.)

ŚŪLA-KAMPA (see ŚŪLA)—A pike.

Paritaḥ śūla-kampaṁ syād dvāraṁ tad dakṣiṇottaram |

(*M.*, XL, 136.)

ŚRIṆKHALĀ—A chain.

In connexion with the bedstead :

Chaturbhiḥ śriṅkhalā-yuktam āndolaṁ chaikatopari |

(*M.*, XLIV, 70.)

ŚRIṆGA—The top, the turret, elevation, height, the spire, a horn.

(*M.*, LXII, 25, etc.)

Śriṅgaṅaikena bhavet—furnished with one spire.

(*Bṛihat-saṁhitā*, LVI, 23, 26, *J. R. A. S.*,  
 N. S., Vol. VI, p. 319.)

ŚRĪŅĀRA-MANĀPA—A bed-chamber, the pavilion or room where the deity of a temple is made to retire at night.

Devānām cha vilāsārtham śringārākhyam tu maṇḍapam ।

(*M.*, xxxiv, 388, etc.)

ŚMASĀNA (*see* CHARTYA)—Funeral and memorial structures, tombs of various shapes, round and dome-shaped (*parimaṇḍalā*, *Sat. Brā.*, xiii, 8, 1), hemispherical bowl-shaped (*chamū*) resembling a vault, enclosed by an indefinite number of enclosing stones (*ibid.*, xiii, 8, 2, 2) or bricks (*A.-V.*, xviii, 4, 55), square or quadrilateral (*Sat. Brā.*, xiii, 8, 1, 1), as also pyramidal as in later temples and śikharas. Compare Buddhist stūpas. The three main types described in the *Satapatha Brahmana* and referred to in *R.-V.*, and *A.-V.*, Vāstu (reliquary of bones, etc.) or tumulous, round or square; Grihān or house with many chambers probably dedicated to some religious or philanthropic use and 'erected over or beside the grave in memory of the deceased or built underground as rock-cut caves; and Prajñānam or a memorial monument or pillar four of which were set up in four corners of the grave out of which Buddhist memorial pillars might have grown up'. (For further details, compare Sarkar, *ibid.*)

ŚYĀMA-BHADRA—A type of pavilion with fourteen pillars.

(*Matsya-Purāna*, Chap. cclxx, v. 14; *see* MANĀPA.)

ŚRĀNTĀ—An architectural ornament, a shed.

In connexion with single-storeyed buildings :

Evam proktaṁ harmyake madhya-bhadram ।

Śālā-koshṭham dig-vidike kūṭa-yuktā ।

Hārā-śrāntā-nāsikā-pañjarādhyam ।

(*M.*, xix, 192-194.)

ŚRĪ-KANṬHA—Anything possessing a beautiful neck, a class of buildings.

A type of octagonal buildings (*Agni-Purāna*, Chap. civ, vv. 20-21, *see* under PRĀSĀDA).

ŚRĪ-KARA—An order, a class of columns, a type of storeyed buildings, a sect of people, a sub-caste of the Kayasthas, originally those who used to write the legal documents (*Karaṇa*), hence the clerical community, clerks.

(1) One of the five orders (*Suprabhedāgama*, xxxi, 65, 66; *see* under STAMBHA).

(2) A class of single-storeyed buildings (*M.*, XIX, 170, *see* under PRĀSĀDA).

(3) A class of two-storeyed buildings ; the measurement of the component parts (*see* under ŚĀLĀṄGA), etc. (*M.*, XX, 93, 2-9 ; *see* under PRĀSĀDA).

(4) A sect of people (*M.*, IX, 152, 226, etc.).

ŚRĪ-KĀNTA—A type of storeyed building, a class of bases comprising four types which differ from one another in the addition or omission of some mouldings and also in height.

(*M.*, XIV, 371-387 ; *see* the list of mouldings under ADHISHṬHĀNA.)

A class of three-storeyed buildings (*M.*, XXI, 2-11 ; *see* under PRĀSĀDA).

A class of seven-storeyed buildings (*M.*, XXV, 24 ; *see* under PRĀSĀDA).

ŚRĪ-JAYA—A type of oval building.

(1) *Agni-Purāṇa*, (Chap. CIV, vv. 19-20, *see* under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 29-30, *see* under PRĀSĀDA).

ŚRĪ-PADA—A class of buildings.

. . . . Śrī-padaṁ cha tataḥ śriṇu |  
Koshṭhakāstv-ihā chatvāraś chatuḥ-koṇeṣhu chaiva hi ||  
Chatur-nāsi-samāyuktam anu-nāsi-daśāṣṭakam |  
Evaṁ lakṣhaṇa-samāyuktam śrī-padaṁ tv-iti kirtitam ||

(*Suprabhadgama*, XXXI, 50, 51).

ŚRĪ-PĀDA—The footprint of Buddha on Adam's Peak in Ceylon, otherwise called Ratnapāda. For details, *see* BUDDHA-PĀDA.

ŚRĪ-BANDHA—A class of bases comprising four types which differ from one another in the addition or omission of some mouldings.

(*M.*, XIV, 109-122 ; *see* the list of mouldings under ADHISHṬHĀNA.)

ŚRĪ-BANDHA-KUṬṬĪMA—The flat part of the Śrī-bandha type of bases.

(*M.*, XLIV, 43.)

ŚRĪ-BHADRA—A kind of throne, a type of pedestal.

A class of thrones (*M.*, XLV, 13, etc.).

A kind of pīṭha or the pedestal of the phallus (*M.*, LIII, 36, etc.)

ŚRĪ-BHOGA—A type of storeyed buildings, a class of bases comprising two types which differ from each other in the addition or omission of some mouldings.

(*M.*, XIV, 260-280, *see* the list of mouldings under ADHISHṬHĀNA.)

A class of seven-storeyed buildings (*M.*, xxv, 23; see under PRĀSĀDA).  
 ŚRI-MUKHA—A beautiful face, a kind of throne.

(*M.*, xlv, 14, etc., see under SĪMĪHĀSANA.)

ŚRI-RŪPA—A type of pavilion.

(*M.*, xxxiv, 478, etc.; see under MAṆḌAPA.)

ŚRI-VATSA—A class of buildings, a type of pavilion, a special mark on the breast of the image of Viṣṇu.

A pavilion with 48 pillars (*Matsya-Purāṇa*, Chap. cclxx, v. 9; see under MAṆḌAPA).

A type of quadrangular buildings :

(1) *Agni-Purāṇa*, (Chap. civ, vv. 14-15; see under PRĀSĀDA).

(2) *Garuḍa-Purāṇa* (Chap. xlvii, vv. 24-25; see under PRĀSĀDA).

A particular mark on the breast of Viṣṇu or Kṛiṣṇa 'represented in pictures by a symbol resembling a cruciform flower.'—(*M.*, xlix, 150; lv, 92; xviii, 375, etc.)

ŚRI-VIŚĀLA—A type of gate-houses, a class of storeyed buildings, a kind of throne, a type of pedestals.

A class of gopuras or gate-houses (*M.*, xxxiii, 555).

A class of single-storeyed buildings, (*M.*, xix, 168; see under PRĀSĀDA).

A kind of throne (*M.*, xlv, 13; see SĪMĪHĀSANA).

A type of the pīṭha or pedestal of the phallus (*M.*, liii, 39).

ŚRI-VṚIKSHA (see KALPA-VṚIKSHA)—An ornamental tree employed as a carving.

Śeṣaṁ maṅgalya-vihagaiḥ śrī-vṛiksha-svastikair ghaṭaiḥ |

Mithunaiḥ patra-vallibhiḥ pramathaiś chopasobhayet ||

'Let the remaining part (of the door) be ornamented with sculptured birds of good augury śrī-vṛiksha-figures, crosses (svastika), jars, cupolas, foliage (leaves and creepers), tendrils and goblins.'—(*Bṛihat-saṁhitā*, lvi, 15, *J. R. A. S.*, N. S., Vol. vi, p. 318.)

ŚRUTIMĀJAYA—A pavilion with forty-eight pillars.

(*Matsya-Purāṇa*, Chap. cclxx, v. 10, see under MAṆḌAPA.)

ŚREṆITA-DVĀRA—A kind of door, doors or gates in a row.

Madhye dvāraṁ tu kuryād madhya-sutrāt tu vāmake |

Kuryāj jala-dvāraṁ tu śreṇita-dvāraṁ kalpayet |

(*M.*, xxxviii, 39-40.)

ŚRENI(-ŃI)-BANDHA—A class of bases comprising four types which differ from one another in height and in the addition or omission of some mouldings.

(*M.*, xiv, 149-175; see the list of mouldings under ADHISHṬHĀNA.)

SRONI (-ŃĪ)—The buttocks (of an image), the hip or loins, a waist-band, a string worn round the loins; figuratively used for building also, compare KAṬI.

ŚVETA-MANḌA—The white part of the eye of an image.

(*M.*, LXV, 68.)

## SH

SHAṬ-TALA—The sixth storey, the six-storeyed buildings.

Their general features (*M.*, xxiv, 27-46).

Thirteen types (*ibid.*, 2-26; see under PRĀSĀDA.)

SHOḌAŚA-TALA (see GOPURA)—The sixteenth storey, the sixteen-storeyed gate-houses.

Evam eva prakāreṇa kuryād āshoḍaśa-kshmakam ।

(*Kāṃikāgama*, xxv, 86.)

SHAD-VARGA—A group of six, six formulas, 'with which the perimeter of a structure should conform,' six proportions, six main component parts of a building comprising adhishṭhāna (base), pāda or stambha (column), prastara (entablature), karṇa (ear, wings) śikhara (roof), and stūpi (dome).

(1) According to the *Mānasāra* the Āyādi-Shaḍ-varga represents a set of six formulas with which any particular measurement must conform before it can be accepted. Mention of the Shaḍ-varga is found also in the *Bimba-māna* and the Āgamas. The formulas in each case, however, are not the same and differ in these several works (see below).

The formulas according to the *Mānasāra* :

Āya	is the remainder of	$l \cdot \frac{\times 6}{12}$	( <i>l</i> for length).
Vyaya	.. ..	$\frac{b \times 9}{10}$	( <i>b</i> for breadth).
Riksha	.. ..	$\frac{l \cdot 8}{27}$	
Yoni	.. ..	$\frac{b \times 3}{8}$	

Vāra is the remainder of  $\frac{c \times 9}{7}$  ( $c$  for circumference, thickness or height).

Tithi       "       "       "        $\frac{c \times 9}{30}$

Amśa<sup>1</sup>     "       "       "        $\frac{c \times 4}{9}$

Eteshām grāma-rūpāṇām āyādi-lakṣhaṇām tathā ।

Nandāyāma-samūhe vā chāyate vātha vistare ।

Pariṇāhe pade vāpi āyādi-śuddhiṁ cha kārayet ।

Kechit tv-āyatane chaivam āyam cha tad-dine (nakshatre) bhavet ।

Pariṇāhe tithir vāram vyaya-yoni(ś) cha vistare ।

Vasubhir guṇitaṁ bhānur(-nunā) hānyāyāmam aṣṭa-śiṣṭakam ।

Aṣṭābhir vardhite ṛikṣhaṁ(-sheṇa) hṛitvā śeṣhaṁ kṣhaṁ ishyate ।

Navabhir vardhayet paṅktiḥ(-tyā) hṛitvā śeṣhaṁ vyayaṁ bhavet ।

Guṇa-nāgam cha yoni(h) syād vṛiddhi-hānyā-yathā-kramam ।

Nava-vṛiddhyā ṛishim(-chiṇā) hṛitvā tach-chhesham vāram eva cha ।

Navabhir guṇite triṁśat(-ā) kṣhapech chhesham tithir bhavet ।

(M., ix, 63-73.)

The six formulas include 'amśa' in the Samchita and Asamchita buildings, while in the Apasamchita 'tithi' is included :

Vakshye'haṁ jāti-harmyāṇām āyādi-lakṣhaṇām kramāt ।

Pūrvoktānām vimānānām vistārādi-vaśādibhiḥ ।

Āya-vyayaṁ cha yoniṁ cha nakshatraṁ vāram amśakam ।

Tithir vātha śaḍ etāni tathāyādi-vido viduḥ ।

Samchitāsamchitānām cha amśair āyādibhir yutam ।

Apasamchita-harmyāṇām tithy -antāni śaḍ grahīshyate ।

(M., xxx, 169-174.)

(It should be noticed, that the divisor in each case is the same in all the works under observation).

The names of all the different classes of formulas, such as Āya, Vyaya, Vāra, etc. represent well-known groups of objects that always follow a certain serial order. Āya represents the group of twelve beginning with Siddhi. Vyaya represents the group of ten beginning with śikhara. Ṛiksha represents the well-known group of twenty-seven planets. Yoni represents the group of eight animals, namely, Dhvaja, Dhūma, Simha, Śūna, Vṛisha, Gardhava, Dantīn, and Kāka. Vāra represents the group of seven days of the week. Tithi represents the group of thirty lunar days comprising fourteen of the dark half, fourteen of the light half, new moon

<sup>1</sup>Also Rāsi, Gaṇa, Nayana (M., ix, 88, 89, 90-93).



day and the full moon day. And Amśa represents the group of nine beginning with Taskara :

Siddhādi-dvā-daśāyaḥ syāch chhikharādi vyayām daśa ।

Dhvajādim ashṭa yoni(ḥ) syāt taskarādi navāmśakam ।

Prathamādi-tithir ity-evam choktavad ganayet sudhiḥ ।

(M., xxx, 188-190.)

Dhvaja-dhūma-sirṅha-sūnaka-vṛisha-gardabhās cha ।

Dantī cha kākaś cha vasu-yoni(ḥ) yathā-krameṇa ।

(M., LI, 357-358.)

Tach-chhesham chāpi nakshatram gaṇayed aśvini-kramāt ।

Śesham tad vāram ity-uktam arka-vārādi-vāra-yuk ।

(M., xxx, 183, 185; see context below.)

It should be noticed that the measurement of length is tested by the formulas under Āya and Riksha, of breadth under Vyaya and Yoni, and of circumference or height under Vāra and Tithi.

It will be noted that the formula in each case consists of the product of the measurement to be considered and a certain other number divided by a figure which corresponds to the number constituting the group or series under which it is placed.

In each case, therefore, by resolving the formula, the remainder that may be left can be referred to that particular number in the series represents by that class, and if this happens to be one that under the conditions prevailing would be considered auspicious then the particular measurement would be acceptable, if not it would have to be rejected. For example, if in a particular instance  $\frac{b \times 3}{8}$  coming under the class Yoni, the remainder left is two, it will point to the second Yoni Dhūma. If this Yoni is stated to be inauspicious, then the particular measurement of breadth cannot be approved. If again in the formula  $\frac{c \times 9}{7}$  the remainder happens to be 4, it will indicate the 4th day (Wednesday) of the week, and if it be stated to be auspicious, the circumference (c) selected satisfies the test.

The auspicious and inauspicious remainders :

‘When there is no remainder left in the formula of ‘Āya’ it increases religious merits, and when there is no remainder left in the formula of “Vyaya” it is auspicious. There is no defect if the ‘Āya’ be equal to “Vyaya” ’:

Āyam sarva-haram puṇyam vyayam śarva-haram śubham ।

Āyādhikyam vyayam hīnam sarva-sampat-karam sadā ।

Yat-phalam śubha-yuktaṁ ched āya-hīnam tu dūshaṇam ।

Pūjyam vyayam samam evam tatra dosho na vidyate ।

(M., LXIV, 69-72.)

Āyaṁ sarva-haraṁ pūrṇam ( ? puṇyaṁ ) vyayaṁ sarva-gatena hi ।  
 Āyādhikyaṁ vyayaṁ hīnaṁ sarva-saṁpat-karaṁ tathā ।  
 Āya-hīnaṁ vyayādhikyaṁ sarva-dosha-karaṁ bhavet ।

(M., ix, 75-77.)

Subhadaṁ pūrṇa-nakshatram aśubhaṁ karṇa-ṛikshakam ।  
 Yugmāyugmādyā-turyaṁ shaḌ-ashṭa-nanda-śubharksha-yuk ।  
 Dvitiya-paryāsyārdhe gaṇanaś cha śubhāvaham ।  
 Sita-guru-śaśi-budha-vāram evaṁ śubhaṁ bhavet ।

(M., ix, 78-81.)

Dhvaja-śimha-vṛiṣha-hastī syāt teshāṁ śubha yonayaḥ ।  
 Janma-dvayaṁ chatuḥ-shashṭibhir asṭa-nanda-śubha-kshām ।  
 Nāma-janmādi-nandaṁ cha gaṇanaś tu vidhīyate ।  
 (Karṭri-rāśyādi-nāśyaṁ cha sena-dvitiyāntakam ।  
 Tṛitiye māna-j(y)akshādaḥ pūrva-vad gaṇanaś, tu vā ।)  
 Tasmāt tṛitiya-paryantaṁ ṛikshaiḥ sarva-śubhāvaham ।  
 Guru-śukra-budhāś chandra-mukhya-vāram praśasyate ।  
 Taskaro dhana-shaṇḍaś cha presṭhānyān śubhāmśakam ।  
 Varjyaṁ shashṭāshṭamaṁ rāśim anyat sarvaṁ śubhatī bhavet ।  
 Gajaḥ sarva-śubhaṁ proktaṁ mānushāsura(m) varjayet ।

(M., lxiv, 73-82.)

Gaja-yonir vinā kuryāt simhāsanānyathā śubham ।  
 Āyādhikyaṁ vyayaṁ hīnaṁ sarva-saṁpach-chhubhāvaham ।  
 Āya-hīnaṁ vyayādhikyaṁ sarva-saṁpad vināśanam ।

(M., lv, 81-83.)

Dhūma-yoniś cha kākāś cha gardhavān śuro varjayet ।  
 Anva-yoni-śubhaṁ sarve śubhāyān iha vojayet ।

(M., lv, 81, 84-85.)

Dhvaja-sirṅha-hasti-vṛiṣha-yoni(h) śubhaṁ praśastam ।  
 Anyeshu yonir aśubham uditam purāṇaiḥ ।

(M., lvi, 359-360.)

There are other rules as well, e.g. where Āya, etc. are considered with regard to height in the Jāti class, and with regard to length in the other classes of buildings.

Again Āya, etc. are considered with regard to breadth :

Jāti-dvārodaye sarve chāyādi-saṁgrahaṁ bhavet ।  
 Chhandādīnām tu sarveshām tāre chāyādi-saṁgraham ।  
 Vṛiddhi-hānyādi-sarveshām prāsādasyoktavat bhavet ।

(M., xxxix, 39-41.)

Vistāre chatur-aṅge vā shaḌ-śubhāyādi kārayet ।

(M., lv, 72.)

The formulas also vary on different occasions :

Tri-chatuḥ-pañcha-shaṭ-vṛidhyā chāshṭa-hānīś cha yonayaḥ |  
 Shaṭ-saptāshṭaka-vṛiddhyā tu dvādaśa kshapayet budhaḥ |  
 Śeṣham āyam iti proktaṁ saptāshṭa-nava-varadhanāt |  
 Daśabhiḥ kshapayech chhesham evaṁ vyayam udīritam |  
 Ashṭa-nanda-daśe vṛiddhyā sapta-viñśe kshayo bhavet |  
 Śeṣham dinam iti proktaṁ vṛiddhāshṭa-nandanādhikā |  
 Saptaika-chandrage śeṣham vāram evam udīritam |  
 Tri-chatuḥ-pañcha-vṛiddhyā tu kshapayet tu navāmsakam |

(*M.*, LV, 73-80.)

Etat tad eva saṁyuktaṁ harmyāṇām māna-kalpanam |  
 Shaṭ-saptāshṭaka-vṛiddhiḥ syād dvā-daśāntam kshayaṁ nyayet |  
 Śeṣham tad āyam ity-uktaṁ saṁchitādi-yathā-kramam |  
 Saptāshṭa-nava-vṛiddhyā tu haret pañktyā vyayam bhavet |  
 Eka-dvi-traya-vṛiddhyā tu kshapayet tv-ashṭā cha yonikam |  
 Shaṭ-saptāshṭa-vṛiddhyā tu sapta-vimśa-kshayo bhavet |  
 Tach-chhesham chāpi nakshatraṁ gaṇayed aśvinī-kramāt |  
 Shashṭa-nanda-vṛiddhyā tu saptabhiḥ kshapayet tataḥ |  
 Śeṣham tad vāram ity-uktaṁ arka-vārādi-vāra-yuk |  
 Tribhir vedās tu vṛiddhiḥ syān nanda-hāni-navāmsakam |  
 Tithi-randhroshṇa-vṛiddhiḥ syāt trīṁsatā tu kshayo bhavet |

(*M.*, xxx, 177-187.)

Īaighye līngasyāyādi-shad-varga-śuddhiṁ kuryāt sarvathoktavat |  
 Mānalīnge chānya-svāyambhuvādi-manam cha yuktaṁ thatā-  
 yādīni sarvaṁ na kuryāt |  
 Bandhāshṭa-nanda-vasu-nanda-yugena vṛiddhyā |  
 Chāshṭārka-paṅkti-turagair munibhir nanda-hanyāt |  
 Yonayaś cha vṛiddhir vyayam cha tu vāram aṁśam |  
 Līngaikena kuryāt tu parārtha-līnge |

(*M.*, LII, 349-354.)

Application of the rules :

‘They are applied in measuring both the architectural and the sculptural objects.’

These rules are considered in connexion with the measurement of villages and towns (*M.*, IX, 67-74), of the twelve-storeyed buildings (xxx, 164-174), and of the phallus (LII, 350-356).

*Cf.* also :

Āyādi-shaḍ-varga-(h) surair (=surāṇām) vimānc |  
 Chāyādhikam kshīṇa-vyayam śubham syāt |

Grāmādi-kartṛi-nṛipatika-kriyāṇām ।  
Sarvaṁ śubhaṁ tat kurute tu vidvān ।

(*M.*, xxx, 192-195.)

The necessity of these Shaḍ-varga formulas seems due to the fact that in most instances where the measurement of any object is concerned, the *Āgamas*, the *Bimbamāna*, the *Mānasāra* and the other works on architecture quote more dimensions than one. Thus for the length that an object is to be of, they instead of giving a single figure would quote, say, nine different measures. The *Mānasāra* in fact invariably gives nine different lengths nine different breadths, and five heights concerning a building or image. Out of these different and varying measures which is to be selected would be determined by the application of the six formulas. Any of the different measures prescribed is open to be accepted only when it satisfies the tests of the Shaḍ-varga. By a verification of the measurements with the respective formula it would eliminate the risk of dimensions being selected that would be disproportionate among themselves and improper. This might have been the purpose that the authorities had in contemplation in prescribing the rules of the Āyādi Shaḍ-varga in all the architectural treatises. The testing of measurements by the Shaḍ-varga thus formed one of the most important points to be followed in architecture and sculpture, and we find a reference to it in these ancient works so many times and almost without exception wherever there are any specifications prescribed.

- (2) *Bimbamāna* (British Muscum, MS. no. 558, 5292, vv. 10, 11-13)  
Mānaṁ tu yoni-nakshatra-samyuktam ॥  
Āyāmāshṭa-guṇite cha dvā-daśāṁśe'ti śeshatā ।  
Nandāṁśe tu guṇite'pi dharmāṁśe'ti vyayaṁ bhavet ॥  
Yonir guṇibhir guṇitau(-tā) chāshṭāṁśe 'pi tathaiva cha ।  
Rikslakam aṣṭa-guṇitaṁ cha sapta-vimśati-śeshataḥ ॥  
Vārakaṁ nava-guṇitaṁ cha saptāṁśe tu hṛitaṁ bhavet ।  
Amśakaṁ chābdi-guṇite'pi nava-bhāga-hṛitaṁ matam ॥
- (3) *Kāmikāgama* (xxxvi, 13-20, 169-172) :  
Āyādi-saṁpad-arthaṁ tu vistāre chāyatau tathā ।  
Utsedhe chaiva hastānāṁ samyak saṁpūrṇatāṁ nayet ॥ (13)  
Vistārāt kevalaṁ vātha vāyāmād unnates tathā ।  
Vistārāyāma-saṁsargād āyādyāṁ parigrīhyatām ॥ (14)  
Aṣṭa-tri-tri-aṣṭabhir hṛitvāshṭa-manvarka-bhair bhajet ।  
Āyo vyayaś cha yonīś cha nakshatraṁ śeshato bhavet ॥ (15)  
Trimśad āpṇuta paryantaṁ tithir vāṇaṁ tu saptabhiḥ ।  
Athavānya-prakāreṇa chāyādyāṁ parigrīhyatām ।

Dvayor bhyām dvayārdhasya vistāram dvayārdham nāhamtu  
nāhakam || (16).

Ashṭa-nandāgni-vasubhir gaṇayen nanda-nanda-nāha |  
Arka-dig-vasu-bhāh-sapta-navabhiḥ cha kramād bhajet || (17)  
Āyādhyam pūrva-vat proktam āyādhikam śubha-pradam |  
Yajamānasya yanmārkshe nānukūlam yathā bhavet || (18)  
Tathā parikshya kartavyam nāma nakshatrakam tu vā |  
Parikshya bahudhā kuryād ubhayaṁ vā parikshayet || (19)  
Sarvānukūlyam sarvatra vāstu yaśmān na labhyate |  
Tasmād guṇādhikam grāhyam alpa-dosham yathā bhavet || (20)  
Eka-tri-pañcha-saptānśc dhvaja-sīmha-vṛisha-dvipāḥ |  
Pūrvād yāsu śubhā hy-ete āyādyas tv-anulobhataḥ || (169)  
Dvi-chatuḥ-śaḍ-vasu-sthānam dhūma-śva-khara-vāyasāḥ |  
Āgnyādi vidikshv-cte varjanīyā bubhukshubhiḥ || (170)

and so on

See also *Kāmikāgama.*, Chap. 1 :

Ēvam ādau parikshyaiva prāsādam parikalpayet |  
Eteshām api sarveshām āyādi-vidhir uchyate || (57)

Various rules are again given :

Vistāram dvi-guṇam kṛtvā vasubhir bhājite sati |  
Śiṣṭam yonir iha proktā tad-abhāve tu śaudhakaḥ || (58)  
Udaye vasubhiḥ-sapta-vimśadbhir bham ihoditam |  
Paridhau nanda-guṇite sapta-bhur dvāram uchyate || (59)  
Sakalam tri-guṇam kṛtvā trimśadbhir bhājivā |  
Tithi-udayam vasubhir bhaktvā sūryāyas(-yais) tu śeshataḥ || (60)  
Punar apy udayam nanda-vasubhir vyayaḥ uchyate |  
Pādādhikam tu yat śiṣṭam tat sarvam sakalam bhavet || (61)  
Pūrva-vad guṇitam kṛtvā bhāgam(?) bhāram samam kṛtvā |  
Tenaiva vibhajet yal-lābhād adhikam bhavet || (62)  
Yugma-hastaiḥ svarodbhūtaiḥ śikhibhir yonir uchyate |  
Athavānya-prakāreṇa āyādi-vidhir uchyate || (63)  
Nāge sūtrāgni-randhra-bhuvana-daśa-vasvābdhi-śiṣṭas tu |  
Tat syād āyo na yonir vāram vasu-hatam udubhir (?) bhaktvā || (64)  
Śiṣṭam tu ṛiksham hatvā bhaktvātha sūtrair bhuvanam |  
Attha phalam śiṣṭam amśam vasughnam trimśad bhaktam || (65)  
Tithiḥ syād graha-dina-tithi-yogādāyo yoni-bhedāḥ |  
Athavānya-prakāreṇa chāyādīn parikalpayet || (66)  
Nāga-nanda-guṇa-nāga-nanda-dṛik-bhānu-nādi-vasu-bham munir  
vā |  
Āyam anyatra yoni-ṛikshakam vāram amśaka-guṇa-kshayakramāt ||  
(67)

Application of the rules :

Idam liṅge cha sakale dvāre stambhādike matam |  
 Idam āyādikam chārdha-maṇḍape śiṣṭa-maṇḍape || (68)  
 Parivārālaye tuṅga-harṁye anyasmin prakalpayet |  
 Evaṁ parīkṣhya bahudhā prāsādam parikalpayet || (69)

*Kārikāgama*, LV, 28-30 :

Mānaṁ labdhodayaṁ, yat syāt bhaktvā mātrayor viśeshataḥ  
 Pariḥṛityāṅguli-chchhedyam āyādyam parikalpayet || (28)  
 Aṣṭa-nandāgnibhiś chaiva vasu-nandā cha chatuṣṭayair hi |  
 Guṇatvara-vidhi-mūrti-ṛikṣha-sapta-navāmsakair hi || (29)  
 Hṛityam āyam vyayam chaiva yonis tāras tu vārakaḥ |  
 Aṁśakā chāvaśiṣṭās tu kalpaniyās tu deśikaiḥ || (30)

*Ibid.*, xxxv, 21 (refers to six component parts of a building) :

Adhishṭhānaṁ cha pādāṁ cha prastaraṁ karṇam eva cha |  
 Śikharaṁ stūpikā chaiva śālāṅgam iti kathyate || (21)

These are called *Shad-varga* : *cf.* XLV, v. 8 (under *Puṁliṅga*), v. 15, (under *Drāviḍa*), v. 10 (under *Striliṅga*), and v. 11 (under *Napuṁsaka*).

(4) *Laghu-śilpa-jyotiḥ-sāra* (ed. Śivarāma, I. 3-5) :

Āyo rāśiś cha nakṣatraṁ vyayas tāraṁśakās tathā |  
 Graha-maitrī rāśi-maitrī nāḍi-vedha-gaṇḍavaḥ ||  
 Ādhipatyam vāra-lagne tithy-utpattis tathaiḥ cha |  
 Ādhipatyam varga-vairam tathaiḥ yoni-vairakam ||  
 Ṛikṣha-vairam sthitir nāśo lakṣhaṇāny-eka-vimśatiḥ |  
 Kathitāni muni-śreṣṭhāiḥ śilpa-bi(vi)dbhir gṛihādishu ||

(5) *Manuśyalaya-chandrikā* (Chap. III, 33.) :

The same formulas are described in various ways. *See Six Canons of Indian Architecture*, by V. K. R. Menon, referred to elsewhere in this article.

These *Shad-varga* formulas are rules which are not easily grasped in the abstract form. They, however, need not be neglected if we are incapable of interpreting them correctly. While quoting a few extracts on this subject from a Tamil version of the *Mycn* ( *Mayamata*) Rev. J. F. Kearns, Missionary, Tanjore, lost his temper and priestly patience and has recorded the following :

'Strange as all this appears to us Europeans, natives regard these things as matters of great importance.'—(*Ind. Ant.*, Vol. v, p. 296, c. 1, last para.).

I fear whether the learned missionary understood the importance of the matters correctly. We may, however, compare in the absence of the Tamil text his translation (*ibid.*, p. 295-296) :

‘ Ascertain the length of the house, square it, multiply the sum by 8, and divide the product by 12, the remainder is the Ādāyam or profit (Āya). Again, take the square number and multiply it by 9, divide the product by 10, the remainder is the Śclavu or loss (i.e., Vyaya). Again, take the square number and multiply it by 27, and divide the product by 100, the remainder is the age or durability of the house. Again, take the square number, multiply it by 8, and divide the product by 27, the remainder is the star (i.e. Ṛiksha). Again, multiply the square number by 3, and divide the product by 8, the remainder is the Yoni. Multiply the square number by 9, and divide the product by 7, the remainder is the day (i.e. Vāra). Multiply the square number by 9, and divide the product by 4, the remainder is the caste. Multiply the square number by 4, and divide the product by 9, the remainder is the Amsam. Multiply the square number by 9, and divide the product by 30, the remainder is the ‘tithi.’

· If this falls within 15, it belongs to the crescent moon, but if above 15 to the decrescent moon. Again, multiply the square number by 4, and divide the product by 12, the remainder is the constellation. Multiply the square number by 8, and divide the product by 5, the remainder gives the Sūtra. The following are the Yonis : Garuḍa (Punai :), Sunha, Noy, Pambu, Eḷi, Aṇi, Muṣi ; of these (Punai :) (cat), Eḷi (rat), and Muṣi (hare) are bad. The following are the Amsams : Arsam, Soram, Puttu, Saithi, Thanum, Rāsiun, Kalibam, Varuttham, Rokam, and Subām. The following are the Sūtras : Balan Kumāran, Kājan, Kalavan, Marnan.’

The following examples are given to illustrate the foregoing :

· Given the length of the house 11 cubits, and the width 5 cubits, to find the age,—that is to say, how many years such a house will stand. By the rule  $11-5-55$ , and  $55-27-1405$ ,  $1485-100-14$ , the remainder being 85,—which remainder indicated the number of years the house will stand.’

· Given the length of a house 15 cubits, and the width 7 cubits, to find the caste for whom it is suitable,  $15-7-105$ ,  $105-9-945$ , and  $945-4-236$ , remainder 1. The remainder 1 indicates the first caste, i.e. Brahmans.’

· Given the length of the house 17 cubits, and the width 7, to ascertain the caste for whom it is suitable,  $17-7-119$ ,  $119-9-1071$ , and  $1071-4-267$ , remainder 3. The remainder 3 denotes the third or Vaiśya caste.’

· The next example exhibits the entire series. Given the length of the house 9 cubits, width 3 cubits, to find the (Ādāyam) and Śclavu, etc., etc. By the rule  $9-3-27$ ,  $27-8-216$ , and  $216-12-18$ ,— $12$ —(Ādāyam)  $27-9-243$ , and  $243-10-24$ , remainder 3,—which is the Śclavu or ‘as,

and so on according to the rule. 'The Yoni is Garuda, the star Revati, the part of the lunar month the third day, the day of the week Thursday, the constellation Pisces, and the caste Vaiśya.'

Mr. V. K. R. Menon, M.Sc. (London), intended to give a more rational and scientific explanation of these formulas in a pamphlet 'Six Canons of Indian Architecture.' But his endeavour has more or less failed owing to too many assumptions. The 'Architectural Significance' can hardly be explained by a reference to Astrological importance: an unknown matter cannot be understood by referring to an equally unknown thing. 'Some at least of these formulæ,' says Mr. Menon, 'have a very great architectural significance' and he 'hopes' to show that 'all of them can be explained in a simple manner with reference to Astrology.' 'When we realize,' continues Mr. Menon, 'that in the symbolic language of the *Silpa-śāstras* the newly-erected edifice represents not only a human being, but also a bridegroom, joined in holy wedlock to the plot of earth on which it is erected, we can sympathize with the strict injunctions to avoid the fifth (of life, death) at all costs, and to choose the second (youth) whenever possible. This picturesque identification of the structure with a human being must have given rise to the last five formulæ of the *Āyāda Shad-varga*' (pp. 5-6). It is true, however, 'that they (the application of these formulæ) occasionally prove troublesome when planning small houses and villas; but they do put a stop to the addition of disproportionately large verandahs to puny structure.' But he gives up curiously this architectural ground when he says that the 'satisfaction of conforming to the religion of one's motherland, should amply recompensate for such minor restrictions' (p. 7). He further imagines that these formulæ have something to do with the orientation of buildings (which subject has been treated under ŚĀṆKU in the *Mānasāra*) and emphatically says that 'this formula (on Yoni)—if my deductions are correct—is a purely architectural device compelling the sthapati (architect) to orient his structures properly.' He illustrates his doubtful assumption with an inaccurate reference when he says that 'All the temples, palaces, cities, villages and important roads of ancient India exactly faced the four primary points of the compass (N., S., E., and W.)' He comments thus: 'This is as it should be, for it places the Indian ideal in tune with the ideals of every other ancient nations.' His reference to examples of other countries are more accurate: 'The Egyptian pyramids faced exactly north. The Theban obelisks faced the rising sun.' The Palace of Sennacherib, the Tabernacle of the Jews, the temple of Solomon, the church at Bethlehem, the Holy Sepulchre of Christ at Jerusalem: all these satisfy the first formula (on Yoni) of *Āyādi Shad-varga*' (p. 9). The Indian monuments face other than these four cardinal points also.



**SHODĀŚA-PRATIMĀ**—The sixteen images, a group of sixteen deities.

*Cf.* Purato'sya shoḍaśānām vara-gaṇikānām dvi-bhūmikagṛihāni āli-dvayena—'in front of the temple he erected two rows of double-storied houses for sixteen female attendants.'

(Chebrolu inscrip. of Jaya, v. 46, *Ep. Ind.*, Vol. vi, pp. 40, 93.) (*See* under Raja-harmya.)

**SHODĀŚĀŚ(-S)RA**—A type of building which has sixteen-angular shape, one storey and one cupola.

(1) *Bṛihat-saṃhitā* (LVI, 28, *J. R. A. S.*, N. S., Vol. vi. p. 320, note 1 : *see* under PRĀSĀDA).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 29, 53 ; *see* under PRĀSĀDA).

(3) *Bhaviṣhya-Purāṇa* (Chap. CXXX, v. 25 ; *see* under PRĀSĀDA).

**SAKALA**—A site plan, an idol, a group of images of four deities including Īśvara.

(1) A site plan (*M.*, VII, 2, 51, 73 ; XII, 64 ; *see* PADA-VINYĀSA).

(2) An image or idol (*M.*, LXIV, 48).

(3) *Suprabhedāgama* (xxxiv, named Sakala-lakṣhaṇa-vidhi, 1, 2) :

Athātaḥ saṃpravakṣhyāmi sakalānām tu lakṣhaṇam |

Sarvāvayava-dṛīṣyatvāt pratimā tv-iti chochyate ||

Īśvarādi-chatur mūrttiḥ paṭhyate sakalām tv-iti ||

**SAKALIKARĀṆA**—The ceremony of making a joint offering of all things (with which a deity is worshipped), which generally consist of eight kinds of grains such as sesamum, barley, rice, etc., sandal paste, clarified butter, sugar and honey, etc.

**SATI-MANḌAPA**—A kind of pavilion where perhaps certain ceremonies used to be performed in connexion with the obsolete practice of burning alive a devoted wife with her dead husband, the temple of the goddess Sati who was the wife of Śiva and a daughter of Dakṣha.

Arbhakānām mukhālokaṃ maṇḍapam satī-maṇḍapam |

(*M.*, xxxiv, 41.)

**SATYA-KĀNTA**—A class of eight-storied buildings.

(*M.*, XLVI, 43-45 ; *see* under PRĀSĀDA.)

SATRA(-TTRA) (*cf.* CHHATRA, CHHATRI)—An alms-house, the modern dharma-śālā, a rest-house, a residence.

(1) Alms-house (Dewal Praśasti of Lalla the Chhinda, v. 20, *Ep. Ind.*, Vol. I, pp. 79, 83).

(2) Hall of charity (stone inscrip. at Vaghli in Kandesh, no. C, lines 4 12, *Ep. Ind.*, Vol. II, p. 226, 227).

(3) See Śrīdhara's Devapattana Praśasti (verse 10, *Ep. Ind.*, Vol. II, p. 440).

(4) Rest-house (Nilgund inscrip. of Taila II, line 30, *Ep. Ind.*, Vol. IV, pp. 207, 208).

(5) Chitrais satrālyair yasya pṛithivyām prathitha-yaśasaḥ |

Bubhukshu-bhikshu-sarṅghāta-prabhūta-pṛīti-hetubhiḥ ||

(Two pillar inscrip. at Amaravati, no. A, of Keta, II, v. 40, *Ep. Ind.*, Vol. VI, p. 152.)

(6) A feeding establishment :

Deva-bhogārthaṁ cha deva-kulebhyaḥ khaṇḍa-sphuṭitādi-nimittaiḥ  
gandha-dhūpa-pushpa-dīpa-naivedādy-upachārārthaṁ tapovana-  
sattrottarāsaṅga-dānādy-arthaṁ cha . . . |

(Cambay plates of Govinda IV, line 48, *Ep. Ind.*, Vol. VII, pp. 40-45.)

(7) Bilvapadrake parikalpita-sattra-bhoktṛiṅām yathā-prāpta-brāhmaṇādi-janānām trimśataḥ pratyaham upabhogāya . . . 'In order to feed daily thirty Brāhmaṇas or other men who happen to arrive (and) who use the rest-house established at Bilvapadraka.'—(Baloda plates of Tivaradeva, lines 26-27, *Ep. Ind.*, Vol. VII, pp. 105, 107.)

(8) A charitable dining-hall of a temple :

Śrī-sarvva-lokāśraya-jīna-bhavana-khyāta-satrārtham --' for the purpose of the renowned dining-hall of the holy and famous Jain temple called Sarvalokāśraya-Jīna-bhavana.'—(Kaluchumbarru Grant of Amma II, line 60, *Ep. Ind.*, Vol. VII, pp. 188, 191, 179.)

(9) Khaṇḍa-shpuṭa-vava-kṛtyopili-prapūjādi-sattra-siddhyartham |

'For the cost of repairs of breaks and cracks, offerings, worship, etc., and of an alm-house.'—(Maliyapundi Grant of Ammaraja II, line 54, *Ep. Ind.*, Vol. IX, pp. 54, 56.)

(10) Drākshārāme pāvane puṇya-bhājā puṇya-kshetre Pīṭhapuryyām cha yena |

Bhoktuṁ pṛityā pratyaham brāhmaṇānām ākalpānttānk alpitaṁ  
sattra-yugmam ||

'At holy-Drākshārāma and at the sacred place of Pīṭhapuri, this charitable one joyfully founded two sattras for Brāhmaṇas, in

order that they might daily enjoy their meals (there) till the end of the Kalpa.'—(Eastern Chalukya Grants, no. 39, a Grant of Vira-Choda, v. 33, *H. S. I. I.*, Vol. 1, pp. 56, 61; see also quotation no. 16 below.)

(11) 'The hiranya-garbha, brahmāṇḍa, and all the other great gifts prescribed in the Śāstras had he made,—wells, ponds, tanks, with satras from road to road, had he established—and temples of the gods he had made.'—(*Ep. Carnat.*, Vol. xii, Kunigal Taluq, no. 37; Transl., p. 38, para. 3.)

(12) 'Having allotted to the avasara-satra of the god śrī-hari-haradeva two shares of the village . . .'

· Satra—oblation, charity, asylum or alms-house, charitable dining hall; "avasara-satra" seems to mean an occasional satra.' Dr. Fleet.

But 'rest-house' as proposed to both resting and dining-hall would perhaps give better meaning.

(Sanskrit and Old Canarese inscrip. no. vi, *Ind. Ant.*, Vol. iv, p. 329, c. 1, line 3 f., and footnote.)

(13) Sa prāsādām achīkarad divishadām Kedāra-devasya cha khyātasyottara-mānasasya khananam sattraṁ tathā chākshaye |

'He caused to be built a temple of the inhabitants of heaven called . . . and of the god Kedāra; he likewise had the famous Uttara-mānasa (tank) dug, and (established) a hall of charity, to last for ever.'—(Gaya inscrip. of Yakshapala, v. 12, *Ind. Ant.*, Vol. xvi, pp. 65, 66.)

(14) 'A grant of land for a satra for feeding twelve Brāhmins in front of the maṭha on the bank of the Tungabhadra.'—(*Ep. Carnat.*, Vol. vi, Koppa Taluq, no. 32; Transl., p. 81; Roman Text, p. 176–177.)

(15) He halting at Mārasinga's Behūr, constructed there the Birudasarvvajña-gaṭṭa and other tanks: and to provide a satra for food for the students in the maṭha of the god Mallikārjuna there . . . made a grant of land.'—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 19; Transl., p. 43; Roman Text, p. 98.)

(16) Drākshārāme pāvane puṇya-bhājā puṇya-kshetre Piṭhapuryyāṁ cha yena . . . kalpitam sattra-yugam (*cf.* no. 10 above).

'At the pure Drākshārāma and at Piṭhapurī, a place of sanctity, he established two sattras.'—(Chellur Grant of Vira-Choladeva, lines 97–98, *Ind. Ant.*, Vol. xix, pp. 432, 435.)

ŚATTANĠA (same as ŚATANĠA)—An arm-chair, sofa, sofa with arm to it.)

(*Mahāvagga*, v. 10, 2.)

SATRA-MANḌAPA—A type of pavilion, the alms-house of a temple.

Vāpi-nirgamane yena pūrvataḥ satra-maṇḍapam ।

(*Garuḍa-Purāṇa*, Chap. XLVI, v. 14.)

SATRĀVĀSA-MATHA—A monastery, a free rest-house.

Chatushkoṇe tapasvināṁ satrāvāsa-maṭhaṁ bhavet ।

(*M.*, xxxii, 89.)

SADANA—A temple, a seat, a sacrificial hall, a house, a mansion, a palace, the abode of the god of death (Yama).

(1) A temple (Dabhoi inscrip. v. III, *Ep. Ind.*, Vol. I, p. 31).

(2) Sura-sadana (Dewal Praśasti of Lalla, v. 20, *Ep. Ind.*, Vol. I, p. 79).

(3) Sadanaṁ atula-nāthasyoddhṛitaṁ yena jirṇṇaṁ ।

‘By whom the (old) temple of Atula-nātha was repaired.’

(An Abu inscrip. of the reign of Bhimadeva II, v. 10, *Ind. Ant.*, Vol. XI, pp. 221, 222.)

(4) Sārasvataṁ kriḍā-ketanam etad atra vidadhe ।

Sārasvataṁ sadanaṁ akshayam etad astu ।

(Sanskrit Grants and inscrip. no. 1, vv. 33, 34, *Ind. Ant.*, Vol. XI, pp. 103, 106.)

SADAS—A seat probably raised for sadasya or councillors at a sacrifice.

(*Śat. Brā.*, x, 4, 4, 9.)

SADĀŚIVA—A class of four-storeyed buildings.

(*M.*, xxii, 25-33 ; see under PRĀSĀDA.)

SADMAN—A temple, a seat, an altar, an abode, a dwelling, a house.

Chakre nava-niviḍa-viśale sadmani Śūlapāṇe—‘built a new solid large temple of Śūla-pāṇi.’

Śambhoḥ sadamani stambha-mālāṁ . . . vyātātāna—‘erected a row of pillars in the temple of Śambhu.’—(An Abu inscrip. of the reign of Bhimadeva II, vv. 10, 12, *Ind. Ant.*, Vol. XI, pp. 221, 222.)

SANDHI—A joint, a connexion, a combination, a junction.

Eka-śālānu-sandhiś cha dvi-śālā chaika-sandhikam ।

Tri-śālā cha dvi-sandhiḥ syāch chatuḥ-sandhis chatuḥ mukham ।

Shaṭ-sandhiḥ sapta-sālā cha bahu-sandhi(r) daśālayam ।

(*M.*, xxxv, 73-74.)

**SANDHI-KARMAN**—The joinery, the framing or joining of wood for the internal and external finishings of houses ; thus the covering and lining of rough walls, the covering of rough timbers, the manufacture of doors, shutters, sashes, stairs, and the like, are classed under the head of joinery.

(See Gwilt, *Encycl. of Arch.*, p. 1214.)

*Mānasāra* (Chap. xvii, 2-225), named Sandhi-karman :

The definition :

Harmyāṇām dāru-samyogaṁ sandhi-karma (m)udīritam । (2).

Various kinds of joinery are described under the following names :

Malla made with two pieces of wood, Brahma-rāja with three or four pieces, Veṇu-parvan with five pieces, Pūga-parvan with six pieces, Deva with seven pieces, Parvan with eight pieces, and Daṇḍa with more than eight pieces of wood and other materials (line 18 f.).

Forms of the joinery are described under the titles Nandyāvarta and Svastika (lines 59-60), etc., see details (lines 18-58, 61-225).

**SANDHI-BANDHA**—A bond of union, a material that makes two bodies stick together, cement, mortar.

Saṁsthāpyāpi na tasya tushṭir abhavad, yāvad Bhavāni-grīhaṁ suśliṣṭā-mala-sandhi-bandha-ghaṭitam ghaṭṭā-ninādojvalam ।

Not satisfied with the erection (of this image only, the pious man) caused to be built a shrine of Bhavāni, which was joined with a very adhesive and bright cement, resplendent with the sounds of bells,

(Benares inscrip. of Pantha, v. 5, *Ep. Ind.*, Vol. ix, pp. 61-62.)

**SAPTA-TALA** (see TALA)—The seventh storey, seven-storeyed buildings.

Etat sapta-talaṁ proktaṁ rājūṇāṁ āvāsa-jogyaklam ।

(*Kāṁikāgama*, xxxv, 84.)

The seven-storeyed buildings are described in a separate chapter in the *Mānasāra*.

Description of the seventh storey (*M.*, xxv, 2-23, 32-39), the eight classes (*ibid.*, 3-31), see under PRĀSĀDA.

**SAPTA-TĀLA** (see TĀLA-MĀNA)—A system of measurement in accordance with which the whole body is seven times the face inclusive of head.

(*Sukraniti*, Chap. iv, sect. iv, ed. Jivananda Vidyāsāgara, p. 359; see details under TĀLA.)

**SAPTA-BHŪMI-(KA)** (*see* SAPTA-TALA)—The seventh storey, seven-storeyed buildings.

Rāja-kanyām . . . sapta-bhūmika-prāsāda-prānta-gatām ।

(*Pañchatantra*, ed. Bombay, I, p. 33.)

**SAPTA-SĀLĀ**—A seven-fold wall.

Madhya-sūtram tu vāme tu harmya-dvāraṃ prakalpayet ।

Tad-bahiḥ parito-deśe sapta-sālāṃ prakalpayet ।

Narāvāsārtha-rathyā cha prākāra-dvaya-maṇḍitam ।

(*M.*, xxxi, 81-83.)

**SABHĀ**—A type of building, an edifice, a public hall, an assembly room, a council chamber, a society room in a private dwelling house. (*A.-V.*, xix, 55, 6; *Taitt. Sam.*, iii, 4, 8, 6, *Taitt. Br.*, I, I, 10, 3; *Chhānd-Upanishad*, viii, 14). The special features in Vedic times were their pillars and fire-altars. There must have been suitable structural arrangements for the transaction of judicial, commercial and political business, and for the reception of 'courtly' well-born wealthy persons and kings, and for the performance of gambling, merriment, social intercourse, debates and contests (*Vedic India*, Vol. II, p. 426-427).

(1) A class of buildings :

Prāsāda-maṇḍapaṃ chaiva sabhā-sālā-prapārī tathā ।

(A) raṅgam iti chaitāni harmyam uktaṃ purāṇaniḥ ।

(*M.*, iii, 7-8.)

Śikhare chāvṛite pare sabhā-maṇḍapa-gopure ।

(*M.*, xviii, 200.)

A public hall :

Maṇḍapaṃ sabhāṃ vāpi grāma-yogyam yathā-dīśi ।

Nagare cha yathākāraṃ dvi-guṇātyarthakāyatam ।

(*M.*, xxxiv, 562-563.)

Bhūdhare chāsūre vapi sabhā-sthānaṃ prakalpayet ।

(*M.*, viii, 34.)

(2) A council chamber :

Tato vichintya manasā loka-nāthaḥ Prajāpatiḥ ।

Chodayamāsa tvaṃ kṛishṇaḥ sabhā vai kriyatām iti ॥

Yadi tvaṃ kartukāmo'si priyaṃ śilpa-vatām vara ।

Dharmma-rājasya daiteya yādṛīśim iha manyase ॥

Yāṃ kṛitām nānukurvanti mānavāḥ prekshyādhisthitāḥ ।

Manushya-loke sakale tādṛīśim kuru vai sabhāṃ ॥

Yatra divyān abhiprāyān paśyema hi kṛitāms tvayā |  
 Āsurān mānushāmś chaiva sabbhām tām kuru vai Maya ||  
 Pratigrihya tu tad vākyaṁ samprahrishṭo Mayas tadā |  
 Vimāna-pratimām chakre Pāṇḍavasya śubhām sabbhām ||

The penultimate verse is explained by the commentator Nilakaṇṭha :

Āsurān mānushān ity upalakṣhaṇaṁ deva-gaṁdharvādinām apy  
 abhiprāyān lepa-chitre lekhyā-chitre cha chaturdaśa-bhuvanām-  
 tarastha-tat-tāj-jātiyā-svābhāvika-nānā-vidha-lilā-pradarśanena  
 manovṛittih paśyema yad-darśanena brahmāmṛdāntara-varti-  
 sarvaṁ vastu-jātaṁ drishṭa-prāyaṁ bhavatīty arthaḥ |

(*Mahābhārata*, Sabhā-parvan, Chap. I, vv. 9-13.)

See also the description of the Indra-sabhā (*ibid.*, Chap. vii), Yama-sabhā (Chap. viii), Varuṇa-sabhā (Chap. ix), Kubera-sabhā (Chap. x), and Brahma-sabhā (Chap. xi).

Sabhā . . . divyā hema-mayair uchchaiḥ prāsādair upaśobhitā |

(*Ibid.*, II, 10, 3.)

- (3) Chatur-bhāga-dvi-bhāgena pṛishṭhāvāsa-sabhām nayet ||  
 Agra kūṭa-dvayor madhye śālāḥ pṛishṭha-sabhā-yathā ||  
 Pṛishṭhāvāsa-sabhā tad-vad anyat sarvam adhas-tale ||

(*Kāmikāgama*, xxxv, 73, 74, 76.)

Definition :

Mūla-kūṭa-samāyuktā vāṇa-kūṭa-samanvitā ||

Kachchha (=keśa)-griha-samākuktā sabheti parikirtitā ||

(*Ibid.*, xxxv, 4, 95.)

Brahma-sthāne sabbhādīni kalpayed vidhinā budhaḥ ||

(*Ibid.*, xxviii, 15.)

(4) 'Mārtaṇḍa-varmā, the king of Keraḷa, desirous of extensive prosperity, fame and long life, built the sabbhā of Śambhu (Śiva) a Śuchindram.'

Sthāne māni-śuchindre samakuruta sabbhām Kerala-kṣhmā-patindraḥ |—  
 (Inscrip. in the Pagodas of Tirukurunguḍi, in Tinnevely, and of Śuchindram  
 in South Travancore, *Ind. Ant.*, Vol. II, p. 361, c. 2 ; v. 1, p. 362, para 1.)

(5) 'The word (Sabhā) denotes also (i.e. other than a regular assembly or meeting) a 'hall' or a 'house.' Dr. Bhandarkar.—(*Ind. Ant.*, Vol. XII, p. 145, c. 2, line 9 f.)

(6) Śrī-raṅga-kāñchana-sabhā yathā-puram abhāsayat |

'The regilded (central shrine of the temple at) Śrīraṅgam and the golden hall (at Chidambaram).—(Ariyur Plates of Virupakṣha, lines 21-22, *Ind. Ant.*, Vol. xxxviii, pp. 14, 12 ; para 4, line 6.)

SABHĀ-MĀLIKĀ—A class of buildings.

(*Kāṃikāgama*, XLV; see under 'MĀLIKĀ.)

SAMA (see SAMUDGA) A type of rectangular building.

(*Agni-Purāṇa*, Chap. XIV, vv. 16-17; see under PRĀSĀDA.)

SAMA-BHAṄGA (see BHAṄGA)—A pose, in this type the right and left of the figure are disposed symmetrically, the figure seated or standing being poised firmly on both legs without inclining to right or left.

SAMITI—Assembly houses; see SABHĀ in which senses it is used in *Atharva-veda* (XV, 9, 2, 3).

SAMUDGA—A type of round buildings.

Cf. Vṛittah Samudga-nāmā |

(1) *Bṛihat-saṃhitā* (Chap. LVI, 23, *J. R. A. S.*, N. S., Vol. VI, p. 319; see under PRĀSĀDA).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 38, 53; see under PRĀSĀDA).

(3) *Bhaviṣhya-Purāṇa* (Chap. CXXX, vv. 30, 24; see under PRĀSĀDA).

SAMUDRA—A type of building.

(1) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 38, 53; see under PRĀSĀDA).

(2) *Bhaviṣhya-Purāṇa* (Chap. CXXX, v. 24; see under PRĀSĀDA).

SARORUHA—A type of building, a moulding.

A moulding of the pedestal (*M.*, XXIII, 76, etc.).

See PADMA and compare the lists of mouldings under UPARĪṬHA and ADHISṬHĀNA.

A class of six-storeyed buildings (*M.*, XXIV, 47; see under PRĀSĀDA).

SARVA-KALYĀṆA—A class of buildings.

(*Kāṃikāgama*, XLV, 42-49; see under MĀLIKĀ.)

SARVA-KĀMIKA (see UTSEDHA)—Also called 'dhanada', a height which is  $1\frac{3}{4}$  of the breadth.

(See *M.*, XXXV, 22-26, and cf. *Kāṃikāgama*, I, 24-28, under ABHUTA.)

SARVATO-BHADRA—A type of building, pavilion, hall, entablature, window, phallus; a joinery, a four-fold image one on each side of a four-faced column; a village, a town, having a surrounding road and entrances on four sides; a house furnished with uninterupted and surrounding terraces on every side.



(1) Apratishiddhāindaṁ samantato vāstu sarvato-bhadram ।

Nṛīpa-vibudha-samūhānām kāryaṁ dvāraīś caturbhir api ॥

‘An edifice with uninterrupted terraces on every side is termed Sarvato-bhadra (i.e., goodly on every side); such a one is fit for kings and gods, and ought to have four entrances.

(*Bṛihat-saṁhitā*, LIII, 31, *J. R. A. S.*, N. S., Vol. VI, p. 285.)

‘Sarvato-bhadra is the name of a kind of building which has four ṣṭrances, many spires or turrets (śikhara), many beautiful dormer windows and five storeys, and is 26 cubits broad.’

(*Ibid.*, LVI, 27, *J. R. A. S.*, N. S., Vol. VI, p. 320.)

(2) *Matsya-Purāna* (Chap. CCLXIX, vv. 29, 34, 35, 48, 53; see under PRĀSĀDA).

(3) *Bhaviṣya-Purāna* (Chap. CXXX, v. 34; see under PRĀSĀDA).

A type of quadrangular building :

(4) *Āgni-Purāna* (Chap. CIV, vv. 14-15; see under PRĀSĀDA).

(5) *Garuḍa-Purāna* (Chap. XLVII, vv. 24-25; see under PRĀSĀDA).

(6) Sarvato-bhadram aṣṭāsyam—the Sarvato-bhadra house (śālā) has eight faces.—(*Kāṁikāgama*, XXXV, 88.)

An entablature (*ibid.*, LIV, 8).

(7) A class of villages (*M.*, IX, 2, 126 f.).

A type of prastara or entablature (*M.*, XVI, 185).

A kind of joinery (*M.*, XVII, 53).

A class of maṇḍapa or pavilions (*M.*, XXXIV, 555).

A type of śālā or mansion (*M.*, XXXV, 4).

A class of windows (*M.*, XXXIII, 583).

A kind of phallus (*M.*, LI, 114).

(8) Sarvato-bhadra-devāīaya—according to Varāhamihira (*Bṛihat-saṁhitā*, LVI, 27) it means a temple with four doors and many spires, i.e., such a one which looks equally pleasing from all sides.—*Ep. Ind.*, Vol. I, p. 382, note 50.)

(9) Sarvato-bhadra-chatur-mukha ratna-traya-rūpa-tri-bhuvana-tilaka-Jina-chaityālaya vanu ।

‘The Tribhuvana Jina chaityālaya temple . . . (which is) auspicious on every side, has four faces (and) is the embodiment of the three jewels (of the Jainas).’—(Karkala inscrip. of Bhairava II, line 17, *Ep. Ind.*, Vol. VIII, pp. 132, 135.)

(10) Nayana-mano-haraḥ Sarvato-bhadraḥ ।

‘Apparently the name of a hall in the first storey of the cave temple. (The Pallava inscrip. of the seven Pagodas, no. 13, *Ep. Ind.*, Vol. X, p. 7.)

(11) Sarvato-bhadra-pratimā—'literally an image lovely on all sides, is apparently a technical term for a "four-fold image," one being carved on each side of a four-faced column.'—(Jaina Inscrip. from Mathura, no. 11, *Ep. Ind.*, Vol. 1, p. 382, footnotes 50, 51.)

SAHĀYA-DURGA—A kind of fort.

(See details under DURGA.)

SAHASRA-LIŅGA—A thousand-phalli, a group of phalli of Śiva.

'Set up on the colonnade to the west a row of liᅅgas forming the thousand liᅅgas.'—(*Ep. Carnat.*, Vol. iv, Chamrajnagar Taluq, no. 86 ; Transl. p. 11, line 9 ; Roman Text, p. 18, line 14.)

SAMKIRᅅA—A type of building, houses built with a certain number of materials, a joinery.

Buildings made of more than two materials (*M.*, xviii, 139, etc.. see under VIMĀNA and PRĀSĀDA).

A class of buildings (*Kāᅁikāgama*, xlv, 62 ; see under MĀLIKĀ).

A kind of joinery (*M.*, xvii, 140, 146).

SAMGAVINĪ—A cattle-shed, an open shed for milking cows.

SAMGRAHA—A combination of mouldings at the bottom of a column.

Ekāᅁśaᅁ pāᅁukaᅁ kuryāt paᅁcha-bhāgaᅁ tu saᅁgrahaᅁ |

(*M.*, xv, 179, etc.)

For its synonyms see *M.*, xvi, 51-52.

SAMGRAHAᅅA—A fortress to defend a group of ten villages.

Daśa-grāmi-saᅁgrahaᅅa saᅁgrahaᅅaᅁ sthāpayet |

(*Kauᅁīlya-Artha-śāstra*, Chap. xxii, p. 46.)

SAMGHĀRĀMA (see VIHĀRA)—Originally the assembly place of the Saᅁgha or Buddhist monks, later in the time of the Nālandā University, a college comprising lecture halls, students' hostel and chapel, while the *viᅁhāra* or original monastery implied the residential quarters of the monks or professors, residences of monks or hermits, the monastery.

(Vide Taxila plate of Patika, line 3, *Ep. Ind.*, Vol. iv, pp. 55, 56.)

SAMCHĀRA—An entrance, a door, a gate, an outlet, a military post, a tower or circuit on the top of the surrounding wall of a village or town.

(*M.*, x, 109, etc.)

**SAMCHĪTA**—A class of buildings in which the breadth is the unit of measurement, the temples in which the idol is in the sitting posture.

(*M.*, xix, 7-11 ; xxx, 103-174 ; see under APASAMCHITA.)

Pratyekaṁ tri-vidhaṁ proktaṁ saṁchitaṁ chāpy-asamchitam ।

Upa-samchitam ity-evam . . . . ।

(*Kārikāgama*, xlv, 6-7.)

**SAMPURṆA**—A class of buildings.

(*Kārikāgama*, xlv, 29-30 ; see under MĀLIKĀ.)

**SAMVIDDHA**—A fortified city.

(*M.*, x, 41 ; see under NAGARA.)

*Cf.* Visiting 'the gramas, nagaras, khetas, kharvaṭas, maḍambas, pattanas, droṇamukhas and saṁbāhanas—the cities of the elephants at the cardinal points.'—(*Ep. Garnat.*, Vol. vii, Shikarpur Taluq, no. 118 ; *Transl.*, p. 86, last para., line 14.)

**SAMSAD**—An assembly hall (built within a wedding pavilion).

*Cf.* Ratha-rathi-yutā hy āsan kṛitrimā hy akṛitopamaḥ ।

Sarveśhāṁ mohanārthāya tathā cha saṁsadaḥ kṛitāḥ ॥

(*Skanda-Purāṇa*, Māheśvara-khaṇḍa-prathma, Chap. xxiv, v. 13.)

**SAMSTHĀNA**—The arrangement, laying-out, plans of buildings and other objects.

(1) Tri-koṇaṁ vṛittam ardhenduṁ ashṭa-koṇaṁ dvir-ashṭakam ।

Chatush-koṇaṁ tu kartavyaṁ saṁsthānaṁ maṇḍapasya tu ॥

The plan of a maṇḍapa should be made triangular, quadrangular, octagonal, sixteen-angular, half moon-shaped, and circular.

(*Matsya-Purāṇa*, Chap. cclxx, vv. 15-16.)

(2) Tri-koṇaṁ padmam arddhendūṁ chatush-koṇaṁ dvir-ashṭakam ।

Yatra tatra vidhātavyaṁ saṁsthānaṁ maṇḍapasya tu ॥

(*Garuḍa-Purāṇa*, Chap. xlvii, vv. 32-33.)

**SĀRA**—A class of buildings.

(*Kārikāgama*, xlv, 60 ; see under MĀLIKĀ.)

**SĀLA(-LĀ)**—A wall, a rampart, an apartment, a house.

(1) Udyānā-mra-vanopctāṁ mahatīm sāla-mekhalām ।

Commentary : sālaḥ prakāraḥ (enclosure wall), sāla-vanaṁ vā ।

(*Rāmāyaṇa*, I, 5-12.)

- (2) Antare śeṣha-bhāgāṁś tu hitvā madhye tu sālakam ||  
Sāla-gopurayos tuṅgastv-adhikaś chāpi mūlataḥ ||  
Agrato'lindakopetam aṭṭālaṁ sālakāntare ||

(*Kāṁikāgama*, xxxv, 112A, 124, 126.,

- (3) Sālāntaṁ vedikordhve tu yuddhārthaṁ kalpayet sudhiḥ |

(*M.*, ix, 364.

See also *M.*, xxxi, 36, 37 (pañcha-sālā), 39 (Jāti-sālā), 40, 41, 44, 48, 52, etc.

Sāla(-ā)-janma-samaṁ chaiva dhāmna-janma-samaṁ tu vā |  
Sālāṅgādhikaṁ hīnaṁ chech chorair arthaṁ vinaśyate |

(*M.*, lxxix, 42, 45.)

- (4) Kanakojvala-sāla-raśmi-jālaiḥ parikhāmbhu . . . prati-bhimbitaiḥ |  
'Through the mass of the rays which issue from its golden walls and which are reflected in the water of its (Vijayanagara's) moat.'—(Vijayanagara inscrip. of Devaraja II, lines 7-8, *H. S. I. I.*, Vol. 1, no. 153, pp. 162-164.)

(5) Antaraṁ sadma-sālam—'the inner wall of the shrine.'—(Ranganatha inscrip. of Sundara-pandya, v. 22, *Ep. Ind.*, Vol. III, pp. 13, 16.)

(6) Sphaṭika-sālā-nibhaṁ babandha—'like a wall of crystal.'—(Two inscrip. of Tammusiddhi, no. A, Tiruvālaṅgāḍu inscrip., v. 16, *Ep. Ind.* Vol. VII, pp. 124, 125.)

- (7) Durllāṅgha-dushkara-vibheda-viśāla-sālā-durgādha-dustara-bṛihat-parikhā-paritā |

'(The city of Kāñchi) whose large rampart was insurmountable and hard to be breached (and) which was surrounded by a great moat, unfathomable and hard to be crossed.'—(Gadval Plates of Vikramāditya I, v. 6, line 21, *Ep. Ind.*, Vol. x, pp. 103, 105.)

- (7) Śrīmān esho'rkka-kīrttir nṛīpa iva vilasat sālā-sopānakādyaiḥ |

'That honourable one like a king of sun-like glory (crected) splendid walls and stairs.'—(*Ep. Carnat.*, Vol. II, no. 105 ; Roman Text, p. 97, line 14 ; Transl., p. 164, para. 6.)

**SIDDHA**—A type of storeyed building, a class of divine beings.

A class of two-storeyed buildings (*M.*, xx, 94, 16-18 ; see under PRASĀDA).

Semi-divine beings, their images are described (*M.*, lv, 88 f.).

**SIDDHĀRTHA**—A type of building furnished with two halls.

Siddhārtham apara-yāmye yama-sūryaṁ paśchimottare śāle |

A house with only a western and southern hall is termed Siddhārtha.'

(*Bṛihat-saṁhita*, LII, 39, *J. R. A. S.*, N. S., Vol. vi, p. 286.)

SINDHUKA—A class of buildings.

(*Kāṃikāgama*, XLV, 23-28; see under MĀLIKĀ.)

SI(ŚI)LĀ-VAṬA—A stone mason.

‘Sūdradhāra-Āsalena bāndhitā tathā silāvata-jāhaḍena ghaṭitā |

‘The step-well was constructed by the architect Āsala and (the stones were) worked and shaped by the mason Jāhaḍa.—(*Manglan stone inscrip.*, lines 13-14, *Ind. Ant.*, Vol. XL, p. 88.)

SIMHA—A type of pavilion, a class of oval buildings, a riding animal (lion) of gods.

A maṇḍapa or pavilion with sixteen pillars (*Matsya-Purāṇa*, Chap. 2CLXX, v. 13; see under MAṆḌAPA).

Simha is the name of a kind of one-storeyed building which is dodecagonal in plan, covered by lions (? *siṃhākṛānta*) and eight cubits wide :

(1) *Bṛihat-saṃhitā* (Chap. XLV, 28, *J. R. A. S.*, N. S., Vol. VI, p. 329).

(2) See quotation of the commentary from Kāśyapa, which is more explicit.

Siṃhaḥ siṃhaiḥ saṃākṛāntaḥ koṇair dvā-daśabhir yutaḥ |

Vishkambhād aṣṭa-hastaḥ syād ekā tasya cha bhūmikā ||

(3) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 29, 36, 40, 49, 53; see under PRĀSĀDA).

(4) *Bhaviṣhya-Purāṇa* (Chap. CXXX, v. 35; see under PRĀSĀDA).

A kind of oval building :

(5) *Garuḍa-Purāṇa* (Chap. XLVII, v. 29-30; see under PRĀSĀDA).

(6) The lion, a riding animal of gods.

Devānām vāhanam siṃham (*M.*, LXIII, 1), the sculptural description of his image (*ibid.*, 2-46).

SIMHĀSANA (*cf.* ĀSANA)—A throne or seat, marked with a lion.

(1) Siṃha-mudrīta-manoharāsanam |

Kesari-lāñchhitam tv-atha manoharāsanam .

(*M.*, XLV, 204, 206.)

*Mānasāra* (Chap. XLV, 1-112, named Siṃhāsana) :

The lion seat or throne is made for the use of deities and kings (line 1). These thrones are first divided into four classes (lines 4-8)—the Prathama (first) throne is stated to be fit for the first coronation, the Maṅgala throne for the Maṅgala-coronation, the Vira throne for the Vira-coronation, and the Vijaya throne for the Vijaya-coronation. It should be noted that these four thrones are used for the four stages of coronation of the same king.—(*M.*, XLIX, 166, etc.)

Concerning deities, the Nityārchana throne is used for daily worship, Viśeṣha-throne on some special occasions ; the Nityotsava-throne, and the Viśeṣotsava-throne are used for ordinary and special festivals respectively (lines 9-11).

But the thrones for both deities and kings, for all purposes, are divided into ten kinds (*see* below). An account of the general plan as well as of the measurement of the various parts of them is given in detail (lines 17-213). They are technically called—Padmāsana, Padma-keśara, Padma-bhadra, Śrī-bhadra, Śrī-viśāla, Śrī-mukha, Bhadrāsana, Padma-bandha, and Pāda-bandha (lines 12-16).

Of the ten kinds, the first, Padmāsana, is used as the throne for Śiva or Viṣṇu (121) ; the Padma-bhadra for the king Adhirāja (i.e., Chakravartin or emperor) (line 143) ; the Śrī-bhadra is fit for the kings Adhirāja and Narendra for all purposes (line 153) ; the Śrī-viśāla is fit for the kings Pārshṇika and Narendra (171) ; the Śrī-bandha is for the kings Pārshṇika and Paṭṭa-dhara (line 174) ; the Śrī-mukha for the king Maṇḍaleśa (line 177) ; the Bhadrāsana for the king Paṭṭa-bhāj (line 179) ; the Padma-bandha for the king Prāhāraka (line 182) ; and the Pāda-bandha throne is fit for the king Astra-grāha (line 190).

The lion-legs are, however, not attached to the throne of Astra-grāha (line 191). Thrones of all other petty kings of the Vaiśya and the Śūdra castes are stated to be furnished with pedestals instead, and are made four-cornered square (lines 192-193). But thrones of all other kings are marked with lions and furnished with six legs (line 196). These thrones are stated to be made facing the east (prāṇmukha) (line 197).

Of the thrones of deities, the Nirīkṣhaṇa (eyes, windows) is made on the four sides (line 198).

Various kinds of thrones are thus described but the most beautiful one according to one's choice should be used :

Evaṃ cha vividhaṃ proktaṃ yan mānoramya(m) mānayet । (200)

(2) ' This is the mighty lion-throne (Sīmḥāsana) on which sat the glorious powerful king, in whose arm is strength, the Lord Emperor Kālīṅga Niśāṅka Kaṅkeśwara.'

' Sīmḥāsana—on the lion 1, 2, 3, 4, 5, 6, 7, 8 (pillars). Lion throne, royal throne, throne . . . In this case there was actually a large lion, whose fine proportions remind one of the Assyrian bulls and which formed the support, or one of the supports of the royal seat. A freize of lions runs round the building.' Rhys Davids.

(Inscrip. at the Audience Hall of Parākrama Bāhu, Pulastipur, Ceylon, *Ind. Ant.*, Vol. II, p. 247, c. 2, para. 4 ; p. 249, c. 2.)

(3) 'The other shrine contains a fine large figure of Buddha, seated on a sirmhāsana or throne with recumbent lions at the base, and elephants and other carved accessories at the sides.'—(Monumental Antiquities, N.-W. Provinces and Oudh, *Arch. Surv.*, New Imp. Series, Vol. II, Agra Division, p. 95, no. 23, line 6.)

(4) Seats are referred to under various names in Buddhist literature : Āsandi (large couches, *Chullavagga*, VI, 14, 1; *Mahāvagga*, v. 10, 3); couches covered with canopy (*Chullavagga*, VI, 14-1; *Mahāvagga*, v. 10-3); Āsandaka (rectangular chairs), sattango (arm-chair, sofa); bhaddapīṭham (state-chair), pīṭhikā (cushioned chair), same on a pedestal (etaka-padaka-pīṭham), same with many legs (Āmalaka-vaṇṭika-pīṭham), cane-bottomed chair (kocchhom), leaning board (phalakam).

**SUKA(-KHA)-NĀSIKĀ**—A small room in front of the idol in a temple.

(1) 'The great minister Kampapṇa for the repair of the roof stones in the Sukanāsike (a small room in front of the idol) of the god Chenna-keśava set up four pillars with capitals and repaired them.'—(*Ep. Carnat.*, Vol. v, Part 1, Belur Taluq, no. 52; *Transl.*, p. 55, note 1; *Roman Text*, p. 126.)

(2) 'It (Malleśvara temple at Hulikal) faces north and consists of a garbha-griha, an open sukanāsi, a navaraṅga, and a porch. The garbha-griha, sukanāsi, and porch are all of the same dimensions, being about 4½ feet square, while the navaraṅga measures 16 feet by 14 feet.'

'The Sukanāsi doorway has on its lintel a figure of . . .

The garbha-griha and sukanāsi have likewise ceilings of the same kind, but that of the porch is the largest and the best of all.'

(*Mysore Arch. Report*, 1915-16, p. 4, para. 10; see also p. 5, para. 12; p. 7, para. 13; p. 15, para. 19.)

(3) 'The outer walls of the garbha-griha and sukanāsi have besides pilasters and turrets . . . '—(*Ibid.*, p. 21, para. 27).

**SUKSHETRA**—An edifice, a type of building.

Prāk-śālayā viyuktaṁ Sukshetram vṛddhidam vāstu |

An edifice 'without an eastern hall is named Sukshetra and brings prosperity.'—(*Bṛihat-saṁhitā*, LII, 37; see *J. R. A. S.*, N. S., Vol. VI, p. 286.)

**SUKHĀṄGA**—A type of pavilion, a rest-house.

A kind of pavilion used as a rest-house :

Sukhāṅgākhyam iti proktaṁ satra-yogyam tu maṇḍapam |

(*M.*, XXXIV, 272; see under MAṆḌAPA.)

**SUKHĀLAYA**—A pleasure-house, a type of storeyed buildings.

A class of three-storeyed buildings (*M.*, XXI, 22-30; see under PRĀSĀDA).

**SUGRIVA**—An object having a beautiful neck, a type of pavilion.

A pavilion with twenty-four pillars—(*Matsya-Purāṇa*, Chap. CCLXX, v. 13; see under MAṆḌAPA).

**SUCHIYA**—Cross-bar in a Buddhist rail.

(*Mahāsudassana-sutta*, 1, 5, 9; compare *Chullavagga*, vi, 3, 3.)

**SUDHĀ**—Stucco, one of the building materials, also used for plaster, mortar, whitewash.

(1) See Ratnapura inscrip., A.D., 1114 of Jajalladeva, v. 16, *Ep. Ind.*, Vol. 1, pp. 35-38.

(2) See Dewal Praśasti of Lalla the Chhinda, v. 28, *Ep. Ind.*, Vol. 1, pp. 80, 84.

(3) See *Mānasāra* under ĀBHĀSA.

**SUNDARA**—A beautiful object, a type of storeyed buildings.

A class of six-storeyed buildings. (*M.*, XXIV, 15; see under PRĀSĀDA.)

**SUPRATI(-I)KĀNTA**—A type of building, a kind of site-plan.

A kind of prakāra or enclosure buildings—(*M.*, XXXI, 24; see PARIVĀRA and PRĀKĀRA.)

A class of nine-storeyed buildings—(*M.*, XXVII, 23-36; see under PRĀSĀDA).

A site plan in which the whole area is divided into 484 equal squares.—(*M.*, VII, 30-31; see under PADA-VINYĀSA.)

**SUBHADRA**—A type of pavilion, buildings furnished with a beautiful front porch.

A pavilion with twelve pillars—(*Matsya-Purāṇa*, Chap. CCLXX, v. 14; see under MAṆḌAPA.)

**SUBHŪSHANA**—A well decorated house for the use of a married couple, a type of pavilion where a ceremony is performed on a wife's perceiving the first signs of conception.

Subhūshaṅkhyam viprāṇam yogyam puṁsavanārthakam |

(*M.*, XXXIV, 354; see under MAṆḌAPA.)



**SUMAṄGALI**—A kind of ornament.

An ornament for the images of female deities.—(*M.*, LIV, 49, 95 ; see under BHUṢHAṆA.)

**SURATA**—A type of pavilion.

A pavilion with sixty-pillars.—(*Matsya-Purāna*, Chap. COLXX, v. 7 ; see under MAṆḌAPA.)

**SUŚLIṢṬA**—A type of pavilion.

A pavilion with thirty-six pillars.—(*Matsya-Purāna*, Chap. COLXX, v. 11 ; see under MAṆḌAPA.)

**SUSHIRA**—A hole, a hollow, an aperture, a cavity.

(1) Prāg-grivaḥ-pañcha-bhāgena nishkāsa(śa)s tasya chochyate ।  
Kārayet sushiram tad-vat prākārasya tri-bhāgataḥ ॥

(*Matsya-Purāna*, Chap. COLXIX, v. 24.)

(2) Sushiram bhāga-vistīrṇam bhittayed bhāg-vistarāt ।

(*Agni-Purāna*, Chap. CIV, v. 3.)

(3) Dvāra-vat pīṭha-madhye tu śeṣam sushirakam bhavet ।

(*Garuḍa-Purāna*, Chap. XLVII, v. 16.)

(4) See *M.*, LVX, 83, LXVII, 15, etc.

**SUSAMHITA**—A site plan in which the whole area is divided into 400 equal squares.

(*M.*, VII, 28–29, also XXXI, 18, etc. ; see under PADA-VINYĀSA.)

**SŪ(-SU)-(T)ĀLAYA**—An enclosure, a cloister, a covered arcade forming part of a monastic or collegiate establishment, an enclosed place of religious retirement, a Jain monastery.

*Cf. Ep. Carnat.*, Vol. II, nos. 59, 75, 76, 78, 85 ; Introduction, p. 37, last para., line 3 ; Roman text, p. 57, line 27, pp. 62, 70 ; Transl., pp. 147, 151, 156 :

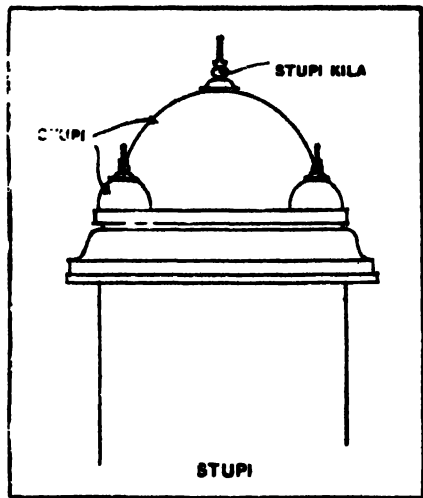
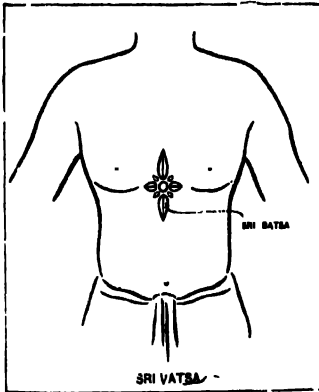
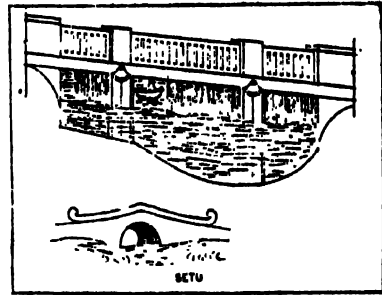
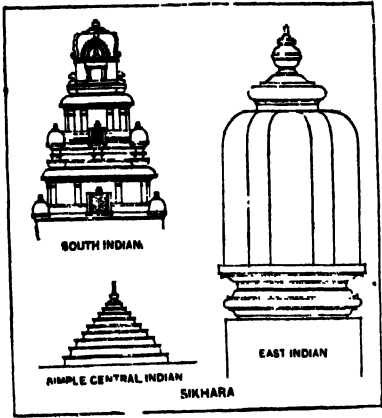
(1) Śrī-Gaṅga-Rajern Suttāle karaviyale (no. 75, Roman text, p. 62).

(2) Śrī-Gaṅga-Rāja Suttālayavarṇ māḍisidam (no. 76, Roman text, p. 62).

(3) Suttālayada bhittiya māḍisi—' had the wall round the cloisters and the twenty-four Tīrthaṅkaras made ' (no. 78, line 1).

(4) Gommaṭa devāra Suttālayadolu (no. 86, line 1).

(5) Gaṅgavāḍiya gommaṭa-devargge suttālayamam eyde māḍisidam—' for Gommaṭadeva of Gaṅgavāḍi he had the cloisters around made.'—(No. 90 ; Roman text, p. 72, line 9 from bottom upwards ; Transl., p. 158, para. 5 ; see also no. 59 ; Roman text, p. 57, line 27.)





(6) ' Inside (the bastis or Jaina temples) is a court probably squa. . and surrounded by cloisters (*see* photo no. 149 of Jaina basti at Śrāvana Belgola, Fergusson p. 270), at the back of which rises the vimāna over the cell, which contains the principal image of the Tirthaṅkara.'—(Fergusson, *Ind. and East. Arch.*, p. 269, last para., photo no. 149, p. 270.)

SŪTRA-GRĀHIN (*see* under STHAPATI)—The draftsman, an architect.

SŪTRA-DHĀRA (*see* under STHAPATI)—A carpenter, an architect.

SŪTRA-DHĀRIN (*see* under STHAPATI)—The thread-holder, the manager, an architect.

SŪTRA-PAṬṬI (*see* PAṬṬA and PAṬṬIKĀ)—A part of a door.

Dvāra-tāre chatush-pañcha-shaṭ-saptāśṭa vibhājite ||

Ekāṁśam sūtra-paṭṭiḥ syāt samam vā bahalam bhavet ||

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, xiv, 1, 2.)

SŪRYA-VIŚĀLAKA—A site plan of 400 square plots.

(*M.*, vii, 26-27, *see* PADA-VINYĀSA.)

SETU—A bridge in general, a barrier, a boundary, a limit, a landmark, a bridge of earth, a cause-way, narrow pass or mountain-road, a mound, a bank, a dam.

(1) Karṇa-kilāya-sambandho'nugrihaṁ setuḥ—' the fastening of the roof of a house to the transverse beam by means of iron bolts is called setu.'—(*Kaṣṭhīya-Artha-śāstra*, Chap. LXV, p. 166, para. 1.)

(2) Maṭhā vedādinām dvija-pura-vihārāḥ prati-dīśam virājante satryāṇy api cha paritas setu-nivabhāḥ ||

(Two Bhuvaneśvara inscrip. no. A, of Svapneśvara, v. 30, *Ep. Ind.*, Vol. vi, p. 202.)

(3) Sa khalu Bhāgirathī-patha-pravarttamāna-nānā-vidha-nauvāṭa-sampādita-setu-vandha-nihita-śaila-śikhara-śreṇī-vibhramāt |

' From the illustrious camp of victory at Śrī-Mudgagiri, where the bridge, which is produced by the wall of boats of various kinds proceeding on the path of the Bhāgirathī, surpasses the beauty of a chain of mountain tops.'

Dr. Hultzsch seems to think that ' the broad line of boats floating on the river resembled the famous bridge of Rāma.'

Dr. Rājendralāl Mitra, however, concludes from this passage, that ' Nārāyaṇapāla had made a bridge of boats across the Ganges.'

(Bhagalpur Plates of Nārāyaṇapāla, lines 24-25, *Ind. Ant.*, Vol. xv, pp. 306, 308-9, and note 29.)

SENĀ-MUKHA—A division of an army, a mound in front of the gate of a city, a prosperous royal city (*see* under NĀGARA).

- (1) Nānā-janaiś cha saṃpūrṇaṃ bhūpa-harmyeṇa saṃhyutam |  
Bahu-raksha-samopetam etat senā-mukhaṃ bhavet |

(*M.*, x, 70-71.)

- (2) Rāja-veśmā-samāyuktaṃ sarva-jāti-samanvitam |  
Guhya-pradeśa-saṃhyuktaṃ senā-mukham ihochyate ||

(*Kāmikāgama*, xx, 12.)

SE(-ŚI)LĀ-RŪPAKA—A statue, a rock-sculpture.

*Cf.* 'The rock sculpture or statues, gift of his (Sivama's) wife Vijaya.'  
(Kuda Insc. no. 6, line 7, *Arch. Surv.*, new Imp. Series, Vol. iv, p. 85.)

SAINYA-DURGA—A fort (*see* details under DURGA).

SOPĀNA—Stairs, steps, a stair-case, a ladder.

- (1) *Mānasāra*, Chap. xxx :

Flights of steps are constructed for ascending up and descending from temples, residential buildings, pavilions, enclosure (prākāra), gate-houses, hilly tracts (parvata-deśa), step-wells, wells, ponds, villages, and towns (lines 85-89).

Their situation :

They are stated to be constructed on the front, back and sides of a residential building or temple :

- Sarveśhām mukha-bhadraṇām pārśve sopāna-saṃhyutam | (93)  
Pārśvayor dvāra-deśe tu mukha-sopānam eva vā | (94)  
Guhyānta-dvāra-deśe tu vāme sopāna-saṃhyutam | (97)  
Pramukhe mukha-sopānaṃ kuryāch chhilpa-vit-tamah | (102)  
Prapāṅge pramukhe bhadre sopānaṃ pūrva-pārśvayoḥ | (105)  
Pārśvayoḥ pṛishṭha-deśe tu tat-pūrve paksha-pārśvayoḥ | (100)  
Yatra deśe tu sopānaṃ tatra dosho na vidyate | (101)  
Alinda-yuktaṃ tad-dvāre vāme sopāna-saṃhyutam | (113)  
Vinālanda-pradeśe tu pramukhe sopānam eva cha | (114)

Their situation in other places :

- Gopurāṇām tu tat-pārśve sopānaṃ lakṣhaṇānvitam | (117)  
Adri-deśe samārohya yatra tatraiva kārayet | (118)  
Vāpi-kūpa-taṭāke vā paritaḥ sopāna-saṃhyutam | (119)  
Chatur-dikshu chatush-koṇe chāntarāle'thavā punaḥ | (120)  
Evam eva yathā-deśe bhadra-sopānaṃ eva vā | (121)

Their plan :

- Trayo-vimśach chhatāntaṃ syād devānām iti kathyate | (141)  
Paṭṭādri-mārga-paryantaṃ tiryak chordhvordhva-choktavat | (142)

- Mānushānām tu sopānam paṭṭikā-yugma-saṁyutam | (143)  
 Sopāna-pārsvayor deśe hasti-hasta-vibhūshitam | (155)  
 Hasta-mūla-viśāle tu choktāṅgulim na mānayet | (156)  
 Mūlena tat (mūle chāgra)-tri-bhāgaikām hastāgrāntam kshayam  
 kramāt | (157)  
 Hasti-hasta-vad ākāram rāga-yuktam manoharam | (150)  
 Tri-chatush-pañcha-vaktraṁ vā mūlena śimhānanair yutam | (159)  
 Agrādho-dhārapaṭṭam syāt paṭṭikā chokta-mānakam | (160)  
 Ādhāra (agradhāra)ṁ pālikākāram paṭṭikā vedikākṛtiḥ ! | (161)  
 Adri-sopāna-pārsve tu na kuryāt pārsvayo'ngirikam | (163)  
 Adri-Sopāna-deśe tu dirgha-mānam yatheshṭakam | (136)  
 Sarvālānkāra-saṁyuktam sopānam lakṣaṇānvitam | (162)

Measures of the other flights of steps are given in detail (lines 125-132, 134-136).

- The two kinds of steps (and the materials of which they are constructed) :  
 Achalam cha chalam chaiva dvidhā sopānam iritam | (90)  
 Śilābhiḥ cheshṭakair vāpi dārubhiḥ sachalam matam | (91)  
 Sarvaiś chaivāchalam proktaṁ kshudra-sopāna-saṁyutam | (92)

The account given above is that of the stationary steps, that of the movable (? moving) steps is also given :

- Achalam cheti proktaṁ chalam sthāpyam yatheshṭakam | (124)  
 Tri-chatush-pañcha-śaṣṭ-mātram chalam sopāna-pādake | (144)  
 Tad-ghanam cha viśāle tu samam vā pādām ādhikam | (145)  
 Ardhādhikam tu pādona-dvi-guṇam tri-guṇam tataḥ | (146)  
 Daṇḍa-dvaya-saṁyuktam chitra (? chhidra)-yuktam tu paṭṭikā |  
 (147)  
 Eka-dvi-try-aṅguam vāpi paṭṭikā-ghanam eva cha | (148)  
 Dvi-tri-veda-śarāṅgulyam śaṣṭ-saptāṅgulam eva vā | (149)  
 Aṣṭa-nanda-daśāṅgulyam paṭṭikā-viśṭitam bhavet | (150)  
 Evam tu chala-sopānam achalam tat pravakshyate | (151)

- (2) Viśvakambha-chatur-aśram aṭṭālakam utsedha-samāvakshepa-sopānam kārayet |  
 Iṣṭakāvabandha-pārsvarām vāmataḥ pradakṣhiṇa-sopānam gūḍha-bhitti-sopānam itarataḥ |

(*Kauṭīliya-Artha-śāstra*, Chap. xxiv, pp. 52, 53.)

- (3) Sopānam cha yathā-yuktyā hasti-hastam tathaiva cha ||

(*Suprabhadgama*, xxxi, 114.)

*Ibid*, lv :

Tale tale tu sopānam ārohārtham prakalpayet || (167)

Compare Śaṅkha-sopāna (v. 170), hasti-sopāna and lāja-sopāna (v. 174), pradakṣhiṇa-sopāna (v. 176).

The general plan :

Sopānaṃ pārśvāyora agre tan-mūlasya prayojayet |

Tan-mūlaṃ syād adhishṭhānaṃ pāda-prastāra-varga-yuk || (177)

Aśva-pādo pari sthitvārohaṇaṃ dakṣiṇāṅghriṇā |

Idriḡ-lakṣhaṇa-samyuktaṃ sopānaṃ saṃpadāśpadam || (178)

(4) *Mahābhārata*, I, 185, 20 :

Prāsādaiḥ sukṛitochchhrāyaiḥ . . . |

Sukhārohaṇa-sopānaiḥ mahāsana-parichchhadaiḥ ||

(5) Flights of steps (Vanapalli Plates of Anna-vema, v. 10, *Ep. Ind.*, Vol III, pp. 61, 59.)

(6) Meru-maṃdara-kailāśān āruṅkshur mahāmatih |

Sopāna-paṅktim śrī-śaile vyatanod vema-bhū-patih ||

‘ Desirous of ascending Meru, Mandara and Kailāśa. i.e. to gain heaven through charity) the high-minded king Vema constructed a flight of steps at Śrī-śaile.’—(Nadupuru Grant of Anna-vema, v. 6, *Ep. Ind.*, Vol. III, p. 288, 291.)

The sopāna is a kind of religious architecture peculiar to India, cf. eg., the flight of steps in Chandra-śekhara peak, Sītā-kuṇḍa, Chittagong, Bengal.

(7) Pātāla-gaṅgā-taṭe śrī-śaile . . . sopāna vithim śubhām—‘ a beautiful flight of steps in the bank of the Pātāla-gaṅgā at the foot of the Śrī-śaile hill.’—(Tottaramudi Plates of Kataya-vema, v. 8, *Ep. Ind.*, Vol. IV, p. 322.)

(8) Śrī-śailāgrāt prabhavati pathi prāpta-pātāla-gaṅge |

Sopānāni pramatha-padavim āruṅkshuś chakāra ||

‘ Constructed the flight of steps from Pātālagāṅgā to the summit of the Śrī-śaile as if to climb up to the abode of Śiva.’—(Inscrip. of the Reddis of Kondavidu, no. A, v. 6, *Ep. Ind.*, Vol. XI, pp. 320, 314.)

(9) ‘ Brahmaṃpryan . . . caused to be made the stone work of a flight of steps, with tiger’s head at the bottom for the abhisheka-maṇḍapa in the temple of Vaṇḍuvarāpati-Emberuman at Manimaṅgalam . . . ’

(Inscrip. of Rajaraja III, no. 39, *H. S. I. I.*, Vol. III, p. 86.)

(10) Śrī-Vāgmatī-jalāvātāra-sopānārama-ghaṇṭa-dharmma-śālā-pratishṭhā-karmma samāpayan |

Sopānāṅgiraṃ iyaṃ vidagdha-rachanā-sūśliṣṭha-chitropalā ramyā vāyusutādhivāsa-vihita-proddāma-viḡhnāvalih |

Sampādyānhika-sakta-loka-vihita-svechchhāvākāśa-sthalā snāna-dhyāna-hitā sudhā-dhavalita-prāntā chiram rājataṃ ||

(Inscrip. from Nepal, no. 23, *Inscrip. of Queen Lalita-tri-pura-sundari*, v. I, Second Series, *Ind. Ant.*, Vol. IX, p. 194.)

(11) Śrīmān eṣho'rḱka-kirttir nṛṇipa iva vilasat sāla-sopānakādyaīḥ !  
 'That honourable one, like a king of sun-like glory (erected) splendid walls and stairs.'—(*Ep. Carnat.*, Vol. II, no. 105; Roman text, p. 79, line 14; Transl., p. 164, para. 6.)

(12) Mahā-sopāna-pāṅktiyumam rachisidam—'had the flight of grand stairs laid out.'—(*Ep. Carnat.*, Vol. II, no. 115; Roman text, p. 87; Transl., p. 171.)

(13) 'For the new Jina temple in the place of his government, in order that long life might be to Permmānaḍi, caused steps to be cut to the deep tank of Baḷora-kaṭṭa, had the embankment built, provided a sluice, and . . .'—(*Ep. Carnat.*, Vol. III, Maṇḍya Taluq, no. 78; Transl., p. 47; Roman text, pp. 101-102.)

(14) The *Chullavagga* (vv. II, 6; VI, 3, 3) and the *Mahāsudassana-sutta* (I, 59) have referred to stairs of three kinds, namely, brick stairs, stone stairs, and wooden stairs. All these are furnished with balustrades (ālam-bana-bāhu). Each of these had posts or banisters (thambā), cross-bars (sūchiyo) let into these banisters, and a head-line (uṇhisam) running along the top of the banisters.—(Compare Rhys Davids' *Buddhist Suttas*, p. 262, and the writer's *Indian Architecture*, p. 13.)

SOMA-SŪTRA—A drain, a channel for conveying holy water from a Phallus of Śiva or any other deity of a shrine.

'The drainage channel from the shrine, an ornamental feature of these temples.'—(*Chalukyan Architecture, Arch. Surv.*, New Imp. Series, Vol. XXI, p. 39.)

See also *Champa* by Mazumdar, p. 257.

SETU—A bridge, a dam, a causeway (*R.-V.* IX, 41, 2; *Taitt. Sam.*, III, 2, 2, 1; VI, 1, 4, 9, 5, 3, 3; VII, 5, 8, 5; *Kath. Sam.*, XXVII, 4; *Āit. Brā.*, III, 35; *Taitt. Brā.*, II, 4, 2, 6; *Sāt. Brā.*, XIII, 2, 10, 1; *Bṛihad-Upanished*, IV, 4, 4; *Chhand-Upa.*, VIII, 4, 1, 2).

SAUKHYAKA—A pleasure-house, a type of pavilion.

(*M.*, XXXIV, 279; see under MAṆḌAPA.)

SAUDHA—A plastered, stuccoed or whitewashed house, a large house, a great mansion, a palatial building, a palace.

(1) Kailāṣa-śāila-vilāśinas samuttumgga-śikharasya saudhasyāsthāna-bhūmau |

(Teki Plates of Rajaraja-chodaganga, line 82, *Ep. Ind.*, Vol. VI, p. 342.)

(2) Kshetre prabhāse sukṛitādhivāse svakārita-brahma-purī-griheṣhu |  
 Prakṣhālyā pādaḥ pradadau ṣa saudhaṁ Nānāka-nāṁne kavi-panḍi-tāya ||



' (He) in the sacred Prabhāsa, the habitation of good actions, gave to Nānāka, the Poet and Paṇḍit, having washed his feet, a palace among the mansions of the Brahma-purī founded by himself.'—(Sanskrit Grants and Inscript., no. 11, v. 8, *Ind. Ant.*, Vol. XI, pp. 106, 107.)

**SAUDHA-MĀLIKĀ** (*see* PRĀSĀDA-MĀLIKĀ)—A class of buildings, an edifice of the Mālikā class.

**SAUMUKHYA**—An object having a beautiful face, a type of column, one of the five Indian orders.

(*Suprabhedāgama*, XXXI, 65, 67; *see* under STAMBHA.)

**SAUMYA**—A class of buildings.

(*Kārikāgama*, XLV, 40; *see* under MĀLIKĀ.)

**SAUMYA-KĀNTA**—A type of gate-house.

(*M.*, XXXIII, 563; *see* under GOPURA.)

**SAURA-KĀNTA**—A type of storeyed buildings.

A class of nine-storeyed buildings.

(*M.*, XXVII, 5-9; *see* under PRĀSĀDA.)

**SAUSHṬHIKA**—An architectural object or moulding added for the sake of elegance or beauty.

Tad-eva śālā-pārśve chaikaṁ dvyaikena shaushṭhika-hārāḥ |

(*M.*, XXVIII, 16.)

Tad-eva-śālā-prānte tu pārśve chaikena saushṭhikam |

(*M.*, XXIX, 26; *see* for context, 24-33; *see* under AKRA-KĀNTA.)

**SKAND-(H)A-KANTA**—A type of column, a type of gate-house.

The hexagonal or six-sided pillars with six upa-pādas or minor pillars—(*M.*, xv, 246, 23-245).

A type of gate-house—(*M.*, XXXIII; *see* under GOPURA).

**SKANDHA-TĀRA**—A type of building extending like the shoulders.

A class of single-storeyed buildings—(*M.*, XIX, 172; *see* under PRĀSĀDA).

**SKANDHĀVĀRA**—A division of an army, a camp, a royal residence, a capital city, a fortified town.

(*M.*, x, 42, f.; *see* under NAGARA.)

*Cf.* Śri-Venu-grāma-skaṁdhāvāre sukhena saṁrājya-lakshmiṁ anubhavan |

' While he is enjoying the good fortune of universal sovereignty at the famous camp of Venu-grāma.'—(Bhoj Grant of Kārtavīrya, IV, lines 96-97, *Ind. Ant.*, Vol. XIX, pp. 247, 248.)

STAMBHA—Fixedness, a support, a stem, a trunk, a post, a pillar, a column, banisters (*Mahāsuddassana-sutta*, I, 59, see *Buddhist-suttas* by Rhys Davids, p. 262, compare *Chullavagga*, VI, 3, 3.)

For references to Vedic pillars, *vide* 107 below.

The column is generally four times the base (*M.*, XIII, 2-3, see under ADHISṬHĀNA), and the pedestal is stated to be twice or three times the base (see *Mayamata*, under ADHISṬHĀNA) and the entablature is directed to be  $\frac{3}{4}$  of, equal to, or greater by  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , or twice of, the base (*M.*, XVI, 2-4, see under PRASTARA).

(1) *Mānasāra* (Chap. xv, 1-448), named Stambha :

Columns are called jaṅghā, charaṇa, (s)talī, stambha, aṅrika, sthāṇu, thūṇa, pāda, skambha, araṇi, bhāraka, and dhāraṇa (lines 4-6). The height or length of a column is measured from above the base to below the Uttara, or above the pedestal from Janman to the Uttara (lines 7-9). The height of a column is, in other words, 'measured from the plinth (of the former) up to the lowest part of the entablature, that is, from the base to the capital inclusive.' The length of a column is twice,  $1\frac{1}{4}$  or  $1\frac{1}{2}$  times of its base (lines 8-10); or the heights of the column begin with  $2\frac{1}{2}$  cubits and end at 8 cubits, the increment being by 6 aṅgulas or  $\frac{1}{4}$  cubit (lines 11-12). But according to Kāśyapa (see Rām Rāz, *Ess. Arch. of Hind.*, p. 29), the height of the pillar may be 3 times that of the base; or 6 or 8 times that of the pedestal. The diameter of a pillar may be  $\frac{1}{4}$ th,  $\frac{1}{3}$ th,  $\frac{1}{5}$ th, or  $\frac{1}{10}$ th of its height, if it be made of wood or stone,  $\frac{1}{3}$ rd,  $\frac{1}{4}$ th, or  $\frac{1}{5}$ th, of the height, if it be a pilaster joined to a wall (kuḍya-stambha). In other words, the column is from three to ten times the diameter. The width of the pilaster, according to the *Mānasāra*, is 3, 4, 5, or 6 mātras (parts), and twice, thrice, or four times of these should be the diameter of the pillar (*M.*, xv, 14-15). The height of a pillar being divided into 12, 11, 10, 9, or 8 parts, one of these parts is the diameter of the pillar, and at the top it is diminished by one-fourth (lines 16-18).

Columns admit almost of all shapes (lines 20-23). A quadrangular (four-sided) pillar is called Brahma-kānta; an octangular one is called Viṣṇu-kānta; a sixteen-sided or circular one is known as Rudra-kānta; a pentagonal one is called Śiva-kānta; and a hexagonal column is called Skanda-kānta. These columns are stated to be uniform from bottom to top; but the bases of these may be quadrangular (lines 24-25).

With reference to dimensions and ornaments the five kinds of columns—Brahma-kānta, Viṣṇu-kānta, Rudra-kānta, Śiva-kānta, and Skanda-kānta—are called Chitra-karṇa (line 31), Padma-kānta (line 39), Chitra-skambha (line 40), Pālikā-stambha (line 73), and Kumbha-stambha (lines 73, 204). The sixth one, Koṣṭha-stambha (line 84) in the latter division, is stated to be two-sided, and hence it is same as Kuḍya-stambha or pilaster. It should be noticed that the former set of five names refer to the shapes of columns, i.e. shafts, while the latter set of five names is based on the shapes of the capitals. But in the detailed account both the capital and shaft are included.

Columns when in rows, must be in a straight line.

‘The inter-columniation may be two, three, four, or five diameters; it is measured in three ways, first from the inner extremity of the base of one pillar to that of another, secondly from the centre of two pillars, and thirdly from the outer extremities of the pillars including the two bases.’ ‘There are no fixed inter-columniations in *Indian Architecture*.’—(Rām Rāz, *Ess. Hind. Arch.*, pp. 32, 39.)

Cf. Dhvaja-stambha (*M.*, LXIX, 24 . Dhānya-stambha and Śilā-stambha (*M.*, XLVII, 1). The shapes and mouldings of the last one (*ibid.* 16–18) :

Vṛttam vā chatur-aśraṁ vā aṣṭāśra-śhoḍaśātrakam |  
Pāda-tuṅge'shṭa-bhāge tu triṁśenordhvam alaṅkṛitam |  
Bodhikaṁ muṣṭi-bandhaṁ cha phalakā tāṭikā ghaṭam |

These are apparently the five component parts of the shaft.

The entablature, base, and pedestal are separately described :

Kuṭṭimam chopapīṭham vā sopapīṭha-masūrakam (*ibid.*, 21).

See further details under UPAPĪṬHA, ADHIṢṬHĀNA and PRASTARA.

For the component parts of a column, see further details below.

(2) *Kārikāgama*, XXXV :

Nava-hasta-pramāṇāntaḥ stambhotsedhaḥ-prakīrtitaḥ || (24)

Chatur-aṁśam samārabhya śhaḍ-daśāṁśam yathā-vidhi |

Bhāgāt kṛitvaika-bhāgena nyūnaṁ syād agra-vistāraḥ || (26)

Śilā-stambhaṁ śilā-kuḍyam narāvāse na kārayet || (161)

*Ibid.*, LV, 203 (the synonyms) :

Sthāṇu(h) sthūṇaś cha pādaś cha jaṅghā cha charaṇāṅghrikam |

Sthambho hasto lipyaṁ kampaṁ (skambhaṁ) pādānām abhidhā-  
nakam ||

(3) *Suprabhedāgama*, XXXI :

The coloumn compared with its base and entablature :

Pādāyamaṁ adhiṣṭhānaṁ dvi-guṇaṁ sarva-sammatam |

Pādārdhaṁ prastaraṁ proktaṁ karṇaṁ prastaravat samam || (28)

The shapes of the five orders, the fifth being composite of two :

Jāti-bhedam samākhyātam pādānām adhunocyate || (53)

Chatur-aśram athāshṭāśram shoḍaśāśram tu vṛttakam |

Kumbha-yuktās tathā kechit kechit kumbha-vihṅnakāḥ || (54)

The five names and characteristic features of the five orders :

Śrī-karam chandra-kāntam cha saumukhyam priya-darśanam ||

(65)

Śubhamkarī cha nāmāni kartavyāni viśeshataḥ |

Śrī-karam vṛtta-pādānām shoḍaśāśre tu kāntakam || (66)

Saumukhyam hi tathāshṭāśre turyāgre priya-darśanam |

Chatur-aśrāshṭa-miśre cha pādā kāryā śubhamkarī || (67)

This last one is the Indian Composite order.

The common features and mouldings of the five orders :

Pādā nāmā iti prokto teshām lakṣaṇam uchyate || (55)

Vistāryasya chatur-vimśat(d)-bhāgaikam pāda-vistaram |

Tad-eva daṇḍam ākhyātam pādālakāra-karmaṇi || (56)

Mūla-pādasya vistārāt saptaikāmsena mārgataḥ |

Dvi-daṇḍam maṇḍir utsedham daṇḍa-pādām tu vistaram || (57)

Ashṭāmsam kaṇṭham utsedham dvi-daṇḍam kumbha-vistaram |

Utsedham tu tri-pādām hi pādona phalakā bhavet || (58)

Tri-daṇḍam vistaram proktam tad-ardham nirgataḥ smṛitam |

Vira-kaṇṭham tu daṇḍena vistāram tat-samam bhavet || (59)

Tad-ūrdhve potikāyāmam tat-tri-pādām tad-uchchritam |

Tri-daṇḍam adhamāyāmam chatur-daṇḍam tu madhyamam || (60)

Uttaram pañcha-daṇḍam tu potikāyāmam uchyate |

Chitra-patra-taraṅgaś cha bhūshayitvā tu potikām | (61)

Kumbha-pādām idam proktam kumbha-nimnam prachakshmahe |

Pādām potikayā yuktaḥ śesham karma na kārayet || (62)

Kumbha-hīnās tv-ime proktā latā-kumbham tad uchchyate |

Kumbhākāram tu tan-mūle tad-ūrdhvam padmam eva tu || (63)

Phalakordhve latām kuryāt tach-chhesham kumbha-pāda-vat |

Pādāntare tu kartavyam aśaktaś chet tu varjayet || (64)

Sarveshām eva pādānām tat-pādām nirgamam bhavet || (65)

(Of all orders, the projection is  $\frac{1}{4}$ ).

The columns of the main prāsāda (edifice) and of the subordinate maṇḍa-  
pas (pavilions) are distinguished :

Prāsāda-stambha-mānasya etat stambham viśishyate |

Pādādhikam athādhyardham pādona-dvi-guṇam bhavet || (105)

Stambhāyāmāshṭa-bhāgaikam stambhasyaiva tu vistaram |

Vṛttam vā chatur-aśram vā chatur-ashṭāśra-miśrakam || (106)

Shoḍaśāśra-yutam vāpi śilpaiḥ sarvaiḥ sufobhitam |

Stambhāch cha bodhikādhikyā bodher apy uttarādhikā || (107)

Uttarād vājanādhikyā tasyordhve mudrikām nyaset |

Mudrikāch cha tulādhikyā jayantī tu talopari || (108)

Chhādayed ishṭakābhis tu tasyordhve kalakān kshipet || (109)

The above passage refers to only a part of the order. The pedestal, base, and entablature are described elsewhere. (See *Suprabhedāgama*, under PĪṬHA and UPAPĪṬHA, ADHIṬHĀNA and PRASTARA.)

The mouldings of the part between the entablature and base, that is the capital and the shafts, are, as described above, called Daṇḍa (v. 56), Maṇḍi (v. 57), Kaṇṭha, (v. 58), Kumbha (v. 58), Phalakā (v. 58), Vira-kaṇṭha (v. 59), and Potikā (v. 60).

The same are otherwise called Bodhikā, Uttara (v. 107), Vājana, Mudrikā, Tulā, Jayantī, and Tala (v. 108).

(4) *Kauṣṭhīya-Artha-Sāstra* (chap. xxiv, p. 53) :

Stambhasya parikshepāsh shaḍ-āyāmā dvi-guṇo nikhātaḥ chūlikāyāś chatur-bhāgaḥ—‘in fixing a pillar, 6 parts are to form its height on the floor, twice as much (12 parts) to be entered into the ground, and one-fourth for its capital.’

(5) *Rāmāyana* (18, vi, 3, etc.) :

Kāñchanair bahubhiḥ stambhair vedikābhiś cha śobhitaḥ |

(6) *Mahābhārata* (xrv, 2523, etc.) :

Stambhān kanaka-chitrānś cha toraṇāni vṛihanti cha |

(7) *Matsya-Purāna* (Chap. cclv, v. 1-6) :

Athātaḥ saṁpravakshāmi stambha-māna-vinirṇayam |

Kṛitvā sva-bhavanochchhrāyam sadā sapta-guṇam budhaiḥ ||

Aśity-amśaḥ pṛithutve syād agre nava-guṇe sati |

Ruchakaś chatur-aśraḥ syāt tu aśṭāśro vajra uchryate || (2)

Dvi-vajraḥ shoḍaśāśtras tu dvā-trimśāśraḥ pralīnakaḥ |

Madhya-pradeśe yaḥ stambho vṛitto vṛitta iti smṛitaḥ || (3)

Ete pañcha-mahā-stambhāḥ praśastāḥ sarva-vāstushu |

Padma-valli-latā-kumbha-patra-darapa-ropitāḥ || (4)

Stambhasya navamāmsēna padma-kumbhāstarām tu |

Stambha-tulyā tulā proktā hīnā chopatulā tataḥ || (5)

Tri-bhāgencha sarvatra chatur-bhāgena vā punaḥ |

Hīnam hīnam chaturthāmsāt tathā sarvāsu bhūmishu || (6)

These verses are almost identical in the *Bṛihat-saṁhitā* (LIII, 27-30) ; see below :

(8) *Bṛihat-saṁhitā* (LIII, 27-30, *J. R. A. S.*, N. S., vol. vi. p. 285, notes 1, 2) :

Uchchhrayāt sapta-guṇād aśti-bhāgaḥ pṛithutvam eteshām |

Nava-guṇite aśtīyamśaḥ stambhasya daśāmsā-hīno'gre || (27)

' The eightieth part of nine times the altitude (of the storey) gives the width of a column at the bottom ; this diminished by one-tenth is the width of the column at the top.' Kern.

Sama-chatur'āśro ruchako vajro'shṭāśrir dvi-vajrako dvi-guṇaḥ ।  
Dvā-trimśāśras tu madhye pralīnako vṛitta iti vṛittāḥ ॥ (28)

A column with four sides equally rectangular (*lit.* of four equal corners) is called Ruchaka (=beautiful) ; one with such eight sides is called Vajra ; one with such sixteen sides is called Dvi-Vajra : one with such thirty-two sides at the middle (i.e., by the shaft) is called Pralīnaka ; and a round one is called Vṛitta.

Stambhaṁ vibhajya navadhā vahanam bhāgo ghaṭo'sya bhāgo'nyāḥ ।

Padmaṁ tathottarośṭham kuryād bhāgena bhāgena ॥ (29)

Cf. Commentary quotes *Kīraṇa-Tantra* (? *Kīraṇāgama*) :

Vibhajya navadhā stambhaṁ kuryād udvahanam ghaṭam ।

Kamalaṁ chottarośṭham tu bhāge bhāge prakalpayet ॥

' When you divide the whole column into nine parts, one part would be the pedestal (?) ; the second, the base (?). The capital(?) and also the upper lip(?) must be made so as to form one part, each of them.' (*See below.*)

' All this exceedingly vague.' Kern.

Stambha-samam bāhulyam bhāra-tulānām upary upary āsām ।

Bhavati tulopatulānām ūnam pādēna pādēna ॥ (30)

' Equal to the thickness of the column is that of the architraves ; the thickness of the superior cross-beams and upper rafters is lessened by one-quarter, again and again.' Kern.

The eight component parts of the column (order) mentioned in the *Matsya-Purāṇa*, *Bṛihat-saṁhitā*, and *Kīraṇa-tantra* are (1) vahana, (2) ghaṭa, (3) padma, (4) uttarośṭha, (5) bāhulya, (6) bhāra (? hāra), (7) tulā, and (8) upatulā.

Dr. Kern's conjectural rendering of these terms does not seem tenable. Nothing can, however, be stated with certainty about their identification. But there is a very striking similarity between the number (eight) of the mouldings, of which the Indian and the Greco-Roman orders are composed. (*See below.*)

(9) Saṁgraha-śiromaṇi by Sarayū Prasāda (xx, 132-134), cites the same three verses from *Varāha-mihira* (B. S. LIII, 28-30) as quoted above.

(10) ' The subservient parts of an order, called mouldings, and common to all the orders, are eight in number. They are—

(i) The ovolo, echinus, or quarter round (Fig. 867). It is formed by a quadrant, or sometimes more of a circle, but in Grecian

examples its section is obtained by portions of an ellipse or some other conic section. This latter observation is applicable to all mouldings of Greek examples, and we shall not repeat it in enumerating the rest of them. It is commonly found under the abacus of capitals. The ovolo is also almost always placed between the corona and dentils in the Corinthian cornice; its form gives it the appearance of seeming fitted to support another member. It should be used only in situations above the level of the eye.

(ii) The talon, ogee, or reversed cyma (Fig. 868) seems also, like the ovolo, a moulding fit for the support of another.

(iii) The cyma, cyma recta, or cymatium (Fig. 869) seems well contrived for a covering and to shelter other members. The cyma recta is only used properly for crowning members, though in Palladio's Doric, and in other examples, it is found occasionally in the bed mouldings under the corona.

(iv) The torus (Fig. 870), like the astragal presently to be mentioned, is shaped like a rope, and seems intended to bind and strengthen the parts to which it is applied; while,

(v) The scotia or trochilos (Fig. 871), placed between the fillets which always accompany the tori, is usually below the eye; its use being to separate the tori, and to contrast and strengthen the effect of other mouldings as well as to impart variety to the profile of the base.

(vi) The cavetto, mouth or hollow (Fig. 872) is chiefly used as a crowning moulding like the cyma recta. In bases and capitals it is never used. By workmen it is frequently called a casement.

(vii) The astragal (Fig. 873) is nothing more than a small torus, and, like it, seems applied for the purpose of binding and strengthening. The astragal is also known by the names of bead and baguette.

(viii) The fillet, listel or annulet (Fig. 874) is used at all heights and in all situations. Its chief office is the separation of curved mouldings from one another.

(Gwilt, *En cycl. of Arch.*, art., 2532; see also Gloss. Grecian Arch., plates xxxiv, xxxiv, bis.)

(Attention of the reader should also be drawn to another striking affinity between the Indian and the Greco-Roman orders: in both cases they are principally five in number: see details below.)

Whatever be the reasons of these affinities, chance or influence, some of the eight mouldings of an Indian order may be identified with an amount of certainty with the corresponding mouldings of the Greco-Roman order. Padma means lotus and it is same as cyma. Uttaroshṭha, literally lower lip, and cavetto, mouth or hollow, are apparently the same.

Bhāra is read as hāra (in the *Mānasāra*) meaning a chain, and the latter expression implies the torus, bead or astragal. Ghaṭa might correspond to conge, Vahana to abacus, and Tulā and Upatulā (also called vājana and utara) to fillet or listel.

(11) Pillar with Garuḍa bird on the top (Badal Pillar inscrip., v. 27, *Ep. Ind.*, Vol. II, pp. 164, 167).

(12) Thambhāni (Pillar Edicts of Aśoka, no. VII, *Ep. Ind.*, Vol. II, p. 270).

(13) Stambhatvaṁ . . . Śrī-śailam evānyat—'Converted the Śrī-śaila into a pillar.'—(Vanapalli Plates of Anna-vema, v. 10, *Ep. Ind.*, Vol. III, pp. 61, 64.)

(14) Pillar (Deogaḍh Pillar inscrip. of Bhojadeva of Kanauj, lines 6, 9, *Ep. Ind.*, Vol. IV, p. 310).

(15) Tri-śūla-mudrāmkah svakiyāyatana-dvāre mahā-śaila-stambhaḥ ।  
'The pillar is (now) called the Lakshmī Kambha, or the pillar of (the goddess) Lakshmī.

The upper part of the pillar is octagonal (and this part contains the inscription). Immediately below the inscription, the pillar is square. It is stamped with the mark of the tri-śūla or trident, which is the weapon of Śiva, was set up in the middle of the three shrines by a sculptor named Śubhadeva.'—(Pattadakal inscrip. of Kirtivarman II, line 18, *Ep. Ind.*, Vol. III, pp. 1, 3, 5, 7.)

(16) A four-faced pillar made of stone (A. D. 1250) now "lying in the temple of Veṅugopāla in the Kistna District."—(Yenamadal inscrip. of Ganapamba, *Ep. Ind.*, Vol. III, pp. 94, 96.)

(17) 'This inscription (Śrāvaṇa-Belgola Epitaph of Mallisena, Śaka, 1050) is on four faces of pillar on a hill at Śrāvaṇa-Belgola in Mysore.'

(*Ep. Ind.*, Vol. III, p. 184.)

(18) Silā-stambha—stone pillar, (?) solid.

(Śrāvaṇa-Belgola Epitaph of Mallisena, v. 9, *Ep. Ind.*, Vol. III, pp. 190, 186.)

(19) Used in the sense of daṇḍa (a measure) :

Trimśat-stambha-pramāṇa-pushpa-vāṭikā ।

(Bamani inscrip. of Silhara Vijayaditya, line 22, *Ep. Ind.*, Vol. III, p. 213.)

(20) 'At the eastern entrance of this temple (named Kunti-Mādhava at Pithapuram, in the Godavari District) in front of the shrine itself stands (still) a quadrangular stone pillar.'—(*Ep. Ind.*, Vol. IV, p. 32.)

(21) 'The (Salotgi) pillar is inscribed on all its four faces : on the front or the first face, above the writing, are some sculptures, towards the top a liṅga, and below it a cow and a calf and something else which has been defaced.'—(*Ep. Ind.*, Vol. IV, p. 57.)



(22) Śilā-thabe cha usapāpīte— he 'caused a stone pillar to be erected.'—(The Aśoka Edicts of Paderna, line 3, *Ep. Ind.*, Vol. v, p. 4.)

(23) 'The Viṣṇu temple of Kūrmeśvara at Śrīkūrman near Chicalcole in the Ganjam District contains many inscribed pillars of hard black stone which have successfully withstood the influence of the climate.'—(*Ep. Ind.* Vol. v, p. 31.)

(24) Chakre . . . Vijaya-stambham ambhodhi-tīre ||

Puṅye sahyādri-śrīṅge tri-bhuvana-vijaya-stambham ||

(Four inscrip. of Kulottunga-Chola, no. A  
vv. 1, 2, *Ep. Ind.*, Vol. v, p. 104.)

(25) 'This inscription (Śrāvaṇa-Belgola Epitaph of Marasimha II) was engraved on the four faces of the base of a pillar, which is known as the Kuge-Brahma-deva-Kambha, at the entrance to the area, occupied by the temples on the Chandragiri hill at Śrāvaṇa-Belgola.'

(*Ep. Ind.*, Vol. v, p. 151.)

(26) Māna-stambha (Śrāvaṇa-Belgola Epitaph of Marasimha II, line 109).

(*Ep. Ind.*, Vol. v, pp. 178, 171, note 5.)

'The word "Māna-stambha", which means literally "a column of honour", is explained by Mr. Rice (Inscrip. at Śrāvaṇa-Belgola, Introduction, p. 19, note 2) as denoting technically "the elegant tall pillars, with a small pinnacled maṅṭapa at the top, erected in front of the Jain temples" and he refers us to a discussion regarding them in Fergusson's *Indian and Eastern Architecture*, p. 276.' Dr. Fleet (*see* below).

(27) Māna-stambha—Jaina pillar (Kriṣṇa Śāstri refers also to *Ep. Ind.* Vol. v, p. 171, note 5).

'The Mānastambhas, which are generally graceful, high and imposing, have to be distinguished from other Jainā pillars neither so tall as the former nor bearing any maṅḍapas on their tops. These latter are called Brahma-deva-pillars (*cf.* Brahma-kānta, in the *Mānasāra*) and appear to be usually set up in front of colossal statues. The Tyāgada-Brahma-deva pillar (figured on plate facing p. 33 of the Introduction to Mr. Rice's Śrāvaṇa-Belgola inscriptions) is set up opposite to the colossal statue on the Doḍḍa-beṭṭa hill at Śrāvaṇa-Belgola; the Kuge Brahma-deva pillar at the entrance into the bastis on the Chikkapeṭṭa hill of the same village, indicates perhaps the existence of the unfurnished colossus on that hill (*ibid.*, p. 29, note 1), and the colossi at Kārkala and Veṅṅūr have similar pillars in front of them, bearing an image of Brahma-deva on their tops (Government Epigraphist's Annual Report for 1900-1901, paragraphs 6 and 7).'

'A lithograph of a similar pillar at Veṅṅūr is given in *Ind. Ant.*, Vol. v, plate facing p. 39.'—(Kārkala inscrip. of Bhairava II, *Ep. Ind.*, Vol. vi 1, p. 123, note 2.)

(28) Trai-lokya-nagarārambha-mūla-stambhāya sambhave ।

'He is the foundation-pillar for the erection of the city of the three worlds.'—(Inscrip. at Ablur, no. E, line 1, *Ep. Ind.*, Vol. v, pp. 245, 252.)

(29) It (Śrīkūrmam inscrip. of Nara-hari-tīrtha) is inscribed on the east and north faces of one of the black granite pillars, which support the hall enclosing the temple.'—(H. Krishna Śastri, *Ep. Ind.*, Vol. vi, p. 260.)

(30) Siha-thabo—lion pillar (no. 1).

Sihadhayāna-thambho (no. 7).

Sasariro thabo—pillar containing relics (Senart).—(Karle Cave inscrip. nos. 1, 7, 9, also 8, 11, *Ep. Ind.*, Vol. vii, pp. 49, 53, 54, 55, 56.)

(31) Chañchat-kīrtti-patākayā tilakita-stambhaḥ pratishṭhāpitaḥ ।

Yasyāgre Garuḍa . . . 'All erected the famous pillar adorned with a waving banner of fame . . . the Garuḍa at the top.'

(Two inscrip. of Tammusiddhi, no. A, Tiruvalabgadu inscrip., v. 12, *Ep. Ind.*, Vol. vii, pp. 123, 125.)

(32) The inscription (Śrāvāṇa-Belgola inscription of Trugapa) is engraved on three faces of a quadrangular pillar behind the image of the Kūshmāṇḍinī Yakshī which is set up in the Brahma-deva-maṇḍapa in front of the Gummata temple on the Vindhayagiri at Śrāvāṇa-Belgola.'

(Dr. Lüders, *Ep. Ind.*, Vol. viii, p. 15.)

(33) According to Mr. Rice, the inscription (Talagunda pillar inscription of Kakusthavarman) is engraved on a pillar of very hard grey granite, which stands in front of the ruined Prabhavēśvara temple at Talagunda, in the Shikarpur Taluk of the Shimoga District of the Mysore State. The pedestal of the pillar is 5 feet. 4 inches high and 1 foot 4 inches at the top, a little more at the base. The shaft is octagonal, 6 feet 4 inches high ('judging by the length of the lines, the shaft must really be slightly higher'). Each face being 7 inches wide, but tapering slightly towards the top.'

(Prof. Kielhorn, *Ep. Ind.*, Vol. viii, p. 24.)

(34) Alupa inscriptions nos. I-VIII are engraved on octagonal pillars in front and in the courtyard of the Śambhukallu temple at Udiyāvāra.'

(*Ep. Ind.*, Vol. ix, p. 17 f.)

(35) Stambho'yam nagarasya—'this is the city pillar.'

(Kanker inscrip. of Bhanudeva, v. 6, *Ep. Ind.*, Vol. ix, p. 126.)

(36) In 1848 Captain J. D. Cunningham (in *J. R. A. S.*, Bengal, Vol. xvii. part 1, p. 305 ff) proceeds thus: near to the western edge of the similar lake stands the wand or pillar (in the town of Pithari in the Bhopal Agency of Central India) now called Bheem Sen. It is composed of a single block about 30 feet. in height and 2½ thick. The shaft is square in section, for a height of 8 feet, and it then becomes circular.'

In 1880 General Sir A. Cunningham (in his *Archaeological Survey of India*, Vol. x, p. 70), noticed thus : ' Inside the town on the top of the slope, there is a tall monolith with a bell-shaped capital. The shaft is circular, rising from a base 8 feet 3 inches high and 2 feet 9 inches square . . . and from their (of the letters of the inscription on the pillar) shapes I would assign the monument to somewhere about A.D. 600. Close by this pillar there is a small temple with Vishṇu sitting on Garuḍa over the door-way.'

The main object of the inscription is to record the erection of the pillar of which a vivid description is given.

(Pathari Pillar inscrip. of Parabala, vv. 24-28,  
*Ep. Ind.*, Vol. ix, pp. 254, 248, 249, 250.)

(37) ' In front of the temple is an inscribed quadrangular pillar of black granite bearing in relief within a countersunk square at the top of each of its four faces, the figure of a squatting Jaina ascetic with his arms folded over his lap crosswise.'

' The thousand-pillared temple in the middle of the village of Anmakonḍa was built by Prola's son Rudra in or about A. D. 1162-1163 (*Ind. Int.*, vol. xi, p. 9 f.).'

(Anmakonda inscrip. of Prola, *Ep. Ind.*,  
Vol. ix, pp. 257, 256, note 8.)

(38) ' The first verse (quoted below) inyokes the blessings of Vināyaka (Gaṇapati) who, we are told, was placed on the column to ensure prosperity at the top by a quadruple image of Gaṇapati, facing the cardinal directions.'

Siddhim karotu sarvvattra stambha-dhāma-Vināyakaḥ |

(Ghatiyala inscrip. of Kakkuka, no. 11, v. 1,  
*Ep. Ind.*, Vol. ix, pp. 280, 278-279.)

(39) Kamanīya-śilā-stambha-kadambottamvītāmvaram ||

Viśamkaṭaviṭamkāli-virājad raṅga-maṅṭapam ||

' It (the temple) has a large Raṅga-maṅḍapa raised on a collection of beautiful stone pillars and adorned with rows of spouts.'--(Krishṇapuram Plates of Sadāśivaraya, v. 55-56, *Ep. Ind.*, Vol. ix, pp. 336, 341.)

(40) ' The two (Nalamba inscriptions from Dharamapuri of the ninth century A. D.) are engraved on the four faces of a pillar, which was removed in 1904 from Dharamapuri in the Salem District to the Madras Museum.'

' The pillar measures 5' 4½" by 1' 4" on the east face, 5' 6½" by 1' 4" on the west and 5' 5½" by 1' 3" on the north and south faces. It is surmounted by a pinnacle from which proceed in the eight directions eight petals, which open downwards and are slightly raised at the edges where they meet the margins of the pillar . . . The pillar was built into the floor of a maṅḍapa, in front of the Mallikārjuna temple at old Dharmapura.'--(H. Krishna Sastri, *Ep. Ind.*, Vol. x, p. 54.)

(41) Mātṛi-pada-śri-nimitte stambhakaḥ pradattaḥ—'the pillar was presented in memory of (their) mother.'—(The Chahamanas of Marwar, no. xvii, Saṅḍerav stone inscrip. of Kelhanadeva, line 1, *Ep. Ind.*, Vol. xi, p. 52.)

(42) Tenānena Śri-gaṇapati-deva-mahā-rājena sakala-dvipārṃta-ripa-deśāntara-paññaneshu gatāgataṃ kurvāṇebhyaḥ sāmya-kṛitebhya evam abhayaśāsanam dattam |

Gaṇapati-devaḥ kīrtiyai sthāpitāvāṃś chhāsana-stambham ||

By this glorious Mahārāja Gaṇapati-deva the following edict (assuring) safety has been granted to traders by sea starting for and arriving from all continents, islands, foreign countries, and cities . . . Gaṇapati-deva set up for the sake of glory (this) edict-pillar.'

(Motupalli pillar inscrip. of Gaṇapati-deva, lines 135-140, v. 28, *Ep. Ind.*, Vol. xii, pp. 195, 196, 197.)

(43) Agrya-dhāma-śreyaso veda-vidyāvallikandaḥ svaḥ sravantyāḥ kīrtam |

Vra(bra)hma-stambho yena karṇāvātīti pratyashṭhāpi kshmatala-brahma-lokaḥ ||

'He set up the pillar of piety, called Karṇāvātī, the foremost abode of bliss, the root of the creeping plant, knowledge of the Vedas, the diadem of the stream of heaven, the world of Brahman on the surface of the earth.'

(Khairha plates of Yaśaḥkaradeva, v. 14, *Ep. Ind.*, Vol. xii, pp. 212, 216.)

(44) Kīrti-stambham (pillar of victory) nikhāya tri-bhuvana-bhavana-stūyamānāpadānaḥ |

(Conjeeveram plates of Krishnadeva-Raya, Śaka 1444, v. 9, *Ep. Ind.*, Vol. xiii, p. 127.)

(45) Sthāpayitvā dharaṇi-dharamayān sannikhātas tato'yaṃ śaila-stambhaḥ su-chārur giri-vara-śikharāgropamaḥ kīrtti-karttā ||

There was then planted in the ground this most beautiful pillar of stone, which resembles the tip of the summit of the best of mountains. (and) which confers fame (upon him).'

(Kahaum stone pillar inscrip. of Skandagupta, lines 11-12, *C. I. I.*, Vol. III, F. G. I., no. 15, pp. 67, 68.)

(46) Dhvajā-stambha, also called simply 'dhvaja' :

Mātṛi-(tā)pittroḥ puṇya-pyāyanārtham esha bhagavataḥ puṇyajanārddanasya Janārddanasya dhvaja-stambho'bhyuchchritaḥ ||

'This flag-staff of the divine (god) Janārdana, the troubler of the demons, has been erected, for the purpose of increasing the religious merit of (their) parents.'

Vishṇu-pada girau bhagavato vishṇor dhvajoḥ sthāpithaḥ |

'This lofty standard of the divine Vishṇu was set up on the hill (called) Vishṇupada.'—(Eran stone pillar inscrip. of Budhagupta, lines 8-9;

Meharauli posthumous iron pillar inscrip. of Chandra, line 6, *C. I. I.*, Vol. III, F. G. I., nos. 19, 32, p. 89 and note 1, 90; 141, 142.)

(47) 'The original lower part of the pillar (at Eran) is now broken away and lost; the remnant of it is about 3,11" high and 1' 6" in diameter. The hollow part is octagonal; and the inscription (Eran posthumous stone pillar inscription of Goparaja, no. 20) is at the top of this octagonal part, on three of the eight faces, each of which is about 7" broad . . . Above this the pillar is sixteen-sided. Above this, it is again octagonal; (and the faces here have sculpture of men and women, who are probably intended for the Goparaja of the inscription and his wife and friends; the compartment immediately above the centre of the inscription represents a man and a woman, sitting, who must be Goparaja and his wife). Above this, the pillar is again sixteen-sided. Above this, it is once more octagonal . . . Above this the pillar curves over in sixteen flutes or ribs, into a round top'.

'As noted by Cunningham, there are several other Sati-pillars (in commemoration of a Sati), but of much later date than at Eran.'—(*C. I. I.*, Vol. III, no. 20, pp. 91, 92, note 2.)

(48) The boundary-pillar :

Śiva-dāśena vala-yasṭi uchchhritaḥ—(this) boundary-pillar has been set up by Śivadāsa.'—(Bhumara stone pillar inscrip. of the Maharajas Hastin and Sarvanatha, lines 6-7, *C. I. I.*, Vol. III, F. G. I., no. 24, pp. 111, 112.)

(49) The inscription (Meharauli posthumous iron pillar inscription of Chandra, no. 32) is on the west side of a tapering iron column, sixteen inches in diameter at the base and twelve at the top, and twenty-three feet eight inches high, standing near the well known Kutb Minar in the ancient fort of Rāy Pithara.'—(*C. I. I.*, Vol. III, F. G. I., no. 32, p. 140.)

(50) Tenākālpānta-kālāvadhīr avani-bhujā Śri-Yaśodharmmañāyaṁ, sthambhaḥ sthambhābhirāma-sthira-bhujā-parigheṇochchhritiṁ nāyito'ttra 11.

This is one of the two Rapa-stambhas or columns of victory in war at Mandasor. Their architectural characteristics are given by Dr. Fleet :

Of the first one he says 'The base of it is rectangular, about 3' 4" square by 4' 5" high . . . From this base there rises a sixteen-sided shaft, each of which is about 8½" broad, where it starts from the base . . . The total length of which (the shaft) was thus about 39' 3" or 34' 10" above the base . . . The next part of this column, the lower part of the capital, . . . is a fluted bell, about 2' 6" high and 3' 2" in diameter, almost identical in design with the corresponding part of a small pillar from an old Gupta temple at Sanchi, drawn by General Cunningham (in the

*Arch. Surv. Ind.*, Vol. x, plate xxxii, no. 1 . . . ). The total length of this column, up to the top of the lion-capital, is about 44' 5", or forty feet above the ground, if it stood with the entire base buried. The square lion-capital must have surmounted by a statue or statues, of the same kind as that which stands on the summit of the column at Eran.—(See above and *Arch. Surv. Ind.*, Vol. x. p. 81 and plate xxvi.)

'The base (of the other column about 20 yards north) is rectangular, about 3' 3" square by 3' 11" high. Differing from the first column, the base is followed by a concave circular part, about 1' 0" high . . . From this there rises a sixteen-sided shaft, each face of which is about 8" broad, where it starts from the base . . . This column also tapers slightly from bottom to top . . . the fluted bell part of the capital, about 3' 0" high and 3' 3" in diameter (is) similar in design to the same part of the capital of the other pillar . . . the top has one circular and eight rectangular socket-holes, just as in the top of the lion-capital of the first column.'

'The two inscribed columns were evidently intended as a pair, though the full view of the second cannot be taken. (From the distance between them, from the difference in the detailed measures, and from the analogous instance of the Eran column, as shewing the way in which they must have been finished off at the top, they can hardly have been connected by a beam, after the fashion of a toraṇa or arched gateway; and there are no traces of any temple to which they can have belonged). They are evidently an actual instance of two Raṇa-stambhas or "columns of victory in war," such as the Kauṭhem grant of Vikramāditya V (*Ind. Ant.*, Vol. xvi, p. 18) . . . speaks of as having been set up by the Rāshṭrakūṭa king Karkara or Kakka III, and as having then been cut asunder in battle by the western Chalukya king Taila II.—(*C. I. I.*, Vol. iii, F. G. I., no. 33, line 7, pp. 147, 143 f.)

(51) 'The inscription (Pahladpur stone pillar inscription, F. G. I., no. 57) is on a sandstone monolith column about 3 feet in diameter, polished and rounded for a length of 27 feet; with a rough base of 9 feet, the total length being 36 feet . . . in or about 1853 removed to Benares and set up in the grounds of the Sanskrit College there.'

(*C. I. I.*, Vol. iii, F. G. I., no. 57, p. 249 f.)

(52) Kṛitau puṇḍarīke yūpo'yaṁ pratishṭhāpitas . . . Varikeṇa ।

'On the ceremony of the Puṇḍarīka sacrifice (having been performed), this *sacrificial* post has been caused to be set up by the Varika.'

The architectural characteristics of this (*sacrificial*) column are given by Dr. Fleet: 'The pillar (Bijayagadh stone pillar inscrip. of Viṣṇu-varḍhana of A.D. 372) stands on a rubble masonry platform (which is

plainly of much more recent construction than the pillar itself), which is about 13' 6" high and 9' 2" square at the top. The height of the pillar above the plinth is 26' 3". The base is square, to the height of 3' 8", each face measuring 1' 6". Above this, the pillar is octagonal, for a length of 22' 7", and it then tapers off to a point. The extreme top is however broken; and a metal spike, which projects from it, indicates that it was originally surmounted by a capital on the south side of the pillar, towards the top of the square base there is engraved a Śrīyogī Vra(Bra)hma-sāgara (the holy ascetic, Brahma-sāgara).'

This may be compared with the Brahma-kānta column of the *Mānasāra*,  
(Bijayagadh stone pillar inscrip. of Viṣṇu, vardhana, line 3, *C. I. I.*, Vol. II, F. G. I. no. 59, pp. 253, 252.)

(53) Sphārā kūpāra-tīrāvāli-nihata-jaya-stambha-vinyasta-kirttiḥ |

'Who has deposited his fame in pillars of victory, which he erected in an uninterrupted line on the shore of the great ocean.'

(Vijayanagara inscrip. of Devarāja II, v. 5, *H.S.I.I.*, Vol. I, no. 153, pp. 163, 165.)

(54) Sakra-pratāpas tri-bhuvana-vīyaya-stambham ambhodhi-tīre ||

Puṇye sahyādri-śringe tri-bhuvana-vijaya-stambham ambhodhi-pāre |

(Tiruvallam inscrip. of Rajaraja, v. 1, 2, *H.S.I.I.*, Vol. I, no. 155, p. 168.)

(55) Trailokya-nagarārambhā-mūla-stambhāya Śambhave ||

'Adored be Śiva, the original foundation-pillar of the city of the three worlds.'—(*Ep. Carnat.*, Vol. I, no. 11, pp. 35, 57, first para.)

(56) Hire-chavutiya-Rāmeśvara-devara-gudiya-kallu-kelasa mādisi dipamāle-kambada—'had the temple of Rāmeśvara in Hire-Chavuti built of stone and erected a dipa-māle pillar.'—(*Ep. Carnat.*, Vol. VIII, Part I, Sorab Taluq, no. 238; Roman text, p. 77.; Transl., p. 37.)

(57) When Sivappa-Nāyaka was protecting the kingdom in righteousness (on a date specified), through the agency of Siddha-Basappayyā of the treasury, this dhvaja-stambha (or flag-staff) was set up.'

(*Ep. Carnat.*, Vol. VIII, Part I, Sagar Taluq, no. 38; Transl., p. 97.)

(58) 'In order that they both might acquire merit (the couple), informed the guru that they would erect a māna-stambha in front of the Nemiśvara chaityālaya which their grandfather, Yojana Śreṣṭhi, had built. . . . On a propitious day they carried out their promise and had a pillar of bell-metal made. Meanwhile, to Devarasa were born twin daughters, Padmarasi and Devarasi, and taking that as an auspicious omen, they had the bell-metal pillar, which had been made, set up in front of the chaityālaya. And upon the pillar they fixed a golden kalāśa of the same height as that of the twins, Padmarasi and Devarasi.'

‘ To describe the māna-stambha :—In dimension like a mast of the great ship of dharma and in the midst of the group (of temples) the māna-stambha (towered up) as if gathering the constellations in the sky like flowers with which to worship the feet of the four Jaina images.’

‘ In front of Nemiśvara Jina’s temple, a māna-stambha of polished bell-metal, with a golden kalaśa, on the instruction of Abhinava-Saman-tabhadrā-Nāgappa-Śreṣṭhi’s son, Ambvaṇa-Śreṣṭhi caused to be made a rod for the umbrella of dharmma. Thus did they have the māna-stambha made.’

(*Ep. Carnat.*, Vol. viii, Part 1, Sagar Taluq, no. 55 ; Roman text, p. 192 f. ; Transl., p. 102, last two paras.)

(59) When the Mahāmaṇḍalesvara Śāluvendra-mahārāja, without any enemies, was ruling the kindgom in peace :—with beautiful lofty chaityālayas, with groups of maṇḍapas, with māna-stambhas of bell-metal with pleasure-groves for the town, with many images of metal and stone.

(*Ibid.*, no. 163 ; Roman text, p. 234, line 27 ; Transl., p. 124.)

(60) ‘ Glorious with a māna-stambha, a lotus pond and a moat.’

(*Ep. Carnat.*, Vol. viii, Part 1, Tirthahalli Taluq, no. 166 ; Transl., p. 196, second para.)

(61) Dīpa-māleya-kambha—lamp-stand-pillar.—(*Ibid.*, Sagar Taluq, no. 60 ; Roman text, p. 194, third line from the bottom upwards, and p. 103 ; Transl., p. 103, second para.)

(62) ‘ Bommanna-setṭi’s son Māchirūśa-setṭi had this dipamāle pillar (dīpa-māleya-kambhakke) made.’

This inscription is ‘ at the base of Garuḍa-kambha in front of the Gopāla-Kṛiṣṇa temple in the fort.’—(*Ep. Carnat.*, Vol. ix, Bangalore Taluq, no. 16, Transl., p. 7 ; Roman text, p. 9.)

(63) ‘ Heggunda Baira-Dāsa’s son Māra-Dāsa, for the god Śiva-gangenātha, on the rock in front of the Māchaśāle set up this dipamāle pillar.’ (Kambha).—(*Ibid.*, Vol. ix, Nelamangala Taluq, no. 37 ; Roman text p. 59 ; Transl., p. 49.)

(64) ‘ Chika-Ankiya-Nāyaka, from love to the god Tirumalenātha, set up in front of it this dipamāle pillar’ (Kambha).—(*Ibid.*, Vol. ix, Devanhalli Taluq, no. 40 ; Roman text, p. 97 ; Transl., p. 79.)

(65) ‘ Chandalir-Deva-rāvutta had this dipamāle pillar made for the god of Varadarāja of Vogatṭa.’—(*Ibid.*, Vol. ix, Hoskote taluq, no. 131 ; Roman text, p. 128 ; Transl., p. 104.)

(66) ‘ Who (Śrī-Rājendra-deva), having conquered the Iraṭṭapāḍi seven and a half lakh (country), set up a pillar of victory (jaya-stambha) at Kollāpuram.’—(*Ep. Carnat.*, Vol. x, Kolar Taluq, no. 107 ; Roman text, p. 35 ; Transl., p. 35.)



(67) 'Had this māna-stambha made.'—(*Ibid.*, Mulbagal Taluq, no. 59; Transl., p. 91.)

(68) 'Set up the yūpa-stambha for the Sarvaprishṭha and Āptoryāma (sacrifices).'—(*Ibid.*, Vol. x, Bagehalli Taluq, no. 17; Transl., p. 233.)

(69) 'Those who did the work (Devāmbudhi tank) :

Gaṇṭemadana Basavana made the pillars (kambha), Komaraiya the ornamental work, and the stone-veḍḍa Chenne-Boyi built the stones of the embankment.'—(*Ep. Carnat.*, Vol. xii, Tumkur taluq, no. 24; Transl., p. 8, para. 2.)

(70) Harmya-mūla-stambhanum—'foundation pillar of the palace.'

(*Ibid.*, Gubbi Taluq, no. 13; Roman text, p. 36, second line of the first prose portion; Transl., p. 19, para. 3.)

(71) Liṅga-mudre-stambha—'pillar marked with the liṅga.'

(*Ibid.*, Vol. xii, Tiptur Taluq, no. 108; Roman text, p. 102; Transl., p. 64.)

(72) 'We have had the village built, set up (the god) Sañjivarāya, erected this Garuḍa-Kambha, and had this tank and well constructed.'

(*Ibid.*, Sira Taluq, no. 92; Transl., p. 101, line 2 f.)

(73) 'The roof of this hall is supported by four very elaborately carved columns, nearly square at the base, changing into octagons at a little above one-third their height. The capitals are circular under square abaci. These again are surmounted by square dwarf columns terminating in the usual bracket capitals of the older Hindu works.'

(The temple of Amarnath, *Ind. Ant.*, Vol. iii, p. 317, c. 2, para. 1, middle.)

(74) Mālākārāya Mugu (pālitasya de)yadharmāḥ stambhaḥ ॥

'This pillar is the benefaction of the gardener Mugupālita.'

(*Ind. Ant.*, Vol. vii, Kuda inscrip., no. 9, pp. 256-257.)

(75) 'This inscription (Inscriptions from Nepal, no. 1, dated Samvat 386) is incised on the lower part of the broken pillar placed to the left of the door of the temple of Chaṅgu-Nārāyaṇa, about five miles to the north-east of Kāṭmāṇḍu. The pillar about 20 feet high is without the capital. Its lower half is square, half of the upper part is octagonal, higher up it becomes sixteen-cornered and finally round. Originally it was crowned by a lotus-capital surmounted by a Garuḍa, about 4 feet high, shaped like a winged man kneeling on one knee. The workmanship is very good, and the figure shews the flowing locks, which occur frequently on the sculptures of the Gupta period.' Pandit Bhagwanlal Indraji and Dr. G. Bühler.—(*Ind. Ant.*, Vol. ix, p. 163, c. 1, para. 2.)

(76) 'Just outside the south-west gate of the village there is a modern shrine of the god Hanumanta, with a stone dhvajastambha standing in

front of it. Into the pedestal of this dhvaja-stambha there has been built a virgal on monumental stone.' Dr. Fleet.—(Sanskrit and Old Canarese inscrip., no. LXXX, *Ind. Ant.*, Vol. IX, p. 96.)

(77) 'There stands a monolith pillar (on which the inscription referred to below is engraved) apparently of red sandstone. The pillar is called Lakshmi-Kambha or the "pillar of the goddess Lakshmi," and is worshipped as a god.'

'The upper part of the pillar is octagonal. Below the octagonal part of the pillar is a square four-sided division.'

(*Ibid.*, no. CXXI, *Ind. Ant.*, Vol. X, pp. 168, 169.)

(In villages of eastern Bengal there is a custom to call one of the pillars in the house of each family, the Lakshmi pillar and to worship it as a god.)

(78) The central tower or compartment of each face is ornamented simply by sixteen-sided pilasters at the angles . . . the pilasters are octagonal, whilst the outer compartments or towers at the four corners of the temple have plain square pillars and pilasters.'—(Gangai-Kondapuram Śaiva Temple, *Ind. Ant.*, Vol. IX, p. 117, c. 2.)

(79) Bhagvato Budhasa puva-dāre āyakakaṁ 5 sava niyute apano deyadhamma savatāṇa hata-sukhāya patiḥāpitati (no. 1, line 5-6).  
 Bhagvato Budhasa mahā-chetiya (puva) dāre āya(ka)-khambhe pañcha 5 savamyute āpano deyadhammaṁ (no. II, line 6.)  
 Bhagvato Budhasa mahā-chetiya puva-dāre āyaka-khambhe save niyute apano deyadhamma sava-satānaṁ hita-sukhāya patiḥāvitati ||

Erected near the eastern gate of divine Buddha, five (5) Ayaka-pillars which were dedicated for the good and the welfare of all living beings.

'I am unable to say at present what is meant by the epithet ayaka or āyaka. It is possible to connect it either with āryaka "venerable" or with ayas "iron, metal." But I think it more likely that the word has some technical meaning. Dr. Bühler.

'I would suggest "lofty" or "frontal"; they were pillars about 16 feet high, erected on the east front of the stūpa, exactly as represented on the Amarāvati slabs bearing representations of stūpas.' Dr. Burgess.

(Inscrip. from Jaggayyapetta, nos. 1, II, III, *Ind. Ant.*, Vol. XI, pp. 258, note 5: 259.)

(80) Prathama-vihita-kīrtti-praudha-yajña-kriyāsu pratikṛitim iva nav-yārṇ maṇḍape yūpa-rūpām |

Iha Kanakhala-Śambhoḥ sadmani stambha-mālām amala-kashaṇa-pāshāṇasya sa vyātātāna ||

'He erected in the maṇḍapa of this temple of Kanakhala-Śambhu a row of pillars made of pure black stone and shaped like sacrificial posts,

a modern imitation, as it were (of those which were used) for the high famed sacrifices of yore.'

(An Ābu inscrip. of the reign of Bhimadeva II, v. 12, *Ind. Ant.*, Vol. XI, p. 221, c. 2 ; p. 222, c. 2.)

(81) Thabha, thabhā, thāmbha, thambhā (pillar, pillars, stambha or sthambhāh) gift of some person or persons.—(Bharaut inscrip., nos. 22, 25, 26, 35, 37, 64, 66, 67, 69, 70, 71, 75, 81, 88, 90, 94, 96, 97, *Ind. Ant.*, Vol. XXI, p. 227 f.)

(82) " In one of the inscriptions (the one entitled I, A. of Bhagavanlal and Bühler), the interpretation of which, it is true, is very doubtful, it would seem that reference is made to an army, to war and victory ; and if so, the pillar would have been both a dharma-stambha and a jaya-stambha, a monument of devotion and a trophy of victory.'—(The inscrip. P. on the Mathura lion-capital, *Ind. Ant.*, Vol. XXXVII, p. 245, para. 3, last sentence.)

(83) ' Caused basadis and māna-stambhas to be erected in numerous places.

' Māna-stambha is the name given to the elegant tall pillars with a small pinnacled maṭṭapa at the top erected in front of the Jaina temples.'—(See photographs nos. 149, 155, Fergusson, *Ind. and East. Arch.*, pp. 270, 276, and his description quoted below).—(*Ep. Carnat.*, Vol. II, inscrip. on Chandragiri, Śrāvaṇa Belgola, no. 38 ; Transl., p. 121, line 5 ; Roman text, p. 7, line 16 ; Introduction, p. 19, note 2.)

(84) ' The sub-base (of these māna-stambhas, photo nos. 149, 155) is square and spreading ; the base itself is square, changing into an octagon and thence into a polygonal figure approaching a circle ; and above a wide-spreading capital of most elaborate design. To many this may at first appear top-heavy, but it is not so in reality. If you erect a pillar at all, it ought to have something to carry. Those we erect are copied from pillars meant to support architraves and are absurd solocisms when merely supporting statues ; we have, however, not accustomed to them and our eye is offended if anything better proportioned to the work to be done is proposed ; but looking at the breadth of the base and the strength of the shaft, anything less than here exhibited would be found disproportionately small.'

' On the tower or square part of these (māna)-stambhas we find that curious interlaced basket-pattern, which is so familiar to us from Irish manuscripts or the ornaments on the Irish crosses . . . it is equally common in Armenia and can be traced up the valley of the Danube into central Europe, but how it got to the west coast of India we do not know, nor have we, so far as I know, any indication on which we can rely for its introduction.'

(Under the circumstances, is it not easy and reasonable to give the credit of the invention to the Indian architects ?).

(Fergusson, *Ind. and East. Arch.*, pp. 276, 277.)

(85) Śilā-stambhaṃ sthāpayati sma—'caused a stone pillar to be erected.'—(*Ep. Carnat.*, Vol. II, no. 46 ; Roman text, p. 22, line 5, from bottom upwards ; Transl., p. 127, line 6.)

(86) Tasya Jayastambha-ñibhañ śilayā stambhaṃ vyavasthāpayati sma Lakshmiḥ—'a stone pillar (for her) as if a pillar of victory, did Lakshmi erect.'—(*Ibid.*, no. 49, last verse ; Roman text, p. 28 ; Transl., p. 128.)

(87) Śrī-Gommaṭa-Jina-pādāgrada chhāgada Kambakke yakshanaṃ māḍisidam—'For the pillar of gifts in front of Śrī-Gommaṭa Jinapa, he had a Yaksha made.'—(*Ep. Carnat.*, Vol. II, no. 110 ; Roman text, p. 86 ; Transl., p. 170.)

(88) 'Bāchappa, son of Kirtti of Aruhanahaḷḷi, on the death of his elder brother Tammarappa, in conjunction with that deva's queen Bayichākkā, had his form engraved on a pillar (kambha) and set it up.'—(*Ep. Carnat.*, Vol. III, Maḷavaḷḷi Taluq, no. 13 ; Transl., p. 56 ; Roman text, p. 116.)

(89) 'The royal karaṇika Devarasa set up in the name of his father . . . a Dīpa-stambha.'—(*Ep. Carnat.*, Vol. IV, Chāmarājnagar Taluq, no. 156, Transl., p. 20.)

(90) 'Made a grant of a Dīpa-māla pillar (kambha) for the god Lakshmi-kānta.'—(*Ep. Carnat.*, Vol. IV, Heggāḍadevankote Taluq, no. 21 ; Transl., p. 70 ; Roman text, p. 117.)

(91) 'He made a brass ornament for the Dhvaja-stambha (flagstaff) of the goddess Mahālakshmi and the goddess Sarasvatī of Kannambāḍi.'—(*Ep. Carnat.*, Vol. IV, Krishṇarājapeṭ Taluq, no. 23 ; Transl., p. 103.)

(92) 'The great minister caused to be erected a dīpti-stambha for the Kṛittikā festival of lights (Kṛittikā-dīpotsavake dīpti-stambha) and a swing for the swinging cradle festival of the god Chenna-Keśava of Velāpura.'—(*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 14 ; Transl., p. 47, Roman text, p. 107.)

(93) 'While thus all the world was praising him as the founder of the greatness and increase of king Ballala and the cause of his prosperity—the daṇḍiśa Lakshma, together with his wife, mounted up on the splendid stone pillar (Śilā-stambha) covered with the poetical Vīra-śāsaṇa, proclaiming his devotion to his master. And on the pillar they became united (:) with Lakshmi and with Garuḍa.'—(*Ep. Carnat.*, Vol. V, Part I, Belur Taluq, no. 112 ; Transl., p. 74, last para. ; Roman text, pp. 173, 174.)

(94) 'He erected temples, raised pillars for lights (Dīpa-māle), granted lands to Brāhmins till they were satisfied, constructed five forts and large

tanks.'—(*Ep. Carnat.*, Vol. v, Part 1, Ariṅkere Taluq, no. 109; *Transl.*, p. 159, para. 1; *Roman text*, p. 365.)

(95) 'Dīpa-mālā-kambha' and 'Basava-pillar.'—(*Ibid.*, Channarayapatna Taluq, nos. 155, 165; *Transl.*, pp. 195, 198.)

(96) 'The unshaken pillar (Tolagada kambha).'—(*Ep. Carnat.*, Vol. vi, Tarikere Taluq, no. 12; *Transl.*, p. 105.)

(97) 'Taking that to mind and desirous of performing a work of merit, the king Lakshma built of stone that abode of Jina, as if erected by Indra to endure in permanence, and afterwards set up a stone pillar (Silā-stambha) at the great gateway of the temple, on which was inscribed a śāsana containing all his names and titles, to continue as long as sun, moon and stars.'—(*Ep. Carnat.*, Vol. vii, Shikarpur Taluq, no. 136; *Transl.*, p. 103, para. 3, last sentence; *Roman text*, p. 184, line 10, from bottom upwards.)

(98) 'Several persons (named) set up this vīra-stambha in his name.'—(*Ep. Carnat.*, Vol. xi, Chaḷḷakere Taluq, no. 42; *Transl.*, p. 102; *Roman text*, p. 176.)

(99) 'The mahā-maṇḍalesvara Chāmuṇḍa-Rāyarasa (on the date specified) erected a Gaṇḍa-bheruṇḍa pillar (stambha) in front of the (temple of the) god Jagad-eka-malleśvara.'—(*Ibid.*, no. 151; *Transl.*, p. 109, para. 2; *Roman text*, p. 193, last para.)

(100) 'The most striking object standing in the village is perhaps the Bheruṇḍeśvara pillar, now called the Garuḍa-kambha. It is a lofty and elegant monolith, with a figure of the Gaṇḍa Bheruṇḍa at the top. It was erected, according to the inscription on its base (quoted above, Shikarpur Taluq, no. 151) by Chāmuṇḍa-Rāya in 1047, and probably fixed the length of the Bheruṇḍa pole used in measuring length (refers to inscrip. no. 120 of the Shikarpur Taluq).

' Its dimensions are as follows : The shaft, to the top of the cornice of the capital, 30 feet 6 inches high the Bheruṇḍeśvara at top, about 4 feet high, the bottom of the pillar is 1 foot 6 inches square to 8 feet from the ground, above that it is circular, of the same diameter, with decorative bands. The Bheruṇḍa is a double-headed eagle with human body.'

(*Ep. Carnat.*, Vol. ii, *Introduct.*, p. 47, note 1.)

(100a) The dimensions of the Tāḷagunda pillar, on which the inscrip. no. 176 of the Shikarpur Taluq is incised, are given by Mr. Rice : ' The pillar, which is of a very hard dark grey granite, is standing in front of the ruined Praṇaveśvara temple. Its pedestal is 5 feet 4 inches high and 1 foot 4 inches square at the top, a little more at the base. The shaft is octagonal, 6 feet 4 inches high, each face being 7 inches wide, but tapering slightly towards the top. The finial is a pear-shaped ornament, 1 foot 11 inches high.'—(*Ep. Carnat.*, Vol. vii, *Introduct.*, p. 47, para. 2.)

(101) Mahā-rathisa Goti-putrasa Agni-mitraṅakasa siha-thabho dānam—  
‘The gift of a lion-pillar (Simha-stambha) by the Mahā-rathi Agni-mitra-  
ṅaka, the son of Goti.’—(Karle inscrip. no. 2, *Arch. Surv.*, New Imp. Series,  
Vol. iv, p. 90.)

(102) ‘On the east side, steps lead up to a platform on which stands a  
fine Kirtti-stambha or Torāṇa arch. It consists of two highly carved  
pillars, 4 feet broad at the plinth, and rising to a height of 13 feet 10 inches  
including a broad cruciform capital, whose inner arms support the orna-  
mental torāṇa or cusped arch, over this capital a prolongation of the shaft  
supports a sur-capital, 3 feet above the first, over which again lies the  
architrave in two fasciæ richly carved. . . . This supports the  
projecting cornice with its decorative guttae, surmounted by a plinth and on  
this stands the pediment in which Śiva or Bhairava is the central figure.’

(Ahmadabad Architecture, Burgess, *Arch. Surv.*, New  
Imp. Series, Vol. xxxiii, p. 94, Plate lxxxii.)

(103) ‘He set up Rāma in the Koṅḍarāma temple. Subsequently  
Janmejaya performed the serpent sacrifice here, a stone pillar, about 9 feet  
high, with the top fashioned like a trident or spear . . . being pointed  
out as the Yūpa-stambha or sacrificial post used by him.’—(*Mysore Arch.  
Report*, 1915-16, p. 21, Plate x, Fig. 1, on page 22.)

(104) See Buddhist cave temples (*Arch. Surv.*, New Imp. Series, Vol.  
iv, Plates xviii, nos. 1-2; xxii, nos. 1-3; xxxix, no. 3).

See Sharqi Architecture of Jaunpur (*Arch. Surv.*, New Imp. Series, Vol. xi,  
Plates xxxix, Figs. 1, 2, 3, 4; xl, Fig. 2; and read the inscrip. no. xxvii,  
p. 51, under ŚILPIN and STHAPATI).

Cf. Moghul Architecture of Fatehpur-Sikri (Smith, *Arch. Surv.*, New Imp.  
Series, Vol. xviii, Part 1, Plates liii to lxxi).

See Rām Rāz, *Essay on Arch. of Hind.*, Plates iv to xviii.

See Lion-pillar (*Mysore Arch. Report*, 1915-16, Plate vii, Fig. 1, p. 14).

See Elephant pillars, Brahma-deva-pillar (*ibid.*, 1914-15, Plates ix, Fig.  
3; xiii, Fig. 1, pp. 18, 26).

See pillars of Mukha-maṅṭapa with a stone umbrella in front.—(*Ibid.*,  
1913-14, Plate v, Fig. 1, p. 14.)

(105) See Cunningham, *Arch. Surv. Reports*, Vol. 1, Plate xxii (Bakhra  
and Lauriya Lion pillars), p. 58; xxix (Kahaon and Bhitari pillars), p. 92;  
xlvi (capital of Aśoka Elephant pillar), p. 274.

*Ibid.*, Vol. iii, Plate xxxiv (Gaya granite pillars).

*Ibid.*, Vol. iv, Plate v, the so-called Kutb-Minar, which is in reality a  
Hindu structure.

Cf. its details—‘Total length of outer enclosure is 228 feet . . . The  
law of geometrical proportion is thus seen to govern the entire Hindu

Kutb structure ; from the size and the disposition of the inclosures which bound it down to the spacing of the ornamental bands that adorn its gates, every important feature is subject to the great law. But where is the law that governs the Muhammadan structures? They (the Muhammadans) designed like giants, and their Hindu workmen " finished like jewellers " ; but from the giant killed by jack, right through the whole genus, giants have hitherto been noted only for supreme stupidity, combined with immense strength. '—(Cunningham's *Arch. Surv. Reports*. Vol. iv, pp. 56-67.)

*Ibid.*, Vol. v, Plates xxvii (Mallot temple pillar) ; xlv, xlvi (Indo-Per-  
sian pillars) ; xlvii to l (Indo-Corinthian pillars).

*Ibid.*, Vol. vi, Plate xx (Viśāla-deva temple pillar).

*Ibid.*, Vol. vii, Plates xviii (Sati pillar from Simga ; the details of its mouldings) ; ix (section of interior of garbha-griha shewing a pillar in elevation) ; x (elevation of a pillar of the Mahā-maṇḍapa).

*Ibid.*, Vol. viii, Plates xi, xii (brick pillar, Balrāmpur).

*Ibid.*, Vol. ix, Plates xiv, xxiv, xxix.

*Ibid.*, Vol. x, Plates xiv (Besnagar Crocodile and Fan-palm pillars, p. 42) ;  
xxi (pillar of Swāmi-Gosura) ; xxii, Figs. 1, 2 (Sanchi pillars), 3 (Eran  
pillar), 4, 5 (Udayagiri pillars) ; xxvii (Eran pillar) ; xxviii (Toran-pillar) ;  
xxx (Eran pillar of Narasinha temple).

*Ibid.*, Vol. xiv, Plates xxxix, xxx (Sati pillars).

*Ibid.*, Vol. xvi, Plates xxx, xxxi (Bhagalpur pillar).

*Ibid.*, Vol. xix, Plate x (Bajjnath pillar).

*Ibid.*, Vol. xx, p. 149, Plate xxxiv (Thieves pillars).

*Ibid.*, Vol. xxii, Plate vii (Section of Aśoka pillar, Rampurwa).

*Ibid.*, Vol. xxiii, Plate xxii (pillar of victory or Jaya-stambha).

(106) ' These pillars are common to all the styles of Indian architecture. With the Buddhists they were employed to bear inscriptions on their shafts, with emblems or animals on their capitals. With the Jains they were generally Deepadans (Dipa-stambhas) or lamp-bearing pillars ; with the Vaiṣṇavas they as generally bore statues of Garuḍa or Hanūmān (Garuḍa-stambhas) ; with the Śaivas they were flagstaffs (Dhvaja-stambhas) ; but whatever their destination they were always the most original, and frequently the most elegant productions of Indian art.'—(Fergusson, *Hist. of Ind. and East. Arch.*, p. 50.)

' If any one wished to select one feature of Indian architecture which would illustrate its rise and progress, as well as its perfection and weakness, there are probably no objects more suited for this purpose than these stambhas or free-standing pillars. They are found of all ages, from the simple and monolithic lats which Aśoka set up to bear inscriptions or emblems, some 250 years B.C. down to the seventeenth or perhaps even eighteenth century of our era. During these 2,000 years they were erected first by the Buddhists

then by the Jains, and occasionally by the other sects in all parts of India ; and notwithstanding their inherent frailty, some fifty—it may be a hundred—are known to be still standing. After the first and most simple, erected by Aśoka, it may be safely asserted that no two are alike though all bear strongly the impress of the age in which they were erected, and all are thoroughly original and Indian in design.’—(Fergusson, *Hist. of Ind. and East. Ach.*, p. 277, para. 2.)

(107) The following references will give a glimpse of the pillars of the pre-Buddhistic periods (especially of the early Vedic period), when, it should be noticed, they were employed both as free-pillars (compare the *yupas*) and as forming the essential members of a building.

‘The column or pillar in Indian architecture is indeed very ancient. The word *Sthūpa* which is a synonym of pillar in the *Mānasāra* is used in the *Ṛig-Veda*<sup>1</sup> and the later literature<sup>2</sup> in the same sense. The word *Stambha*<sup>3</sup> is not perhaps so old but *Skamba*<sup>4</sup> is used in the *Ṛig-Veda* in the same sense.’—(Macdonall and Keith, *Vedic Index*, II, pp. 488, 483.)

The word ‘*upa-mit*,’ not used in the *Mānasāra*, occurs in the *Ṛig-Veda*<sup>5</sup> and the *Atharva-Veda*<sup>6</sup> in the sense of pillar.

According to Professors Macdonall and Keith, in the *Ṛig-Veda* the word ‘*Upa-mit*’ is used in the sense of an upright pillar. In the *Atharva-Veda*, the word, coupled with *Parimit* and *Pratimit*, denotes the beams supporting the *Upamit*. *Parimit* denotes the beams connecting the *Upamit* horizontally.<sup>7</sup>

‘Concerning the proportions of columns, the second sort of column in the Hindu architecture (as depicted in the *Mānasāra*) may be compared with the Tuscan, the third with the Doric, the fourth with the Ionic, and the fifth with the Corinthian or composite pillar.’ (Rām Rāz, *ibid.*, p. 38.)

The following details of the Indian and Greco-Roman orders may be compared here for a clear knowledge of the subject.

Rām Rāz describes the Indian Orders on the authority of the *Kāśyapa* and the *Mānasāra* and ‘partly from the models found in the temples and porticoes of a pure Hindu style.’ And the details of the five Greco-Roman orders are quoted below from Vitruvius, Palladio and others as given by Gwilt.

<sup>1</sup> *R.-V.* I, 59, 1; V, 45, 2; 62, 7; VIII, 17, 14; X, 18, 13 (of the grave).

<sup>2</sup> *A.-V.* III, 12, 6 (of the *varṣā*, beam, being placed on the pillar); XIV, 1, 63

*Śāta-patha-Brahmaṇa*, XIV, 1, 3, 7; 3, 1, 22, etc.  
*Sthūpa-rāja*—main pillar, III, 1, 1, 11; 5, 1, 1.

<sup>3</sup> *Kāṣhaka-Saṁhitā*, XXXI, 1; and often *Sūtras*.

<sup>4</sup> *R.-V.* I, 34, 2; IV, 13, 5, etc.

<sup>5</sup> *R.-V.* I, 59, 1; IV, 5, 1.

<sup>6</sup> *A.-V.* IX, 3, 1.

<sup>7</sup> Cf. Zimmer, *Altindisches Leben*, 153.

<sup>8</sup> *Vedic Index*, I, p. 93.



'The second sort of column is seven diameters in height ; it is placed in most examples upon a base and pedestal ; the base is two diameters high ; it belongs to the species called Kumbha-bandha. The pedestal is equal in height to three-fourths of the base and is of the kind called Vedi-bhadra. The column is also placed . . . only on a pedestal which is equal to half the height of the pillar, and which is one of the sorts called Mañcha-bhadra. The capital given to the first design of this pillar is taken from a model found at Tiruvottiyur, near Madras ; it is the same which *Mānasāra* and others call Taraṅga-Bodhika (?), and is one diameter high and projects equal to its height. Speaking of this sort of capital, *Mānasāra* says " it should be decorated with Taraṅgas (projecting moulding employed in capitals, terminating by a number of undulating lines) and other appropriate ornaments ; the height of the capital being divided into twelve parts, let the form of Taraṅgas occupy three of them, let the Bodhika (capital), which should resemble the cobra de capello, occupy six, and adorned with flowers and the like, and let one part above this be given to . . . one to the cyma, and one to the listel. The projecting part of the Bodhika should be fashioned like the stalk of a plantain flower. At the upper extremity are the Taraṅgas of equal height or something more. The lower part of the head of the Bodhika is one-third on the upper in breadth, and a third of the former being divided into five parts, one of them is given to the cavetto, one to the fillet, two to the cyma and one to the listel ; and the whole should be decorated with foliages, rows of gems, and the like." In another place the same author says " let the capital (Bodhika) be made to consist of one, two, three, four, five, six faces, according to the situation in which it is placed "'

'The other form of capital given to the column is taken from a maṇḍapa at Mayalapur. It is to be met with in many other ancient buildings and is what the artists call in Tamil surub-bodhika, roll capital. I cannot find any particular description of it, except a passage in the *Mānasāra*, which says : " The projecting ornaments on the sides of the capital are made either in the form of an inverted apex or of a wheel (chakra) or circle. It is one diameter in height and projects but three-quarters of the diameter "'— (Rām Rāz, pp. 31-32.)

This is compared with the Tuscan order, the details whereof are given below from Vitruvius and Vignola as quoted by Gwilt.

#### I. Tuscan order :

'Vitruvius (Book iv, Chap. vii) in this order forms the columns six diameter high, and makes their diminution one-quarter of the diameter. He gives to the base and capital each one module in height. No pedestal is given by him. Over the capital he places the architrave of timber in two thicknesses connected together by dovetailed dowels. He, however,

leaves the height unsettled, merely saying that their height should be such as may be suitable to the grandeur of the work where they are used. He directs no frieze, but places over the architrave cantilevers or mutuli projecting one-fourth of the height of the column, including the base and capital. He fixes no measure for the cornice, neither does he give any directions respecting the inter-columniations of this order. The instructions are not so specific as those which he lays down for other orders, and there have been various interpretations of the text, which unfortunately cannot in any of the suppositions be tested on ancient remains.' (Gwilt., *Encycl.*, art. 2556.)

In the following table of the parts of the Tuscan order (Gwilt., *Encycl.* art. 2555) the whole height according to the measuring unit of Vignola is 16 modules and 3 parts :

*Mouldings whereof the parts are composed*

				Heights of mouldings in parts of a module	Projections from the axis of column in parts of a module		
<b>ENTABLATURE</b>							
A. Cornice, 16 parts.	{	Cymatium and parts.	Quarter round ..	4	27½		
			Astragal ..	1			
			Fillet ..	½	23½		
		..	{	..	Congé, or cavetto	1	22½
					Corona ..	5	22½
					Drip ..	1	21½
					Sinking from corona, or hollow ..	½	19½
					Fillet ..	½	14
		Bed moulding ogee	4	13½			
B. Frieze, 14 parts.	..	..	..	14	9½		
C. Archi- trave, 12 parts.	{	Fascia ..	Fillet ..	2	11½		
			..	Congé or small cavetto ..	2	9½	
				Fascia ..	8	9½	
The height of the drip under the corona is taken on that member, and that of the hollow in the height of the fillet.							
<b>COLUMN</b>							
D. Capital, 12 parts.	Abacus	{	Fillet .	1	14½		
			Congé, or cavetto	1	13½		
			Band .	2	13½		

		Heights of mouldings in parts of a module	Projections from the axis of column in parts of a module	
COLUMN				
D. Capital, 12 parts— (concl'd.).	Cymatium	Ovolo ..	3	13½
		Fillet ..	1	10½
		Congé, or cavetto ..	1	9½
	Neck or	Hypotrachelin ..	3	9½
Shaft. 12 modules.	Astragal, or necking	Bead ..	1	11
		Fillet ..	½	10½
		Congé, or cavetto ..	1	9½
	Shaft	Shaft ..	11 mod. 8 parts	9½
E. Base, 12 parts.		Congé, or apo- phyge. ..	1½	12
		Fillet ..	1	13½
		Torus ..	5	16½
		Plinth pedestal ..	6	16½
G. Cornice, 6 parts.	Cymatium	Listel ..	2	20½
		Ogee ..	4	20
F. Die, 44 parts.		Die, or dado ..	3 mod. 4 parts	16½
		Congé, or apo- phyge ..	2	16½
Base, 6 parts.		Fillet ..	1	18½
		Plinth ..	5	20½

The third sort of column, with its base and capital, is eight diameters high, with a diminution of the shaft at the top of the eighth part of the thickness at its bottom. The base occupies half a diameter and this height is to be divided into ten parts. Two to be given to the plinth, one to the fillet, three to the cymatia and its fillet, one and a half to the cavetto, the same to the torus, and one to the cymbia. The whole projection of the base is half of its height. The following passage from the *Mānasāra* refers to this kind of base : ' let a base ornamented with the lotus be made under the foot to the pillars one or two diameters in height, and let it be adorned with figures of demons, lions, and the like.'

The height of the capital, which is made after the manner of the Phalaka, is three-quarters of the lower diameter of the column, and is divided into thirteen parts ; two are given to the abacus, one to the fillet, two to the maṇḍana, seven to the cymarecta, and one to the cymbia. The upper part of the shaft, about one and a half diameters below the capital, being

divided into twenty-four parts, three are given to the collarino with its fillet, three to the ovolo, three to the lower collarino, five to the lower torus with its cymatia, and ten below to the strings of pearls (muktādāma). The projection of the capital is one diameter, or about an eighth part beyond that of the lowest part of the base, the fillet projects the full, and the torus three-quarters of their respective heights.'

The height of the entablature is one-fourth of that of the column. It is to be divided into twenty-one parts : eight are given to the architrave, seven to the cornice, and six to the vyālam (frieze). Of the eight parts of the architrave, one is to be given to the cavetto, three to the tema or benda (uttara) with its listels, two to the cymarecta and to the upper fascia (vājana). Of the seven parts of cornice, one occupies the fillet, and the remainder the ovolo (prastara) ; and of the six parts of the cornice (or frieze, vyāla) three to be given to the cavetto (or fillet, vyājana), two to the prati-vājana (cavetto), and one to the fillet. The projection of the vājana (fillet) of the architrave is equal to that of the capital, that of the prastara (ovolo) is twice as much, and that of the cornice equal to its own height. After making a similar division of the entablature, our author (*Mānasāra*) lays down the following rule respecting the projection of the members. The height of the architrave being divided into four, five, six, seven or eight parts, one should be given to its projection beyond the pillars. The kapota (corona) projects equal to its height, or to three-fourths of it, and the vājana (fillet) one-fourth. The āliṅga (fillet) recedes about one diameter, and the antarita (fillet) projects equal to its own height, and the same may be said of the prati.'—(Rām Rāz, *Ess. Arch. Hind.*, pp. 32, 33.)

This third sort of Rām Rāz's column is apparently without a pedestal, Its base too does not exactly correspond with any of the bases mentioned in the *Mānasāra* (Chap. xiv). None of the *Mānasāra's* eight entablatures consists of twenty-one parts like the one prescribed above for the column under description.

Rām Rāz (p. 38) identifies this column with the doric order, the details whereof are given below from the texts of both Vitruvius, and Vignola, as quoted by Gwilt.

## II. Doric order :

Vitruvius (Book iv, Chap. iii) describes the Doric order more clearly than others. ' In order to set out its proportions, he tells us, though not giving a direct rule, that its pedestal is composed of three parts, the cymatium or cornice, the die and the base : and that the base and the cymatium are composed of many mouldings, whose individual proportions, however, he does not give. He assigns no particular base to the Doric order : but nevertheless, places under half a diameter in height the Attic base, whose

members are the plinth, small fillet, scotia, and the upper torus with its superior and inferior fillets, together with the apophyge of the column. He gives to the projection of the base a fifth part of the diameter of the column. The height of the shaft he makes of six diameters, and its diminution a sixth part of the diameter. The capital's height he makes equal to half a diameter, and divides it into three parts, one for the abacus and its cymatium, another for the echinus and its fillet, the third for the hypotrachelium. To the architrave he assigns the height of one half diameter of the column and to the frieze fifty parts of the module (semi-diameter divided into thirty parts), including the fascia, forming the capital of the triglyphs. His cornice consists of thirty parts of the module and its projection forty. The whole height which he gives to the order is (in the measurement here adopted) seventeen modules and twenty parts.'—(Gwilt, *Encycl.*, art. 2566.)

In the following table all the details of the Doric order are given (Gwilt, *Encycl.*, art. 2566).

*Members composing the orders*

		Heights of mouldings in parts of a module	Projections from the axis of column in parts of a module	
<b>ENTABLATURE</b>				
A. Cornice, 18 parts.	{	Fillet of corona .. ..	1	34
		Cavetto .. ..	3	31
		Fillet .. ..	$\frac{1}{2}$	26
		Cyma reversa .. ..	$1\frac{1}{2}$	30
		Corona .. ..	4	$28\frac{1}{2}$
		Drip .. ..	$\frac{1}{2}$	$27\frac{1}{2}$
		Fillet .. ..	$\frac{1}{2}$	25
		Gutta under the corona ..	$\frac{1}{2}$	$24\frac{1}{2}$
		Dentil .. ..		15
		Fillet .. ..		13
B. Frieze, 18 parts.	{	Cyma reversa .. ..	2	$12\frac{1}{2}$
		Capital of triglyph .. ..	2	11
		Triglyph .. ..	18	$10\frac{1}{2}$
C Archi- trave, 10 parts.	{	Metope .. ..	18	10
		Listel .. ..	2	$11\frac{1}{2}$
		Capital of guttae .. ..	$\frac{1}{2}$	11
		Guttae .. ..	$1\frac{1}{2}$	11
		Fascia .. ..	10	10

		HEIGHTS OF MOUNDINGS IN PARTS OF A MODULE		PROJECTIONS FROM THE AXIS OF COLUMN IN PARTS OF A MODULE	
<b>COLUMN</b>					
D. Capital, 12 parts.	}	Listel .. .. .	1/2	15 1/4	
		Cyma reversa .. .. .	1	15 1/4	
		Band .. .. .	2 1/2	14	
		Echinus or quarter round .. .. .	2 1/2	13 1/4	
		Three annulets .. .. .	1 1/2	11 1/4	
		Neck of capital .. .. .	4	10	
		Astragal .. .. .	1	12	
	{	Ovolo .. .. .	1	12	
		Fillet .. .. .	1/2	11 1/4	
		Congé .. .. .	1 1/2	10	
Shaft of the column, 14 modules.					
E. Base, 12 parts.	}	Apophyge or congé .. .. .	2	12	
		Fillet .. .. .	2/3	14	
		Astragal .. .. .	1 1/2	14 1/4	
		Torus .. .. .	4	17	
		Plinth .. .. .	6	17	
<b>PEDESTAL</b>					
F. Cornice, 6 parts.	}	Listel .. .. .	1/2	23	
		Echinus .. .. .	1	22 1/4	
		Fillet .. .. .	-	21 1/4	
		Corona .. .. .	2 1/2	21	
		Cyma reversa .. .. .	1 1/2	18 1/4	
Die of the pedestal, 4 modules.					
G. Base, 10 parts.	}	Congé .. .. .	1	17	
		Fillet .. .. .	1/2	18	
		Astragal .. .. .	1	18 1/4	
		Inverted cyma .. .. .	2	19	
		Second plinth .. .. .	2 1/2	21	
		First plinth .. .. .	4	21 1/4	

‘ The fourth sort of column is nine diameters high. The base is one of those called Prati-bhadra (*see* under ADHISHTHĀNA), and is one diameter in height. It is without a pedestal.

‘ The base is to be divided into eighteen equal parts, two to be given to the plinth, one to its fillet, three to the cyma recta, three to the cavetto with its listel, three to the torus, three to the upper cavetto, two to the plat-band (pāda-bandha), and one to the cimbra (? cymbia). The

projection of the plinth is one-third of the height of the whole base, the torus and the plat-band project equal to their respective heights.'

'The upper ornaments (? entablature) of this column occupy two diameters, and the capital takes three-quarters of the diameter, which is to be divided into ten parts : two to be given to the abacus, which projects half a diameter, one to the strings of pearls, one to the fillet, four to the cymatia, and one to the circular cymbia. The ornaments under the capital are to be divided into sixteen parts : of which give two to the cavetto or collarino, one and a half to the cyma, four to the torus, which projects perpendicular to the plinth or three-quarters part of its height, one and a half to the lower cyma, three to the lower collarino, two to the astragal, which projects equal to its own height, and two to the third cyma and its fillet, below which a space equal to three diameters is taken up by strings of pearls, but which are omitted in some columns of a similar description.'—(Rām Rāz, p. 34.)

The sources of the details given above are not specified. The account of the entablature, capital and shaft is also not quite clear.

Rām Rāz (p. 38) identifies this column with the Ionic order, the details whereof are given below for comparison, from Vitruvius and Gwilt :

### III. Ionic order :

Vitruvius's description of this order (Book III, Chap. III) is not clear. According to his commentator Daniel Barbaro (Gwilt, *Encycl.*, art. 2577) 'the height of the pedestal is made nearly a third part (including its base and cymatium) of the height of the column. To the base of the column he assigns half a diameter, and to the shaft itself nearly eight diameters, its surface being cut into twenty-four flutes separated by fillets from each other. His method of describing the volute is not thoroughly understood : it is, perhaps, of little importance to trouble ourselves to decipher his directions, seeing that the mode of forming it is derived from mathematical principles, as well understood now as in the days of the author.'

'The architrave he leaves without any fixed dimensions, merely saying that it must be larger or smaller according to the height of the columns. He prescribes, however, that the architrave, frieze, and cornice should together be somewhat less than a sixth part of the height of the column, with its base and capital. The total height he makes for the order, according to our measures, is twenty-five modules and nearly nine parts.'

'Of the Ionic order there are many extant examples, both Grecian and Roman, and except the debased later examples of the latter there is not that wide difference between them that exists between the Grecian and Roman Doric.'

Gwilt (*Encycl.*, art. 2574) gives in the following table the heights and projections of the parts of the order :

*Members composing the order*

				Heights of mouldings in parts of a module	Projections from the axis of column in parts of a module
<b>ENTABLATURE</b>					
	Fillet of cyma	..	..	1½	46
	Cyma recta..	..	..	5	..
	Fillet ..	..	..	½	41
	Cyma reversa	..	..	2	40½
	Corona	..	..	6	38½
A. Cornice,	Fillet of the drip	..	..	1	29½
34 parts.	Ovolo ..	..	..	4	28½
	Astragal ..	..	..	1	25
	Fillet ..	..	..	½	24½
	Dentel fillet	..	..	1½	21
	Dentals ..	..	..	6	24
	Fillet ..	..	..	1	20
	Cyma reversa	..	..	4	19½
B.	Freize ..	..	..	27	15
	Listel ..	..	..	1½	20
C. Archi-	Cyma reversa	..	..	3	19½
trave, 22½	First fascia ..	..	..	7½	17
parts.	Second fascia	..	..	6	16
	Third fascia	..	..	4½	15
	Capital on the side	..	..	19	20
D.	Capital on the coussinet, or cushion	..	..	16	17½
<b>COLUMN</b>					
	Fillet ..	..	..	1	20
	Cyma reversa	..	..	2	19½
	Listel ..	..	..	1	17½
E. Captal,	Channel of the volute	..	..	3	17
17 parts.	Ovolo ..	..	..	5	22
	Astragal ..	{	Bead ..	2	18
		{	Fillet ..	1	17
		{	Congé, or cavetto ..	2	15
	Shaft of the column.	{	Above ..	..	15
		{	16 mod. 6 parts.	..	..
		{	Below ..	..	18



				Heights of mouldings in parts of a module	Projections from axis of column in parts of a module	
<b>COLUMN</b>						
F. Base, 19½ parts.	}	Apophyge.	..	..	2	18
		Fillet	..	..	1½	20
		Torus	..	..	5	22½
		Fillet	..	..	½	20½
		Scotia	..	..	2	20
		Fillet	..	..	½	22
		Two beads	..	..	2	22½
		Fillet	..	..	½	22
		Scotia	..	..	2	21
		Fillet	..	..	½	24
		Plinth	..	..	6	25
		<b>PEDESTAL</b>				
G. Cornice, 11½ parts.	}	Fillet	..	..	¾	35
		Cyma reversa	..	..	1½	34½
		Corona	..	..	3	33½
		Fillet of the drip	..	..	½	30
		Ovolo	..	..	3	29½
		Bead	..	..	1	27
		Fillet	..	..	1	26½
		Congé	..	..	½	25
		Die, 4 modules	..	..	12½	1 mod.7
		Congé	..	..	2	25
H. Base, 10 parts.	}	Fillet	..	..	1	27
		Bead	..	..	1½	28
		Cyma reversa	..	..	3	27½
		Fillet	..	..	¾	31½
		Plinth	..	..	4	33

'The fifth sort of column is ten diameters high, including the base which ought to be three-quarters of the diameter. It should be divided into twelve parts : two for the plinth whose projection is a fourth part of the diameter, one for the fillet, four for the cyma, and one and a half for the cavetto, one for the lesser cyma, one and a half for the torus, and one for the cymbia. The projection of the cyma and torus is equal to their respective heights. This column is sometimes erected on a high pedestal, which is about a third part of the height of the column.'

'The height of the capital, which is called Pushpa-bandha, is equal to the upper diameter of the column : its projection on the side is equal

to its height, and the middlemost square is ornamented with the petals of a lotus. "The altitude of the capital," says Kaśyapa, "may be equal to the higher, lower, or the middle diameter of the column. Its breadth may be equal to its height, or four or five diameters." A capital, the height of which is from one to two diameters, and the breadth twice its height, is of the superior sort; and that which in height is half the diameter, and in breadth from one to three diameters, is of the inferior sort.'

'In colonnades of porticoes; the inter-columniations are found to be from one diameter and a half to two diameters.'—(Rām Rāz, pp. 34-35.)

In this order the description of the entablature is not given. Rām Rāz (p. 38) identifies this 'with the Corinthian or Composite pillar,' the details of both of which are given below for comparison from Vitruvius and Palladio as quoted by Gwilt.

IV. Corinthian order :

'Vitruvius (Book iv, Chap. 1) is scanty in the information he gives on the Corinthian order, and what he says respecting it relates more to the origin of the capital and the like than to the proportion of the detail. He makes the capital only one diameter high, and then forms upon the plan a diagonal two diameters long by means whereof the four faces are equal according to the length of the arc, whose curve will be the ninth part in length and its height the seventh part of the capital. He forms the order with a pedestal, with base and cornice (as Daniel Barbaro would have it). The whole height given to it in our measures is about 27 modules and a parts.'—(Gwilt., *Encycl.*, art. 2587.)

In the following table Gwilt (*Encycl.*, art. 2583) gives, on the authority of Vignola, measurements of the mouldings of the Corinthian order :

*Members composing the order*

		HEIGHTS OF Mouldings in parts of a module	PROJECTIONS from axis of column in parts of a module	
<b>ENTABLATURE</b>				
A. Cornice, 38 parts.	{	Fillet of cornice .. ..	1	53
		Cyma recta .. ..	5	53
		Fillet .. ..	$\frac{1}{2}$	48
		Cyma reversa .. ..	$1\frac{1}{2}$	$45\frac{1}{2}$
		Corona .. ..	5	46
		Cyma reversa .. ..	$1\frac{1}{2}$	$45\frac{1}{2}$
		Modillion .. ..	6	$44\frac{1}{2}$
		Fillet (remainder of band) .. ..	$\frac{1}{2}$	$28\frac{1}{2}$
		Ovolo .. ..	4	28

Heights of  
mouldings  
in parts of  
a module

Projections  
from axis  
of column  
in parts of  
a module

ENTABLATURE

A. Cornice, 38 parts.	{	Bead .. .. .	1	25
		Fillet .. .. .	$\frac{1}{2}$	24 $\frac{1}{2}$
		Dentils .. .. .	6	24
		Fillet .. .. .	$\frac{1}{2}$	20
		Hollow or congé .. .. .	3	19 $\frac{1}{2}$
B. .. .. .	Frieze, 1 mod. 7 $\frac{1}{2}$ parts high	..	..	15
C. Archi- trave, 27 parts.	{	Fillet .. .. .	1	20
		Cyma reversa .. .. .	4	19 $\frac{1}{2}$
		Bead .. .. .	1	17
		First fascia .. .. .	7	16 $\frac{1}{2}$
		Cyma reversa .. .. .	2	16 $\frac{1}{2}$
		Second fascia .. .. .	6	15 $\frac{1}{2}$
		Bead .. .. .	1	15 $\frac{1}{2}$
	Third fascia .. .. .	5	15	

COLUMN

D. Capital, 42 parts (Fig. 890).	{	Echinus .. .. .	2	diagonally 36, on plane 33 $\frac{1}{2}$	
		Fillet .. .. .	1		
		Lower member of abacus .. .. .	3		
		Inverted echinus of the bell .. .. .	2	22 $\frac{1}{2}$	
		Large volutes .. .. .	6	31 $\frac{1}{2}$	
		Upper small leaves .. .. .	4		
		Large leaves .. .. .	12	at top, 24 $\frac{1}{2}$	
		Lower leaves .. .. .	12	at top, 20 $\frac{1}{2}$	
Shaft, 17 modules 1 $\frac{1}{2}$ parts.	{	Astragal .. .. .	2	18	
		Fillet .. .. .	1	17	
		Congé .. .. .	2 $\frac{1}{2}$		
		Shaft .. .. .	upper part	..	15
			lower part	..	18
		Apophyge .. .. .	2	20	
Fillet .. .. .	1 $\frac{1}{2}$	21 $\frac{1}{2}$			

				Heights of mouldings in parts of a module	Projections from axis of column in parts of a module
<b>COLUMN</b>					
	Torus	..	..	3	22
	Fillet	..	..	$\frac{1}{4}$	$20\frac{1}{4}$
	Scotia	..	..	$1\frac{1}{2}$	20
	Fillet	..	..	$\frac{1}{4}$	$20\frac{3}{4}$
E. Base, $14\frac{1}{2}$ parts.	Two beads	..	..	1	22
	Fillet	..	..	$\frac{1}{4}$	$21\frac{1}{4}$
	Scotia	..	..	$1\frac{1}{2}$	$21\frac{3}{4}$
	Fillet	..	..	$\frac{1}{4}$	23
	Torus	..	..	4	25
	Plinth	..	..	6	25
	<b>PEDESTAL</b>				
	Fillet	..	..	$\frac{3}{4}$	$33\frac{1}{4}$
	Cyma reversa	..	..	$1\frac{1}{4}$	$33\frac{1}{4}$
	Corona	..	..	3	32
F. Cornice, $14\frac{1}{2}$ parts.	Throat	..	..	$1\frac{1}{4}$	$30\frac{3}{4}$
	Bead	..	..	1	$26\frac{1}{4}$
	Fillet	..	..	$\frac{3}{4}$	$25\frac{1}{4}$
	Frieze	..	..	5	25
	Bead	..	..	$1\frac{1}{4}$	$26\frac{1}{4}$
	Fillet	..	..	$\frac{3}{4}$	$26\frac{1}{4}$
	Die, $91\frac{1}{2}$ parts.	Congé	..	..	$1\frac{1}{2}$
Die		..	..	$87\frac{1}{4}$	25
Fillet		..	..	$1\frac{1}{2}$	25
Congé		..	..	$\frac{3}{4}$	$26\frac{1}{4}$
Bead		..	..	$1\frac{1}{4}$	$27\frac{1}{4}$
G. Base, $14\frac{1}{2}$ parts.	Inverted cyma reversa	..	..	3	$26\frac{3}{4}$
	Fillet	..	..	1	$30\frac{3}{4}$
	Torus	..	..	3	$32\frac{1}{4}$
	Plinth	..	..	6	$32\frac{1}{4}$

V. Composite order (compound of Corinthian and Ionic) :

Vitruvius has not given any instructions on this order. Gwilt (*Encycl.*, art. 2596) gives Palladio's details of this order. 'To the pedestal's height this master assigns 3 diameters and three-eighths of the column adding to it a lower plinth of the height of half a diameter. He makes the base of the column half a diameter in height and assigns to the shaft eight diameters and a little more than one-fourth, and cuts it into twenty-four flutes. The height of this capital is one diameter and a sixth . . . The architrave, frieze and cornice he makes a little less than a fifth part of the height of the column. The whole height of his profile in our measures is thirteen modules and twelve parts.'

In the following table Gwilt (*Encycl.*, art. 2592) gives, on the authority of Vignola, measurements of the mouldings of the Composite order :

*Members composing the order :*

			Heights of mouldings in parts of a module	Projections from axis of column in parts of a module
<b>ENTABLATURE</b>				
	Fillet of cornice	.. ..	1½	51
	Cyma recta	.. ..	5	51
	Fillet	.. ..	1	46
	Cyma reversa	.. ..	2	45
	Bead	.. ..	1	43½
A. Cornice, 36 parts.	Corona	.. ..	5	43
	Cyma under the corona	.. ..	1½	41
	Fillet	.. ..	1	33
	Cyma reversa	.. ..	4	32½
	Fillet of the dentils	.. ..	½	28
	Dentils	.. ..	7½	29
	Fillet	.. ..	1	23
	Ovolo	.. ..	5	22
	Bead	.. ..	1	17
	Fillet	.. ..	½	16½
B. Frieze, 27 parts.	Congé	.. ..	¾	15
	Upright face	.. ..	17½	15
	Apophyge	.. ..	7	22
	Fillet	.. ..	1	22
	Cavetto	.. ..	2	20½
	Ovolo	.. ..	3	20
	Bead	.. ..	1	17½
C. Architrave, 27 parts.	First fascia	.. ..	10	17
	Cyma reversa	.. ..	2	16½
	Second fascia	.. ..	1	15
	<b>COLUMN</b>			
D. Capital, 48 parts.	Echinus and fillet	.. ..	2	20½
	Lower member of abacus	.. ..	4 diagonally	32½
	Volute	.. ..	12 diagonally	30½
	Band of upper leaves	.. ..	3	24
	Upper leaves	.. ..	9	22½
	Band of lower leaves	.. ..	3	20½
	Lower leaves	.. ..	9	19½

		COLUMN			Heights of mouldings in parts of a module	Projections from axis of column in parts of a module	
Column, 16 mod. 12 parts.	Astragal ..	..	..	..	2	17½	
		Fillet ..	..	..	1	16½	
		Congé ..	..	..	2	15½	
	Shaft ..	above ..	..	..	..	15	
							below ..
	E. Base of column, 18 parts.	Apophyge ..	..	..	..	2	20
			Fillet ..	..	..	1½	20
			Congé ..	..	..	2	20
			Fillet ..	..	..	1½	20
			Torus ..	..	..	3	22
Fillet ..			..	..	½	20½	
Scotia ..			..	..	1½	20	
Fillet ..			..	..	½	21½	
Bead ..			..	..	½	21½	
Fillet ..			..	..	½	21½	
Scotia ..			..	..	2	20½	
Fillet ..			..	..	½	23	
Torus ..			..	..	4	25	
Plinth ..	..	..	6	25			
		PEDESTAL					
F. Cornice, 14 parts.	Fillet ..	..	..	..	½	33	
		Cyma reversa ..	..	..	1½	32½	
		Corona ..	..	..	3	31½	
		Cyma recta ..	..	..	1½	28½	
		Fillet ..	..	..	½	26½	
		Cavetto ..	..	..	1	25½	
		Frieze ..	..	..	5	25	
		Bead ..	..	..	1	27	
		Fillet ..	..	..	1	27½	
		Congé ..	..	..	1½	25	
Die, 94 parts	Die ..	..	..	..	88½	25	
		Apophyge ..	..	..	2	27	
		Fillet ..	..	..	1	27	
		Bead ..	..	..	1	27½	
		Inverted cyma reversa ..	..	..	3	30½	
G. Base, 12 parts.	Fillet ..	..	..	..	1	31½	
		Torus ..	..	..	3	33	
		Plinth ..	..	..	4	33	

'The orders and their several characters and qualities do not merely appear in the five species of columns into which they have been sub-divided, but are distributed throughout the edifices to which they are applied, the column itself being the regulator of the whole composition. It is on this account that the name of orders has been applied to the differently formed and ornamented supports, as columns, which have received the names of Doric, Ionic, Corinthian, Tuscan, and Composite orders, whereof the three first are of Grecian origin, and the two last, it is supposed, of Italian or Roman origin. Each of these, by the nature of its proportions and the character resulting from them, produces a leading quality, to which its dimensions, form and ornaments correspond. But neither of the order is so limited as to be confined within the expression of any single quality. Thus the strength indicated in the Doric order is capable of being modified into many shades and degrees of that quality.'—(Gwilt., *Encyl.*, art. 2538.)

(Further accounts of the origin of orders will be found under NĀGARA.)

'There are other columns,' says Rām Rāz (p. 38), 'in the Indian architecture, not only one diameter lower than the Tuscan, but from one to two diameters higher than the Composite.' 'The first sort is a column six diameters high; it is rarely made but upon a high base and pedestal. The entablature is more than half the altitude of the column, and the inter-columniation generally four diameters. The pedestal is of the Prati-bandha kind (*see* under ὙΠΟΠΥΛΗ, and there it is called Prati-bandha): and its height is equal to that of the base which is one-third of that of the column itself, or two diameters. The base is called Mañcha-bandha (*see* under ΑΔΕΥΣΗΤΗΑΝΑ) and is divisible into thirty parts. The capital is equal in height to upper diameter of the shaft, and its projection is equal to its height. The form of the capital is called Pushpa-bandha.' 'The height of the capital,' says *Mānasāra*, 'may be either equal to the breadth of the shaft, or one-half or three-quarters of it, according as it may appear proportionate to the size of the column. Let the breadth of it be either one, one and a quarter, half, or three-quarters of the diameter.' The entablature placed on this column does not differ from that placed on other pillars, except perhaps in the height. On this subject *Mānasāra* observes generally: 'The whole height of the entablature may be either three-quarters, one, one and a quarter, one and a half, one and three-quarters, or twice that of the base. The height of the entablature may be a half, one-fourth, or three-quarters of that of the shaft, or the height of the pillar, being divided into eight parts, six, five, three or two may be given to that of the entablature. The height of the entablature is measured from the architrave up to the corona.'—(Rām Rāz, p. 30.)

'The sixth sort of pillar is eleven diameters high. The design made to illustrate this is selected from among the pillars found at Conjéveram: it

represents a square pillar of the same height, exclusive of the base, which is composed of a plinth, a cyma recta and torus, with their fillets, and is one diameter high. The same pillar, including the base, may be taken as an example also of the seventh sort, which ought to be twelve diameters in height.'

('When the pillar,' says Kāśyapa, 'is measured in height from the upper fillet of the base, it is called Nigata-stambha, but when it is measured from the plinth below it, is termed Nichata-stambha.')

'At the foot of the shaft a space equal in height to the hypotenuse of the lower diameter is made quadrangular, around which are sculptured images of the deities, and the like, in bas-relief. In about half a diameter above this, is made the ornament called Nāga-bandha (a serpent-shape moulding). The remainder of the shaft, about three diameters and a half, is made to consist of eight sides, including the strings of pearls, which occupy three-quarters of a diameter, and appear to be suspended from the fillet of the upper ornament called Padma-bandha (a lotus-shape moulding), which takes up half a diameter. Next above this is the kalaśa or water-pot, above three-quarters of a diameter, and above this are made, with the same height given to them, three other mouldings, Hārikā, Āśya, and Tāṭikā, which last projects a fourth part of the diameter. Above this again is the lower collarino, in height about a quarter of a diameter, then the ornament called Kumbha (pitcher) which is half a diameter high and projects as much; next the upper collarino, a little less than the lower one; next the moulding called Phalakā (abacus) which is one diameter high and projects equal to its height; next the third collarino, about three-fourths of a diameter; and last of all the capital of the kind called Pushpa-bandha.'—(Rām Rāz, pp. 35-36.)

This pillar may, according to the definition of its form, be called Vishṇu-kānta and appears in most of the ornaments, though not in their proportions, to agree with the description given in the *Mānasāra* of that which he calls Pālikā-stambha. He says 'the height of the collarino should be one diameter of the column; that of the Phalakā (abacus) one, three-quarters, or, two or three diameters, and its projection one-fourth of its height. The height of the Kumbha (pitcher) below the collarino may be half, one and a half, or two diameters and its breadth equal to the upper or lower collarino. The height of the Tāṭikāśya is half or three-quarters of the diameters. Let the lower cyma be equal to its height and let its breadth be one and a quarter diameter. Below that comes the Hārikā of half that height. The height and breadth of the Tāṭikā are equally one diameter. Below that let a Kalaśa (pitcher) be made about two diameters in breadth and let the upper part of it be shaped in the form of a *durdhura-*



flower, and in such a manner as may appear graceful. Below this, about three-quarters of the diameters should be decorated with strings of pearls.'

Concerning the dimensions of his seventh sort of column, Rām Rāz gives accounts of a few more specimens which are quoted below :

'The pillars at Tiruvannamalai are estimated to be about 30 feet high, with proportionate thickness, diminished at the top by a twelfth part of the lower diameter. There are three kinds of them. The first is placed on a high pedestal and base ; the whole shaft is divided into ten compartments, each being equal in height to the hypotenuse of the diameter of the pillar ; and on all the four sides of these compartments are sculptured, in relief, four small pillars or pilasters supporting an entablature. The second pillar differs from the first in having two, instead of four, small ornamental pilasters in relief, on each side of the ten compartments, into which the shaft is divided, with an ornamented niche in the middle, which in the third specimen is flanked by two small pañjaras or ornamented cages on both sides of it. The second sort of pillar is placed on a base without a pedestal, and the third on a pedestal without a base.'—(Rām Rāz, p. 37.)

'The difference in the Indian orders, consists chiefly in the proportion between the thickness and the height of pillars, while that of the Grecian and the Roman orders, not only on the dimensions of columns, but also on the form of the other parts belonging to them.'

'The Egyptian columns appear to have no fixed proportion in regard to thickness and height. In some of the specimen of the ruins of upper Egypt, the height of the columns consists of from four to six times the lower diameter, which last proportion coincides with that of the first sort of the Indian pillar.'

'The orders of India, and of Greece and Rome, are remarkable for beautiful effect of their proportions, a circumstance to which little regard has been paid by the Egyptians. Both the Indian and Grecian columns are diminished gradually in their diameter from the base to the summit of the shaft, a practice which has never been observed in the Egyptian ; on the contrary, a diametrically opposite rule has been observed in their shafts, which are made narrower at the bottom than at the top, and placed upon a square or round plinth. The proportion in which the diminution at the top of the columns of the two former is made, seems to have been regulated by the same principle, though not by the same rule. The general rule adopted by the Hindu architects in this respect is that the thickness at the bottom, being divided into as many parts as there are diameters in the whole height of the column, one of these parts is invariably diminished at the top ; but in the Grecian and Roman architecture, the diameter of the upper part of the shaft, in a column of 15 feet in height,

is made one-sixth less than its thickness at the base ; and in a column of 50 feet, the diminution is one-eighth. The higher the columns are, the less they diminish, because the apparent diminution of the diameter in columns of the same proportion, is always greater according to their height, and this principle supposed to have been discovered with greater scientific skill, and is adduced as one of the proofs of the highly refined taste of the Greeks ; but we observe that precepts derived from the same principle have been taught and practised in India from time immemorial.'

' The plan of the Grecian columns is always round ; but the plan of the Hindu columns admits of every shape, and is frequently found in the quadrangular and octangular form, and richly adorned with sculptured ornaments. The form of the Egyptian pillars too, is circular, and their shafts are often fluted like the Corinthian, but the fluting of the Indian columns resembles neither the one nor the other. The decorations of the Egyptian columns often consist in representations " of the bundle of reeds " tied up with a cord on the top, having a square stone placed over it ; in some specimens are also found bindings or fillets in various parts of the shaft, and in the interval between them, reeds and hieroglyphics are represented. But there is nothing like these ornaments in the Indian orders, except in the columns found in the excavated temple of Elephanta, and some other places, and which differ materially from those employed in other situations in Hindustan.'

' There are no fixed, as we saw before, inter-columniations in the Hindu architecture, as are found in the Grecian, but the spaces allowed between pillar and pillar in different Hindu buildings, are found nearly to coincide with the Grecian mode of inter-columniations, though in too many instances, they differ widely from it, and the same may perhaps be said of the Egyptian colonnades.'

' The capital of the Grecian columns invariably marks the distinction of the several orders ; those of the Indian are varied at pleasure, though not without regard to the diameter and length of the shaft ; and the forms of the plainest of them, though they have in reality nothing in common with the Grecian order, are found at a distant view, to bear some resemblance to the Doric and Ionic capitals ; but those of a more elaborate kind are sometimes so overloaded with a sort of filligree ornaments, as to destroy the effect of the beautiful proportions of the whole. The Egyptian capitals, on the other hand, are formed into elegant vase shapes, decorated with the stalks, leaves, and blossoms of the lotus, and occasionally with palm leaves, which latter ornaments are supposed to have given the first idea of the Corinthian capitals. And in some specimens, the Egyptian capital is composed of the representation of the head of the goddess Isis.'

In view of the classification and number (5) of the orders, their principal composing mouldings (8), and other details of similarity pointed out above, the affinity,' says Rām Rāz truly (p. 38), 'between the columns of India and of Rome and Greece is so striking, that one would be apt to ascribe it to something more than mere chance.'<sup>1</sup>

**STŪPA**—Name of edifices, which serve as receptacle for a relic or as monument. They are hemispherical or bell-shaped, and rest upon a base of three concentric storeys which form ambulatories round the tope; they sustain a cubical erection, the so-called *tee* from which rises the spire (chhatra) which crowns the whole. The relic-chamber (dhātugarbha, whence the name 'Dagoba,' used in Ceylon for the whole edifice) is in the interior below the *tee*. Sometimes a sort of roof or temple was built over the tope (*Mahāvamśa*, 31, 29). Chaitya (sanctuary) is often used as a synonym (W. Geiger, *Mahāvamśa*, p. 295). A heap, a mound, a funeral pile, a tope, a Buddhist monument, known as chaitya in Nepal and as dagoba in Ceylon.

(1) 'The Buddhist dome-shaped tower built over relics, or as a memorial. The earliest stūpas were tombs.'—(Vincent Smith, Gloss. to Cunningham's *Arch. Surv. Reports*.)

<sup>1</sup> 'Considerable interest is attached to the recent discovery (in Japan) beneath the corner stones of the Double-Bridge (main entrance to the Imperial Palace) of eight human skeletons. Most of the skeletons were found upright about twelve feet below the bed of the Palace moat which is at present undergoing repair work necessitated by the earthquake of 1923.

'The theory of some Japanese scientists is that the skeletons are the remains of persons who, several centuries past, offered themselves as "human pillars" for the immortalization of the corner-stones used in constructing Edo Castle. The tradition of the "human pillars" is an old one in Japan. In a past age it was believed that if human beings were buried alive beneath the corner-stones of great structures, the gods would accord permanent strength and solidity to the foundations, and in addition, those who thus sacrificed themselves, would become immortal. It was considered that those chosen as "human pillars" were greatly honoured. They were buried alive in a standing position.'

'The first traditional instance of the "human pillars" recorded in Japan dates back to the reign of Emperor Nintoku, more than a thousand years ago. The Yodo river at Osaka, where the Emperor had his palace, used to overflow each year, drowning many people and causing much damage. Every dike built by the best engineers was unable to withstand the floods. One night, it is said, the Emperor dreamed that the gods had advised him if he would use human bodies as pillars for the construction of the embankments, there would be no more flood trouble. The story has it that the Emperor immediately caused human beings to be buried alive beneath the foundation stone of the dike, and since then the embankment has withstood all floods.' (*Associated Press of America Dispatch*, Tokio, July 11, 1925.)

(2) '*Stūpa: or Topes*—These, again, may be divided into two classes, according to their destination; first, the true Stūpas or towers erected to commemorate some event or mark some sacred spot dear to the followers of the religion of Buddha; secondly, Dagobas or monuments containing relics of Buddha, or of some Buddhist saint. If it were possible these two ought always to be kept separate, but no external signs have yet been discovered by which they can be distinguished from one another, and till this is so, they must be considered, architecturally at least, as one.'

'In Nepal, according to Hodgson, and, I believe, in Tibet, the monuments, which are called stūpas in India, are there called Chaityas. Etymologically, this is no doubt the correct designation, as chaitya-like stūpa, means primarily a heap or tumulus.'—(Fergusson, *Hist. of Ind. and East. Arch.*, p. 50, note 2.)

For the photographic views and the architectural details of the following stūpas, see Fergusson :

The great Tope at Sanchi (p. 63, Figs. 10, 11, 12).

The cut in the rock on a Dagoba at Ajanta (p. 64, Fig. 13).

Tope at Sarnath (p. 66, Fig. 14).

Temple at Buddh-Gaya (p. 70, Fig. 16).

The great Tope at Anṛavati (p. 72, Fig. 17).

Gandhara Topes (description, pp. 72-76).

Jelalabad Topes (p. 78, Figs. 18, 19).

Manikyala Tope (pp. 80-82, Figs. 21, 22, 20, 23).

(3) 'A diversity of opinion exists as to the propriety or otherwise of calling such monuments as the high stūpa of Takkal Bala 'Tope'; and it must be said that this monument is a striking illustration of the inaccuracy of much that has been written on the subject. The following is one of the many instances where a conclusion has been somewhat hastily arrived at : . . . the term now used is 'Thūp' . . . it is, therefore, much to be regretted that we should have adopted the word 'Tope,' which preserves neither the spelling nor the pronunciation of the true name.'—(*B.A.S.J.*, Vol. III, p. 313.)

(4) 'Again, Mr. Fergusson, writing on this subject, complains bitterly of the Bhilsa, and the Sarnath, and the Sanchi "Topes." To make the confusion worse he laments—"Tope is also the common Anglo-Indian word for a clump of trees." Very true, but that hardly justifies the following—In neither sense is the word ever used by natives, who associate 'tope' with something very different, that is, with cannon or artillery. That the natives do use the word freely in designating such monuments, I will now endeavour to show. While they called all lower mounds in this neighbourhood dehiri, the peasantry denied the existence of a Thūpi,

Thūpa, Thūva, or even the common dīh; and in my inquiries being compelled to paraphrase the word for their comprehension, after trying buland-tila and other expression in vain, I accidentally mentioned the much abused 'tope,' and was much surprised to find that they understood my meaning instantly, and helped me to a minute description of the monument and its surroundings. They did not call it thūpa nor thūpi, but simply 'tope' or, more correctly, 'top.' Now, it would appear from the above that the word is no mere "adoption of ours," and that it is used by the natives of India (unless we allow the breadth of the Indus to make a fine distinction), moreover, by the commonest of those natives far and wide.—(Cunningham, *Arch. Surv. Reports*, Vol. xix, pp. 134, 135.)

(5) Takshaśīlac ayaṁ thuvo pratihāvito sava-budhaṇa puyca |

This stūpa was erected at Takhaśīlā (Takshaśīlā) in honour of all the Buddhas.—(Taxila Vase inscrip. *Ep. Ind.*, Vol. viii, p. 297.)

(6) Thūva cha saṁghārāma cha |

(Inscrip. on the Mathura Lion Capital, no. A, II, line 14, *Ep. Ind.*, Vol. ix, p. 141.)

**STŪPA-GRIHA**—House of the tope, a sort of dome, supported by rows of pillars (as in Thūparāma Dagoba in Anurudhapur, Ceylon).

(W. Geiger, *Mahāvamsa*, p. 295.)

**STŪPI**—A dome, a cupola, a spherical roof rising like an inverted cup over a circular, square or multangular building, a pinnacle, a steeple-tower.

(1) *M.*, xi, 13; xv, 91; xviii, 4, 413; xxii, 10, etc.

(2) Koṇa-pārāvataṁ kuryāt stūpy-āchchhādanakāni cha ||

Su-muhūrte su-nakshatre stūpy-āchchhādanakaṁ nyaṣet ||

(*Vāstu-vidyā*, ed. Gaṇapati-śāstri, xvi, 27, 37.)

(3) Kaṇṭhoktaṁ sarva-mānaṁ tu stūpy-utsedhah prakirtitaḥ ||

(*Kāmikāgama*, xxxv, 30.)

(4) Ravi-varmā-mahā-rāja *alias* the Lord Kula-śekhara-deva was pleased to bathe up to the pinnacle (stūpi-paryyanta) the Vāṇakaiyilāya-Tirumalai (name of the central shrine) in the temple of the Lord of Tiruviraṭṭāṇam, the Lord of Tiruvadigai, and to fix the stones which were bulging out (? stūpi-kila).—(Tiruvadi inscrip. of Ravivarman, line 3 f., *Ep. Ind.*, Vol. viii, p. 9.)

(5) 'This inscription (*V. S. I. I.*, Vol. II, no. 90) records the gifts, by the priest Iśāna Śiva Paṇḍita, of eight gilt copper-pots. . . . A ninth pot was presented by Pavana-Pidāran. . . . The gilt copper-pots were all intended to be used as pinnacles (Stūpikkuḍam, para. 2).

Nine of them were presented, of which one is said to have been for the temple of the Lord (para. 9) and another for the temple of the Lord Śrī-Rājarājeśvara Mudaiyār (para. 11). The other seven appear to have been intended as pinnacles for the shrines of the regents of the eight quarters. The regents are eight in number, viz., Indra, Agni, Yama, Niṣṛiti, Varuṇa, Vāyu, Soma, and Iśāna. . . . The shrine of Indra, who is the regent of the East, seems to have been in the second gopura for which five pinnacles had apparently been provided by the king himself.—(*V. S. I. I.*, Vol. II, no. 90, paras. 1, 2, p. 413 f.)

(6) 'The Gangai-koṇḍa-puram temple . . . consists of a nine-storeyed stūbi (steeple-tower) or vimāna over the shrine or sanctuary, 99 feet square at the base, and about 165 feet high.'—(*Ind. Ant.*, Vol. IX, p. 117, c. 2, para. 1.)

(7) See Chalukyan Architecture, *Arch. Surv.*, New Imp. Series, Vol. XXI, Plates LXXXII, Figs. 1, 2; LXXXIV, Figs. 1, 2; xc1.

See Cunningham, *Arch. Surv. Reports*, Vol. III, Plates XLVI, Fig. 4 (Birdāban Stūpa), XLVII, Fig. 3 (Nongarh Stūpa); Vol. XI, Plate XXVII (plan and section of Mediaeval Stūpa); Vol. XVIII, Plates V, VI (Nirvāṇa-Stūpa); Vol. XIX, Plate III (Mahadeopur pinnacle).

STŪPI-KĪLA (see STŪPA and STŪPI)—The spire, the nail above the dome.

(*M.*, XVIII, 144.)

*Cf.* 'The Lord Śrī-Rājarājadeva gave one copper waterpot (kūṭa), to be placed on the copper pinnacle stūpittari; according to Winslow, a synonym of Śikhara, or the upper pinnacle of a temple of the sacred shrine (Śrī-Vimāna) of the Lord of the Śrī-Rājarājeśvara (temple), weighing three thousand and eighty-three pala.'—(*Inscrip. of Rajaraja*, no. 1, line 18, *H.S.I.I.*, Vol. II, p. 9.)

STRĪ-LIṄGA—A class of buildings, a feminine type of architectural object.

See definition and other details under PRĀSĀDA.

*Cf.* Sarvatra bhoga-bhūmy-aṅgam alinda-pariśobhitam |

Sarva (? shaḍ)-varga-samāyuktaṁ manaḥ-prīti-samanvitam ||

Chaturnām anta (m)-lomasāṁ (lokānāṁ) yogyaṁ strī-liṅgam  
ishyate ||

(*Kāmikāgama*, XLV, 10, XXXV, 21; see  
under ŚĀLĀṄGA and SHAḌ-VARGA.)

STHA—A fixed abode as in Goshṭha and Pratiśhṭhā (see under these terms).

**STHANḌILA**—A site plan in which the whole area is divided into forty-nine equal squares.

(*M.*, VII, 8, VIII, 39 ; IX, 129, etc., cf. LXX, 30 ; see PADA-VINYĀSA.)

**STHAPATI**—*Lit.* chief (pati) of fixed abode (*stha* as in *goshṭha*, *pratiṣṭhā*, German stadt), the chief architect, the master builder.

(1) *Mānasāra* (Chap. II, named Śilpi-lakṣhaṇa or ranks and qualifications of architects) :

From the four faces of Brahman are stated to have originated the four heavenly architects, namely, Viśva-karman, Maya, Tvaṣṭri and Manu. And their sons are called respectively Sthapati, Sūtragrāhin, Vardhaki and Takshaka. These latter four evidently represent the four classes of terrestrial artists :

Pūrvānane viśvakarmā jāyate dakṣiṇe mayāḥ ।  
Uttarasya mukhe tvaṣṭā paśchime tu manuḥ smṛitaḥ ।  
Viśvakarmākhyā-nāmo'sya putraḥ sthapatir uchyate ।  
Mayasya tanayaḥ sūtragrāhīti parikīrtitaḥ ।  
Tvaṣṭur devarsheḥ putraḥ varddhakir iti prakathyate ।  
Manoḥ putras takshakaḥ syāt sthapatyādi-chatusṭayam ।

(*M.*, II, 11-12, 17-20.)

*Cf.* One Manu is stated to be the architect who built the city of Ayodhyā :  
Ayodhyā-nāma-nagarī tatrāsil loka-viśrutā ।  
Manunā mānavendreṇa yā purī nirmitā svayam ।

(*Rāmāyaṇa*, I, 5, 6.)

Their ranks :

Sthapatyādiś chatur varṇaḥ śilpiḥ parikīrtitaḥ ।

(*M.*, II, 29.)

The Sthapati is in rank the director general and the consulting architect (*M.*, II, line 21). The Sūtragrāhin is the guide (guru) of Vardhaki and Takshaka (line 22), while the Vardhaki is the instructor of Takshaka (line 23). The Sthapati must be well versed in all sciences (line 24). He must know the Vedas (line 26). He must have all the qualifications of a supreme director (āchārya) (line 31).

*Cf.* Sthapatih sthāpanayārhaḥ veda-vich chhāstra-pāragah ।

Sthāpanādhipatir yasmāt tasmāt sthapatir uchyate ।  
Sthapateś chājñayā sarve sūtragrāhyādayaḥ sadā ।  
Kurvanti śāstra-dṛiṣṭena vastu-vāstu prayatnataḥ ।  
Āchārya-lakṣhaṇair yuktaḥ sthapatir ity-abhidhiyate ।  
Sthapatīs tu sva-turyebhyas tribhyo gurur iti smṛitaḥ ।

(*M.*, II, 26-29, 31, 21.)

Sthapatiḥ sarva-śāstrajñāḥ—the chief architect knows all sciences. (*M.*, II, line 24.)

See also *M.*, xxxvii, 14, 15, 16, 17, 58, 73-74, 83, 85.

These passages refer to the Sthapati as the master of the opening ceremonies of a dwelling house.

The Sūtragrāhin also should have the general knowledge of all the sciences and the Vedas. But he must be an expert in measuring accurately and must make a special study in drawing (*M.*, II, 32, 34, 22, 25, 33, 23, 25, 34):

Śrutajñāḥ sūtragrāhī cha rekhājñāḥ śāstra-vit-tamaḥ | (32)

Sūtra-grāhīti sūtra-dhṛit | (24)

Sūtra-grāhī gurur dvyābhyām turyebhyo'dya iti smṛitaḥ | (22)

The Vardhaki, too, should have the general knowledge of the Vedas and practical sciences. But the object of his special study is painting. He must also be able to design (vichārajña) architectural and sculptural objects from his own ideas. Like the Sūtragrāhin, the Vardhaki too should have an idea of accurate measurement.

*Cf.* Vardhakir māna-karmjñāḥ | (25)

Vichārajñāḥ śrutajñāś cha chitra-karmajño vardhakiḥ || (33)

Takshakasya guruḥ nāma vardhakir iti prakīrtitaḥ || (23)

The Takshaka must be expert in his own work, i.e., carpentry. He should be obedient to his superiors and aspire to rise in the rank.

*Cf.* Takshaṇāt takshakaḥ smṛitaḥ || (25).

Takshakaḥ karma-vidyus cha balā-bandhūdaya-paraḥ | (34)

(2) Sthapatiḥ sthāpanārhaḥ syāt sarva-śāstra-viśāradaḥ ||

Na hīnāṅgo'tiriktāṅgo dhārmikas tu dayāparaḥ |

Amātsaryo'nasūyaś cha tāntrikastv-abhijātavan ||

Gaṇitajñāḥ purāṇajñāḥ ānandātmā py-alubdhakaḥ |

Chitrajñāḥ sarva-deśajñāḥ satya-vādī jitendriyaḥ ||

Arogī chāpramādi cha sapta-vyasana-varjitaḥ |

Sunāmā driḍha-vandhus cha vāstu-vidyābhi-pāragaḥ ||

(*Vāstu-vidyā*, ed. Gaṇapati Śāstri, I, 12-15.)

'The Sthapati or master builder must be able to design (*lit.* placing, sthāpana). He must be proficient in all sciences (Śāstras, see below). He must not be deformed by lacking in or possessing too many limbs. He must be pious and compassionate. He must not be malicious or spiteful. He must be trained in music (tāntra—a stringed musical instrument, see *Vitruvius* below). He must be of noble descent. He must be a mathematician and historian. He must be happy in mind and free from greed. He must be proficient in painting. He must know all countries, i.e., he must be a geographer. He must be truthful, and possess self-control. He must not have any disease, and must be



above committing errors. He must be free from the seven vices (hunting, gambling, day-dreaming, blackmailing, addiction to women, etc., see *Manu-samhita*, vii, 47-48). He must have a good name and be faithful to friends. He must be deep in (*lit.* cross) the ocean of the science of architecture.'

Compare these qualifications of the master builder with those of the Greco-Roman architects quoted below from *Vitruvius*.

The classification of the architects and the account of their qualifications are almost identical to those given in the *Mānasāra* :

Sthapates tasya śishyo vā sūtra-grāhī sūto'thavā |  
Sthapaty-ājñānusārī cha sarva-karma-viśāradaḥ ||  
Sūtra-daṇḍa-pramāṇajño mānonmāna-pramāṇavit |  
Takshitānām takshakenāpy upary-upari yuktitāḥ ||  
Vṛiddhikṛit vardhakiḥ proktaḥ sūtragrāhy-anugaḥ sadā ||

(*Vāstu-vidyā*, *ibid.*, I, 16-18.)

Takshaṇāt sthūla-sūkshmañām takshakaḥ sa tu kīrtitaḥ ||  
Mṛit-karmajño guṇī śaktaḥ sarva-karma-sva-tantrakaḥ |  
Guru-bhaktaḥ sadā hṛiṣṭaḥ sthapaty-ādy-anugaḥ sadā ||

(*ibid.*, I, 18-19.)

(3) Suśīla(ś) chaturo daksha-śāstrajña-lobha-varjita(-taḥ) |

Kshamāvān asya (syād) dvijaś chaiva sūtradhāra(ḥ) sa uchyate ||

One who is of good behaviour, clever, skilful, learned, free from lust (excessive desire of gain), can forgive (rivals), and belongs to the twice-born class, is called Sūtra-dhāra.'

(*Śi lpa-dīpaka*, ed. Gaṅgādhara, I, 3.)

(4) Vāstu-vidhānajño laghu-hasto jita-śramaḥ

Dīrgha-darśī cha śūraś cha sthapatīḥ parikīrtitaḥ ||

'One who is conversant with the architectural design (vidhāna, the act of arranging, disposing, etc.), skilful (*lit.* swift at hand), industrious (or patient labourer), and foresees (everything), and is a champion (in architectural matters), is described as a sthapatī.—(*Matsya-Purāṇa*. P. Dict.).

(5) *Mahābhārata* (xii, 3243-3244) :

Sat-kṛitāś cha prayatnena āchāryartvik-purohitaḥ |

Maheshvāsāḥ sthapatayaḥ sāmvasara-chikitsakāḥ ||

Prājñā medhāvino dāntā dakshāḥ śūrā bahu-śrutāḥ |

Kulināḥ sattva-sampannā yuktāḥ sarvveshu karmmasu ||

Sthapatīḥ, meaning apparently architects, are stated here to be very learned, meritorious, patient, dexterous, champion, of large experience, of high birth, full of resources, and capable of application to all works.

*Ibid.*, xiii, 5073-5074 :

Brāhmaṇa-sthapatibhyām cha nirmmitam yan nivesanam ||

Tad āvaset sadā prājño bhavārthī manujēvara |

Here, a house built by a Brāhmaṇa and a Sthapati is specially recommended. Sthapati implies an architect but his caste is not clear from this passage.

*Mahābhārata*. xiv, 2520—2524 :

Tato yayau bhīmasenaḥ prājñāḥ sthapatibhiḥ saha ।  
 Brāhmaṇān agrataḥ kṛtvā kuśalān yajña-karmmaṇi ॥  
 Tam sa śāla-chayaṁ śrīmat sāmpratoli-sughaṭṭitam ।  
 Māpayāmāsa kauravyo yajña-vāṭam yathā-vidhi ॥  
 Prāsāda-śata-sambādham maṇi-pravara-kuṭṭimam ।  
 Kārayāmāsa vidhivad-dhema-ratna-vibhūshitam ॥  
 Stambhān kanaka-chitrānś cha toraṇāni vṛihanti cha ।  
 Yajñāyatana-deśeshu datvā śuddham cha kāñchanam ॥  
 Antaḥ-purāṇām rājñām cha nānā-deśa-śamīyushām ।  
 Kārayāmāsa dharmmātmā tatra tatra yathāvidhi ॥

Here, too, Sthapati is apparently the architect who built the palace with jewelled floor, columns, arches, etc., and also the well-designed high gate-houses.

*Ibid.* v. 255 :

Tato'atibhīto rūpāt tu śakra āste.vichārayan ।  
 Athājagāma paraśuṁ skandhenādāya varddhakiḥ ॥

Vardhaki is called here Takshan (*see* verses 256—266) not in the sense of carpenter but to imply an executioner.

(6) Vārttika of Kātyāyana on Pāṇini, 2 (*Pet. Dict*) :

Sūtra-grāha—yaḥ sūtram gṛihṇāti na tu dhārayati ।  
 Sūtra-graha—yaḥ sūtram gṛihṇāti dhārayati cha ।

This subtle distinction is not quite clear.

(7) Chaurapañchāśikā (ed. Bohlen, 7-3) :

Surata-tāṇḍava-sūtra-dhāri ।

(8) *Rāmāyana*, (ii, 80, 2, etc.) :

Karmāntikāḥ sthapatayaḥ purushā yantra-kovidāḥ ।  
 Tathā vardhakayaś chaiva mārgino vṛiksha-takshakāḥ ॥

(9) Sakala-guṇa-gaṇālankṛita-kṛittamāṅgaru Parama-Brahmaṇis chala-svarūpar upadeśa-p(r)arākaramaru Manu-Maya-Māṇḍabye-Viśvakarmma-nirmmitam appa Hem-migadeya mane enisida stoṭakācheru ।

‘Of the Viśvāmitra-gotra, supreme Lord of Laṅkā-dvīpa-pura, possessor of property and vehicles, versed in all Śāstras, sought after to construct ornamental buildings and upper storeys, adorned with all good qualities his head sprinkled with sandal water from Śiva, in the unchanging form of Parama Brahma, distinguished in giving advice, of the Hemmigaḍe house created by Manu, Maya, Māṇḍabya, and Viśvakarma, was Stoṭakāchāri.’—(*Ep. Carnat.*, Vol. v, Part I, Channarayapatna Taluq, no. 265 ; Roman text, p. 530, line 23 ; Transl., p. 237, para. 2.)

(10) This Prasasti was written by Skandasādhu, the son of Śri-kaṅṭha a descendant of a family of architects (sthapati-kula).

(Sholingur Insc. of Parantaka I, line 21-  
*Ep. Ind.*, Vol. IV, pp. 224, 225.)

(11) Sthapati-Kālisuta-Sirṅāli-kargi Navagrāma-draṅga vra(? lu)-dha-jana ।

'The Sthapati (architect of the tank) was) Sirṅāli Kargi, the son of Kāli, a Pandit (? vulha) from the Navagrama-draṅga (compare *Rāja Tarāṅgiṃ*, Translation by Dr. Stein, Vol. II, p. 291, watch-station near mountain passes).'

(Dr. Stein Konow (Peshawar Museum inscrip. of Vanhadaka, line 6, *Ep. Ind.*, Vol. X, p. 80, note 3 ; p. 81.)

(12) Visadru-sūtaḥ Kamau Śilpi—'Visadru's son, Kamau, the architect (of the fifth octagonal pillar, middle row, of the north-west cloister). This simple record of the architect or head mason Kamau is the most valuable inscription of the Lal Darwāza, as it is another proof of the truth of Fergusson's remark that the cause of the admixture of Hindu and Muhammadan styles in the Jaunpur was the employment of Hindu masons.'

(Dr. A. Führer, *Sharqi Arch. of Jaunpur inscrip. xxvii, Arch. Surv., New Imp. Series, Vol. I, p. 51.*)

(13) Rājapālasya putreṇa pālhaṇena śilpinā ।

Utkirṇā-varṇṇa-ghaṭanā vaidagdhi-viśvakarmanā ॥

'(The document) is engraved by the artist Palhana, son of Rājapāla who is a master of the art and craft.'

(Pachar Plate of Paramardideva, line 22,  
*Ep. Ind.*, Vol. X, pp. 49, 45.)

(14) Tvashṭri, a recognized architect, connected with (the ancestor of) both Sūtradhāra and Sthapati :

Tad-vād Vaṭākhyam nagaram vane'smin Tvashṭuḥ prasādāt  
kṛitavān Vasishṭhaḥ ।

Prākāra-vapropavanais taḍāgaiḥ prāsāda-veśmaiḥ su-ghanam su-  
turṅgaiḥ ॥

Bhānor griham daiva-vaśād vibhagnam Vāsishṭha-pauraiḥ sukṛitam  
yad āsit ।

Āsich cha Nāgāt sthapates tu Durggaḥ ॥

Durggārkkato Deuka Sūtra-dhāraḥ ॥

Asyāpi sūnuḥ Śivapāla nāmā ॥

Ycnotkṛite'yaḥ suśubhā prasastiḥ ॥

(Vasantgadh inscrip. of Purnapāla, A. D. 1042,  
vv. 21, 27, 34, *Ep. Ind.*, Vol. IX, pp. 12,  
13, 14, 15.)

(15) Sadāśivamahārāya-śāsanād Viraṇātmajaḥ |

Tvashtā śri-vīranāchāryo vyalikhat tāmra-śāsanam ||

(Kṛishnapuram Plates of Sadāśivaraya,  
v. 107, *Ep. Ind.*, Vol. ix, p. 339.)

(16) Śīla-śilpi—stone mason—(Govindapur stone inscrip. of the poet Gaṅgadhara, v. 39, *Ep. Ind.*, Vol. ii, pp. 383, 342).

(17) Śilpin—engraver—(Vilapaka Grant of Venkata I, v. 62, *Ep. Ind.*, Vol. iv, pp. 277, 272).

(18) Cf. inscrip. from Dabhoi—(verse 112, *Ep. Ind.*, Vol. i, p. 31.)

(19) Vardhaki—carpenter, sculptor (Senart) :

Vadhakinā sāmina venvāsaput(e)na gharasa muḡha kata |

(Karle Cave inscrip. no. 6, *Ep. Ind.*,  
Vol. vii, p. 53.)

(20) Sūtradhāra—architect, artizan—(Bheraghat inscrip. of Alhanadevi, vv. 36, 37, *Ep. Ind.*, Vol. ii, pp. 13, 17).

(21) Mason—(inscrip. from Dabhoi, v. 112, *Ep. Ind.*, Vol. i, p. 31).

(22) Cf. the first Praśasti of Baijnath—(verse 36, *Ep. Ind.*, Vol. i, pp. 107, 111).

(23) Sūtra-dhṛit—artizan—(Kudarkot inscrip., v. 17, *Ep. Ind.*, Vol. i, pp. 182–183).

(24) Sūtradhāra—sculptor—(Vcrawal image inscrip., line 5, *Ep. Ind.*, Vol. iii, 303, 304).

(25) Si(śi)lā-paṭṭa-śubhe vaṁse sūtra-dhārā vichakṣhaṇāḥ |

Bhojūkaḥ Kāmadevaś cha karmanishṭhā Halā sudhṛṭḥ ||

‘(Born) in the auspicious family of Śilpāpaṭṭa, the conspicuous architects (were) Bhojūka, Kāmadeva, and the wise Halā, (who) were perfect in their work.’

‘A Muhammadan ruler Jallāla Khojā, son of Iśāka. appointed these architects to build a Gomaṭh(a) (? cow-shelter), a garden, and step-well in the town of Baṭṭhāḍim.’

(Bhatihagarh stone inscrip., v. 12, *Ep. Ind.*,  
Vol. xii, pp. 46, 47, 44.)

(26) ‘Gokaṛṇa-svāmī—who is set upon the pure peak of the Mahendra mountain, master (guru) of things movable and immovable, the sole architect (sūtra-dhāra) for the creation of all the world (sakala-bhuvana-nirmāpaika-sūtra-dhārasya).’

(*Ep. Carnat.*, Vol. ix, Bangalore Taluq, no. 140 ; Roman text, p. 33, Transl., p. 26.)

(27) *Kṛishṇa-suto-guṇāḍhyaś cha sūtra-dhāro'tra Naṇṇakaḥ |*  
*Etat kaṇvātramah jūātvā sarvva-pāpa-haram śubham |*  
*Kṛitam hi mandiram śambhoḥ dharmma-kīrtti-vivarddhanam ||*  
 Here, Sūtra-dhāra is the architect who built the temple of Śiva.

(Inscription from the Mahadeva temple,  
 vv. 29, 30, *Ind. Ant.*, Vol. XIII, p. 165.)

(28) Sūtradhāro'sya Haridāsanāmā—'the architect (employed on the repair of the temple of Dakṣiṇāditya) was Haridāsa.

(Gaya inscrip. of Vikrama Samvat 1429, line  
 9, *Ind. Ant.*, Vol. XX, pp. 315, 313.)

(29) Cf. 'When the house is finished Brāhmaṇs and the friends of the family are feasted. The mistri (master-builder) attends the dinner and receives from the owner complimentary gifts, such as shawls, turban, clothes and money, as his merits and the generosity of his employer dictate.'

(*Ind. Ant.*, Vol. XXIV, p. 303, c. 2, last para.)

(30) 'The royal draughtsman (rāya or rāja sūtra-dhāri) Gopojā's younger brother Suroja engraved it.'

(*Ep. Carnat.*, Vol. V, Part 1, Arsikere Taluq,  
 no. 123; Transl., p. 168, line 2.)

(31) Svasti samadhigata-pañcha-mahā-śabda . . . svarādhpati-ma-  
 hānāyaka-vibudha-vara-dayakan animitta Malla-vijaya-Sūtra-dhāri  
 svāmidrohi . . . biruda, etc.

'Be it well (with various epithets, including), Ma'la-vijaya-sūtradhāri, the daṇḍanāyaka Lachimayya's son, of the ministry for peace and war, Hodimaiya and others (named) enlarging the town; Rājimaiya, the master of the town, desiring to make a feast granted certain land (specified).'

(*Ibid.*, no. 194, Roman Text, p. 433;  
 Transl., p. 187.)

(32) 'Born in the family of Viśvakarma, the architect of the three worlds, Viśvanātha—the son of Basavāchāriya, who was the son of Voḍe-  
 yappaya considered to be the jagad-guru, engraved it.'

(*Ibid.*, Vol. 7, Part 1, Channarayana Taluq,  
 no. 107; Transl., p. 207.)

(33) 'The jagad-guru Viśvanātha, who was the son of Voḍe-  
 yappaya, granted a rent-free

(*Ibid.*, Vol. 7, Kadur Taluq, no. 57;  
 Transl., p. 12.)

(34) 'The jagad-guru Viśvanātha, who was the son of Voḍe-  
 yappaya, granted a rent-free

who are conversant with painting or architecture, Sanderson's *Canarese Dictionary* of the world who have attained the favour (of the god), having given the paṭṭa, (a patent, royal grant or order), called mūme-perjerepu (and) the name of Tribhuvanāchārya to Śrī-Guṇḍa, whose (observance of the) established rules of conduct was unimpeded, the Sūtra-dhāri, who made the temple of the queen of Vikramāditya (II, of the Western Chalukyas), the favourite of the world; (and there is) immunity (parihāra) to the others who united themselves with the guilty man (doshika).'

(Sanskrit and Old Canarese inscrip. no. 99,  
lines 1-7, *Ind. Ant.*, Vol. x, p. 164,  
notes 6-10.)

(35) 'Hail! Let it be known that these are the the names (not given) of the Āchārya who averted the excommunication (viḷliga-vārte=bahishkāra) of the skilful people (better perhaps 'those who are conversant with painting or architecture') of this district, after that they had given the mūme-perjerepu to the Sūtra-dhāri who made this temple of Lokeśvara (still exists under the name of god Virūpāksha, Ante p. 163, c. 1, paras. 3, 1, 2) of Lokamahādevī (the queen) of Vikramāditya, the worshipful one, who three times conquered Kānchi.'

'Hail! Śrī-Sarvasiddhiāchārya, the asylum of all virtuous qualities, the Pitāmaha (Brahma, i.e., the Creator), the maker of many cities and houses; he whose conversation is entirely perfect and refined, he who has for a jewelled diadem and crest-jewel the houses and palaces and vehicles and seats and couches (that he has constructed), the (most eminent) sūtra-dhāri, of the southern country.'

Svasti-Śrī-sarva-siddhi-āchāri sakala-guṇāśraya-aneka-pura vāstu-Pitāmahān sakala-nishkala-sūkshmatibhāshitau vāstu-prāsāda-yānāsanaśayana-maṇi-makuṭa-ratnachūḍāmaṇi-te(ṭh)kaṇa-diśeya-sūtra-dhāri.

(Sanskrit and Old Canarese inscrip.  
no. 100, Ante p. 165.)

(36) 'Hail! The grant that was given of Śrī-Vijayāditya and Vikramāditya . . . the grant that was given to the temple of (the architect Avanta-guṇa—(was) a stone seat (pāre) and a bracelet (?) to the temple of (the god) Śrī-Lokapāleśvara, after having given the office (sthāna, see below) of the holy Añjanāchārya to the holy Devāchārya (datti Añjanāchārya bhagavantarge koṭṭu Śrī-Lopapāleśvarakam pāre balli).'

'Sthāna may mean the office of the priest of the temple, or the locality, i.e., allotment of land, belonging to the holder of that office.'

*Cf. Mānava*, II, 25-26, above. (The first meaning suits the context better.)

(*Ibid.*, no. 101, pp. 165, 166, and note 18.)

(37) 'Hail ! Chaṭṭara-Revadi-Ovajja (Ojhā, *see* below) of the Sarva-siddhi-Āchāryas, who was acquainted with the secrets of Śrī-śīlemudda (śīlā-mudda, the name of some particular guild of stone masons), made the southern country.'

'(Old Canarese) Ovajja is perhaps the (modern) Canarese oija, a priest, preceptor' (exactly the same meaning as āchārya etymologically indicates).

(*Ibid.*, no. 114, pp. 170-171, 172, notes 57, 58.)

'In addition to recording . . . the re-admission into caste of the artisans of the locality, this inscription (no. 100) gives several titles of the builder of the temple. Among them is that of Sarva-siddhi-Āchārya. The Sarva-siddhi-Āchāryas are mentioned again in no. cxv below, and seem to have been some celebrated guild of architects or builders.'

(Dr. Fleet, *Ind. Ant.*, Vol. x, p. 164, c. 2, para. 2.)

'In addition to recording the name of Guṇḍa as the builder of the temple, this inscription (no. 99), as also the next (no. 100) seems to be intended to record the re-admission into caste of the artisans of the locality, who had been outcasted for some act which is not stated. The purport of this portion hinges entirely upon the meaning to be given to the word baḷligavārte (in nos. 99 and 100).'

Dr. Fleet is not quite certain whether he should agree with Mr. Kaṭṭi who says that 'it sounds to him like the Dravidian equivalent of the Sanskrit bahishkāra.'—(*Ibid.*, pp. 163-164, last para.)

'The Sūtra-dhāri or Sūtra-grāhī, "the holder of the thread" was the assistant of the sthapati, "the master-carpenter or master-mason," the architect.'—(Dr. Fleet, *Ind. Ant.*, Vol. x, p. 163, note 3.)

(38) It should be noted that Chāri, Āchāriya, Āchārya (with different prefixes), Ojhā, and Sūtra-dhāri are the surnames or titles of the Sthapati (master-builder) who is also called Āchārya in the *Mānasāra*. (*See* above.)

(The titles in another form—Āchārya or Āchāryya—are the surnames of the Jain teachers, of the famous philosopher Saṅkara, and the distinguished astronomer Bhāskara.)

Here in these inscriptions we have seen that the architects have many such titles, namely, Āchāri (no. 99, line 4, no. 100, line 8); Āchāriya (no. 100, line 7); Sarva-siddhi-Āchāri (no. 100, line 8); Sarva-siddhi-Āchārjiya (-yya) (no. 114, line 2 f); Tri-bhuvanāchāri (no. 99, line 5); Añjanāchārya (no. 101, line 5); Devāchārya (no. 101, line 6); Ovajjā (=Ojhā, no. 114, line 4); Śīle-mudda (?=śīlā-marḍdaka or modaka, no. 114, line 1). The very same architects are again given the titles of Sūtra-dhāri (no. 99, line 3; no. 100, lines 4, 12).

The titles, Chāri and Āchāri, are frequently met with as the surnames of stone masons or engravers of Copper-plates or other Śāsanas in the *Epigraphia Carnatica* of Mr. Rice and also in the *South Indian Inscriptions* edited by Prof. Hultzsch and Venkkāyya ; compare the following :

(39) ' The nāga (i.e., the cobra on the slab on which the inscription is incised) has been made by Nāṭaka (Nartaka), the pupil of the Āchāriya (i.e., Āchārya) Idomorā (Indramayūra) of the town of Saṁjayanti.' ' Āchārya—probably means master(-mason), i.e., sthapati.'

(Banawasi Prakrit inscrip., line 2 f., *Ind. Ant.*,  
Vol. xiv, p. 334, notes, 20, 23.)

(40) Badhūvallabha-Mallasya vachanenaiva śāsaṇam tvashṭā Nandi-varmāchāryya-dānasyāśya likhāmy-aham ।

' By order of Badhuvallabha-Malla I, the carpenter Nandi-varmāchāryya inscribe the charter of this grant.'

(Bana Grant of Śāka 261, lines 50-51,  
*Ind. Ant.*, Vol. xv, pp. 176, 177.)

(41) ' The carpenter Vīraṇa, son of Muddaṇāchāryya, was the engraver of the śāsaṇa, for which he received one share in the village.'

(*Ep. Carnat.*, Vol. III, Seringapatam Taluq,  
no. 11 ; Transl., p. 9, line 3.)

(41a) ' It was engraved by the carpenter Varadapāchāryya.'

(*Ibid.*, no. 15 ; Transl., p. 11.)

(42) ' The Śāsaṇa was engraved by Śrīgiri, the son of the carpenter Varadapāchāryya.'

(*Ibid.*, no. 15 ; Transl., p. 32.)

(43) ' And it is engraved by the carpenter Vīraṇāchāryya, son of Malla.'

(*Ibid. Maṇḍya Taluq*, no. 55 ;  
Transl., p. 45, last para.)

(44) ' For the carpenter Mallana, son of Vīraṇāchāryya, who engraved the grant, one share was given.' (A.D. 1474.)

(*Ep. Carnat.*, Vol. III, Malavalli  
Taluq, no. 121 ; Transl., p. 68.)

(45) ' It was engraved by Mallanāchāryya, son of Vīraṇāchāryya.' (A. D. 1513.)

(*Ibid.*, Nanjangud Taluq,  
no. 16 ; Transl., p. 97.)

(46) ' Kontāchāri, son of Konguṇi-āchāryya, blacksmith of Bai . . . of Bāguli, fighting in the war along with the ruler of the nād, went to Svarga (died).'

(*Ibid.*, Vol. IV, Chamarajnagar  
Taluq, no. 20 ; Transl., p. 3.)



- (47) 'Engraved by the carpenter Virañāchārya, son of Mallana.'  
(*Ep. Carnat.*, Vol. iv, Transl., p. 41, no. 30.)
- (48) 'And it was engraved by the carpenter Virañāchārya, son of Virāṇa.' (A.D. 1545.)  
(*Ibid.*, Nāgamaṅgala Taluq, no. 58 ; Transl., p. 128.)
- (48a) 'And this copper śāsana was engraved by the carpenter Mallanāchārya, son of Virānāchārya.' (A.D. 1515.)  
(*Ibid.*, Vol. v, Husan Taluq, no. 16 Transl., p. 5, para. 2.);
- (49) 'Engraved by the carpenter Virañāchārya, son of Virāṇa.' (A.D. 1561.)  
(*Ibid.*, no. 7 ; Transl., p. 6.)
- (50) 'Engraved by Appanāchārya, son of Virañāchārya.' (A. D. 1524.)  
(*Ibid.*, no. 94 ; Transl., p. 29.)
- (51) 'Mallanāchārya, son of Virañāchārya, enjoys one share as the engraver.' (A. D. 1512.)  
(*Ibid.*, Belur Taluq, no. 79 ; Transl., p. 65.)
- (52) 'Engraved by Virañāchārya, son of Mallanātha.' (A.D. 1539.)  
(*Ibid.*, Part I, Belur Taluq, no. 197 ; Transl., p. 108.)
- (53) 'By Mallana's son, the carpenter Virañāchārya, was it written.' (A.D. 1535.)  
(*Ibid.*, Ariskere Taluq, no. 126, Koman text, last line ; Transl., p. 169.)
- (54) 'Mallana's son carpenter Virañāchārya wrote (or engraved) it.'  
(*Ibid.*, Channaraypattana Taluq no. 167 ; Transl., p. 199.)
- (55) 'Written by the Senabova Kalajāchāriya's son Īśvara.' (A.D. 1279.)  
(*Ibid.*, Vol. vi, Mudgere Taluq no. 72 ; Transl., p. 72.)
- (56) 'The carpenter Virañāchārya, son of Mallana, engraved it.' (A.D. 1513.) Engraved by Virañāchārya, son of Gaṇapaya.' (A.D. 1587.)  
(*Ibid.*, Vol. vii, Shimoga Taluq, no. 83 ; Transl., p. 33.)
- (57) 'Engraved by Virañāchārya, son of Mallanātha.' (A.D. 1527.)  
(*Ibid.*, no. 85 ; Transl., p. 33.)
- (58) Āchārya, distinctly mentioned as an "architect" :  
Āchārya-dakṣhiṇe haste madhyamāṅguli-madhyame || (4)  
Parvaṁ mātrāṅgulaṁ jūeyam . . . | (5)  
Grāmādhva-kshetra-gaṇyeshu mānāṅgula-vidhānataḥ |  
Āchārya-dakṣkāṅgulibhir mite vyāsa-mīthādhikāḥ (?) || (7)  
(*Suprabhedāgāma*, xxx, 4, 5, 7.)

Cf. Āchārya-lakṣṇair yuktam sthapatir ity abhidhīyate ।

(59) Vāstu-jñānam athātaḥ kamalabhavanāṁ muni-paramparāyātām  
kriyate'dhunā mayedaṁ vidagdha-sāhvatsara-prītyai ॥

(*Bṛihat-saṁhitā*, LIII, 1.)

‘ The knowledge of the science of architecture has come down from Brahman through an unbroken series of seers (sages). I am now dealing with this (science of architecture) for the pleasure (i.e., benefit) of the learned (educated, experienced, hence professional) astrologers (sthapatīs, professional architects).’

Sāhvatsara—astrologer (*see* Sir M. W. Dict. p.1102). Kern translates the last pāda as “to gratify clever astrologers” but he attempts no explanation as to why the astrologers in particular are to be gratified on “a work on the art of building” (Kern’s translation of Vāstu-jñāna), which in fact forms no part of astrology proper. It is apparent that in Varāhamihira’s time the astrologers were intimately connected with the work of professional architects (sthapatī), as also the astronomers like Bhāskarāchārya and others; Śaṅkaraāchārya is, however, a philosopher.

Concerning the qualifications of architects it will be noticed that the sciences (*śāstras*) mentioned in the *Mānasāra* and other records examined above are not enumerated. But by “Śāstra” is generally meant (*cf.* M. W. Dict. *loc. cit.*) “any instrument of teaching, any manual or compendium of rules, any religious book or scientific treatise, any sacred book or composition of divine or temporal authority.” It is sometimes known as Vidyā, meaning knowledge, science, learning, scholarship or philosophy. It also means practical arts, such as agriculture, commerce, medicine, architecture, sculpture, painting (*cf.* Śilpa-śāstra, Vāstu-śāstra, etc.). Śāstra or Vidyā has fourteen divisions, viz., the four Vedas, the six Vedāṅgas, the Purāṇas, the Mīmāṁsā, the Nyāya, and the Dharma or law; or with the four Upa-Vedas, 18 divisions; others reckon 33 and even 64 sciences, generally known as Kalās or arts (*see* under Kalā).

But the expression “versed in all śāstras” need not be taken in too literal a sense. What architects are expected to know can be inferred from the details given occasionally in many places in the *Mānasāra* and other works. The chapters on the selection of site and the minute examination of soil (*see* Bhū-parikṣhā) will indicate an intimate knowledge of practical geology, which is essentially necessary for architectural purposes. The chapters on gnomon (*see* Śaṅku) and site plan (*see* Pada-vinyāsa) demand proficiency in mathematics (*see* also Jāla). The frequent references to the minute examination of trees and wood show a fair amount of knowledge in timber work (Botany). The examination of stones and bricks for building purposes, the preparation of different colours and mixtures of

different materials for painting, and the testing of jewels, etc., for decorative purposes, point to an acquaintance with chemistry and other allied sciences.

The chapter on the joining of wood (*see* Sandhikarman) will indicate a knowledge of everything architectural, however insignificant it may appear to a layman. The chapter on ornaments (*see* Bhūshaṇa) and mouldings (*cf.* Stambha) will show a high sense of æsthetics. A knowledge of the climate and weather of the locality where a house is to be built is essential to their work. The astrological and astronomical calculation is also frequently referred to. (*Cf.* *Mānasāra*, II, 40, quoted above, and *Bṛihat-saṁhitā*, LIII, 1.)

All these branches of knowledge are necessary for architects. Three out of the four architects forming a guild must be qualified generally in all of these. But each of the four must be expert in his own special subject. Takshaka must be an expert carpenter and joiner. Vardhaki must be expert in designing and painting. Sūtragrāhin must be an expert in drawing. The chief architect, Sthapati, should, in addition to all these qualifications, have an intuitive foresight so as to be able to calculate and decide everything quickly. This wise division of labour is necessary for successfully carrying out a big design in architecture or sculpture. From this it may be inferred that the architects of ancient India were once a well organized guild. It should be noticed that from the epigraphical records quoted above Dr. Fleet has come to the same conclusion.

It is very interesting to note that Vitruvius describes the qualification of architects in exactly the same way as given in the *Mānasāra* (and the other records quoted above). In both the treatises this topic is discussed at the beginning and in fact in the same place, the second chapter, which is preceded by a table of contents in the *Mānasāra*, and an introduction in *Vitruvius*.

'An architect,' says Vitruvius (Book I, chap. 1), 'should be ingenious, and adept in the acquisition of knowledge. Deficient in either of these qualities, he cannot be a perfect master. He should be a good writer, a skilful draughtsman, versed in geometry and optics, expert at figures, acquainted with history, informed on the principles of natural and moral philosophy, somewhat of a musician, not ignorant of the sciences of both law and physic, nor of the motions, laws, and relations to each other, of the heavenly bodies.'

'By means of the first-named acquirement, he is to commit to writing his observations and experience, in order to assist his memory. Drawing is employed in representing the forms of his designs. Geometry affords much aid to the architect: to it he owes the use of the right line and circle, the level and the square, whereby his delineations of buildings on plane surfaces are greatly facilitated. The science of optics enables him to introduce

with judgment the requisite quantity of light, according to the aspect. Arithmetic estimates the cost, and aids in the measurement of the works ; this assisted by the laws of geometry, determines those obtruse questions wherein the different proportions of some parts to others are involved. Unless acquainted with history, he will be unable to account for the use of many ornaments which he may have occasion to introduce. . . . Many other matters of history have a connexion with architecture, and prove the necessity of its professors being well versed in it.'

'Moral philosophy will teach the architect to be above meanness in his dealings, and to avoid arrogance ; and will make him just, compliant and faithful to his employer. . . . That branch of philosophy which the Greeks call the doctrine of physics is necessary to him in the solution of various problems ; as for instance, in the conduct of water. . . . Music assists him in the use of harmonic and mathematical proportion. It is, moreover, absolutely necessary in adjusting the force of the balistae, catapultae and scorpions. . . . Skill in physic enables him to ascertain the salubrity of different tracts of country, and to determine the variation of climates. . . . Law should be an object of his study, especially those parts of it which relate to party-walls, to the free course and discharge of the caves' waters, the regulations of cesspools and sewage, and those relating to window lights. . . .

'Astronomy instructs him in the points of the heavens, the laws of the celestial bodies, the equinoxes, soltices, and courses of the stars ; all of which should be well understood, in the construction and proportions of clocks.'

It is important to notice that Vitruvius denies the necessity of an architect's being completely trained in 'all the sciences and arts' as suggested in the *Mānasāra* :

'On this account Pythius, one of the ancient architects of the noble temple of Minerva at Priene, says in his commentaries, that an architect should have that perfect knowledge of each art and science, which is not even acquired by the professors of any one in particular, who have every opportunity of improving themselves in it. This, however, cannot be necessary ; for how can it be expected that an architect should equal Aristarchus as a grammarian, yet should he not (?) be ignorant of Grammar.'—(*Vitruvius*, Book I, chap. 1, translated by Gwilt.)

The social position of architects is not quite clear from the literary or epigraphical records examined above. But from the functions assigned to each of the four architects, it would appear that the first three, namely, Sthapati, Sūtragrāhin and Vardhaki, belong to the higher classes. Further, from the liberal presents and rewards given on each occasion equally to the Guru (preceptor) and the Sthapati, which are so frequently mentioned,

it seems probable that the Sthapati had an enviable position. This latter point might account for his excommunication mentioned in the epigraphical records quoted above.

**STHĀNA**—The place of standing or staying, any place, spot, locality, the abode, dwelling house, room, shrine, a monastic establishment.

(1) 'We, Kauṣika-Nagama-Bhaṭṭana, a Śiva-Brāhmaṇa, in charge of the shrine (sthāna) of the temple of Tiruvallam-udaiyār at Tiruvallam.'

(Inscrip. of Rajendra, no. 55, line 4, *H. S. I. I.*, Vol. III, p. 113.)

(2) 'List of shrines to which allotments were made :—Virabhadra-deva (1, 12), Brahmāṇī, Īsvarī (1, 13), Vaishṇavī (1, 14), Indrāṇī (1, 15), Gaṇapati (1, 16), Chāmuṇḍeśvarī of the chief shrine (mūla-sthāna)'

(Inscrip. at Kolar, no. 66, *H. S. I. I.*, Vol. III, pp. 136-137.)

**STHĀNAKA**—A class of buildings in which the height is the unit of measurement, the temples in which the idols are placed in the erect posture.

(*M.*, XIX, 7-11, see under APASAMCHITA ; cf. also XLVI, 30, XLVII, 1, LVIII, 11, etc.)

**STHĀNIYA**—A city, a fortress, a site plan in which the whole area is divided into 121 equal squares.

(*M.*, VII, 13 ; cf. also IX, 365, 368, 478.)

A fortified city (*M.*, X, 41).

A fortress to defend 800 villages :

Ashṭa-śata-grāmyā madhye sthāniyaṃ, chaturśata-grāmyā droṇa-mukhaṃ, dvi-śata-grāmyā khārvaṭikaṃ, daśa-grāmi-saṃgrahaṇa saṃgrahaṇaṃ sthāpayet !

(*Kauṣīlyā-Artha-śāstra*, Chap. XXII, p. 64, para. 4.)

Jana-pada-madhye samudaya-sthānaṃ sthāniyaṃ niveśayet !

(*Ibid.*, Chap. XXIV, p. 51, para. 2.)

**STHĀṆU**—A synonym of Stambha or column.

(*M.*, XV, 5, see under STAMBHA.)

**STHĀPAKA**—One who installs, actual worker, perhaps the principal assistant to the chief architect (stapati), not the master who is called Kartā.

(*M.* XXXVII, in particular, cf. lines 7 and 34, 70-71.)

**STHĀPATYA**—A house relating to architects or architecture, architectural or sculptural workshop.

Analānīla-koṇe vā sthāpatyālayam eva cha !

(*M.*, XXXII, 78, cf. also 66.)

**STHĀPANA-MANḌAPA**—A room or pavilion where the idol is installed after it is washed and dressed, the sanctuary.

Prāsādābhimukhe sapta-maṇḍapaṁ kalpayet kramāt |  
 Ādau cha snapanārthaṁ cha dvitīyam adhyayana-maṇḍapam |  
 Viśeṣaṁ snapanārthaṁ cha maṇḍapaṁ cha tritīyakaṁ |  
 Chatuṛthaṁ pratimāgāraṁ pañchamaṁ sthāpana-maṇḍapam |

(*M.*, xxxiv. 45-48.)

**STHĀVARA-BERA**—A stationary idol.

(*M.*, li, 17, etc.)

**STHIRA-VĀSTU**—A permanent building.

Sthira-vāstu-kukshi-dēśe tu chara-vāstu tathāpi cha |  
 . . . garbha-śvabhraṁ prakalpayet |

(*M.*, xii, 170-171, see also 43.)

**STHŪṆA**—The civic and sacrificial posts used as memorial pillars, symbolising royal and divine power to which offenders and sacrificial victims were tied, 'maintained by the Fathers', upon which 'Yama makes seats for the departed.' (*R.V.* x, 13, 3; *A.V.* xviii, 3, 52), made of copper, bronze or iron (ayas, *R.V.* v, 62, 7, 8), a synonym of Stambha or column.—(*M.*, xv, 5; see under STAMBHA.)

**SNĀPANA-MANḌAPA**—A class of pavilions used for bathing, a washing room.

(*M.*, xxxiv, 43-48, etc.; *Suprabhedāgama* xxxi, 96, 97; see under MANḌAPA.)

**SNĀNA-DROṆI**—Bathroom for a deity.

(*Chamṣa*, by Mazumdar, p. 237.)

**SNĀNA-MANḌAPA**—A pavilion for bath, a bathroom:

(*M.*, xxxii, 74, etc.; see MANḌAPA.)

**SNĀPANA-MANḌAPA**—A washing room, a pavilion where idols are washed.

Snāpanārtha-maṇḍapaṁ chāpi snāna-maṇḍapam eva cha |

(*M.*, xxxii, 74; cf. xxxiv, 46, 47, etc.)

**SPHŪRJAKA**—A class of twelve-storeyed buildings once prevailing in the country of Sphūrjaka (?).

Pāñchālaṁ drāviḍaṁ chaiva madhya-kāntaṁ kāliṅgakaṁ |  
 Virāṭam keralaṁ chaiva varṣakaṁ māgadhaṁ tathā |  
 Janakaṁ sphūrjakaṁ chaiva daśa-kāntaṁ prakīrtitam |

(*M.*, xxx, 5-7; see under PRĀSĀDA.)

**SYANDANA**—A synonym of yāna or conveyance, a chariot.

(*M.*, iii, 9, 10; xix, 145.)

*Cf.* Viśāla-ratha-vithir̥ cha syandanam mandaropamam |

'Built a car like the Mandara mountain and also broad roads (round the temple).'  
—(Kṛishṇapuram Plates of Sadāśivaraya, v. 57, *Ep. Ind.*, Vol. ix, pp. 336, 341.)

SVAYAMBHŪ—Self-revealed, a kind of phallus.

(*Kāmikāgama*, I, 35; *M.*, LI, 227; see under LINGA.)

SVAMIKĀRA—Svādhyāyaka, reader of sacred literature.

(*M.*, XL, 124.)

SVARGA-KĀNTA—A class of eight-storeyed buildings.

(*M.*, XXVI, 28-33; see under PRĀSĀDA.)

SVARṆA-LINGA—A kind of phallus, a phallus made of gold.

(*M.*, LI, 333, etc.)

SVA-VRIKSHA—A type of round temple.

(*Agni-Purāṇa*, Chap. civ, vv. 17-18; see under PRĀSĀDA.)

SVASTIKA—An auspicious mark, the *Omkāra* symbol, the fire cross, the sun symbol, a symbol for Buddha and Siddha, the crossing of the arms, the meeting of four roads, a type of village, a joinery, a window, a type of pavilion, a kind of phallus, a class of halls, a type of building, a sitting posture.

A class of two-storeyed buildings—(*M.*, XX, 94, 34-41; see under PRĀSĀDA).

A class of villages (*M.*, IX, 3, 330; see GRĀMA; compare *M.*, XII, 76, 77, 146; XLIX, 152; LIV, 120; LVIII, 12).

A kind of joinery—(*M.*, XVII, 60).

A kind of window—(*M.*, XXXIII, 583; see under VĀTĀYANA).

A pavilion with three faces :

Dvi-vaktraṁ daṇḍakaṁ proktaṁ tri-vaktraṁ svastikaṁ tathā |

(*M.*, XXXIV, 552.)

A class of mansions or halls (*M.*, XXXV, 3, 80).

A kind of phallus—(*M.*, LI, 4, 120).

(2) Aparō'nta-gato' lindah prānta-gatau tad-utthitau chānyau |

Tad-avadhi-vivṛitaṁ chānyaḥ prāg-dvāraṁ svastike śubhadam ||

'The Svastika (building) is auspicious if it have the entrance on the east side, and one continual terrace along the west side, at the ends whereof begin two other terraces going from west to east, while between the extremities of the latter lies a fourth terrace.'

Commentary quotes Garga:

Pāschimo'ntagato'lindah prāg-antau dvau tad-utthitau |

Anyas tan-madhye vidhṛitaḥ prāg dvāraṁ svastikaṁ śubham ||

(*Bṛhat-saṁhitā*, LIII, 34, *J. R. A. S.*, N. S., Vol. vi, p. 286, note 1.)

A kind of octagonal building :

(3) *Agni-Purāṇa* (chap. cv. vv. 20, 21 ; see under PRĀSĀDA).

(4) *Garuḍa-Purāṇa* (chap. XLVII, vv. 21, 23, 31-33 ; see under PRĀSĀDA).


(5) *Kāmikāgama* (xxxv, 89) refers to a mansion (śālā) :


Dakṣiṇe chottare chaiva śaṅ-ṇetraṃ svastikaṃ matam |






Pārśvayoḥ purataś chaiva chatur-netra-samāyutam ||

An entablature (*ibid.*, lrv, 7).

*Ibid.*, XLII (named Svastika-vidhi) divides buildings into four classes namely, Jāti, Chhanda, Vikalpa, and Ābhāsa (vv. 3-4), which are described in detail (vv. 5-30).

(6) See the figure  (specimens of Jaina sculpture from Mathura, *Ep. Ind.*, Vol. II, p. 311).

(7) 'The capacity of the well, well accounts for the time taken in its construction. There are four entrances leading into the well, and they are so constructed as to give it the shape of the svastika symbol . (This should be compared with the village named Svastika.) From each of the entrances, a flight of steps leads to the interior of the well.'—(*Ep. Ind.*, Vol. XI, p. 155, para. 2, note 1.)

(8) 'In the inscriptions from the cave temples of Western India, Bombay, 1881, are given a quantity of clearly Buddhist Square Pāli Inscriptions from Kuḍā, Kārle, Śailawāḍi, Junnar, etc. Many of these contain Svastikas at the beginning and end. Kuḍā no. 27 has at the end ; but at the end of 29 is  which occurs again at the beginning and end of Kārle inscriptions, and beginning and end of Junnar 30, at the beginning of Junnar 5, 20, 28, 32 and 34, and at the end of Junnar 32 ; while  occurs at the beginning of Kuḍā 30 and of Junnar 6 and 27, and the end of 33. The form  is found at the end of the Śailawāḍi inscription, and  at the end of Kārle 2. Thus cave temple disproves the theory that the Christian Svastikas point to the left or westwards, whereas the Indian including Buddhist and Jain Svastikas, point to the right or eastwards.'

(*Ind. Ant.*, Vol. xv, p. 96.)

(9) 'The Svastika is called by the Jains Sāthis, who give it the first place among the eight chief auspicious marks of their faith. It would be well to repeat here, in view of what follows, the Jain version of this symbol as given by Pandit Bhagwanlal Indraji (the Hathigumpha inscriptions, Udayagiri Caves, p. 7), who was told by a learned Yati that the Jains believe it to be the figure of Siddha. They believe that, according to a man's karma, he is subject to one of the following four conditions in the next life—he either becomes a god or deva, or goes to hell (naraka), or is born again as a man, or is born as a lower animal. But a Siddha in his next life attains to nirvāṇa and is, therefore, beyond the pale of these four conditions. The Svastika



represents such a Siddha in the following way. The point or bindu in the centre from which the four paths branch out is jīva or life, and the four paths symbolise the four conditions of life. But as a Siddha is free from all these, the end of each line is turned to show that the four states are closed for him.'

'The Buddhist doctrines mostly resemble those of the Jains, it is just possible that the former might have held the Svastika in the same light as the latter. In the Nasik inscription, no. 10, of Ushavadata, the symbol is placed immediately after the word 'Siddham' a juxtaposition which corroborates the above Jain interpretation. We find the Svastika either at the beginning or end or at both ends of an inscription and it might mean Svasti or Siddham.' Mr. Y. S. Vavikar.'

(*Ind. Ant.*, Vol. xxvii, p. 196.)

(10) 'The usual Indian symbols are of frequent occurrence, e.g., the Svastika in various forms on most of the Plates and specimens of the familiar circular Sun-symbols.'

Mr. Fawcett quotes 32 sun and fire symbols of Plate I of Mr. Murray Ansley's papers on Asiatic Symbolism (*Ind. Ant.* Vol xv, p. 66) and says that 'the whole of these may be taken to be developments in various directions of the cross, and for Indian investigations of the Svastika.'

(*Ibid.*, Vol. xxx, pp. 413-414.)

(11) 'This emblem (the ancient mystic emblem of the Bon Religion Tungdrung ཡོན་ཏྲུང་) in my view was invented to represent the Sun as the creator of East, South, West, and North, the little mark at the end of each line indicating the inclination of the sun to proceed from one point to the other.'

'Rev. A. W. Heyde of Ghūm tells me that Yungdrung as a monogram is said to be composed of the two syllables, ཨ་ su and ར་ ti, suti = Svasti.' Mr. A. H. Francke.


(Ladakhi pre-Buddhist marriage Ritual,  
*Ind. Ant.*, Vol. xxx, p. 132, paras. 1, 4.)

(12) 'Plate iv (facing p. 400), Fig. 2 (𑀧𑀺, 𑀧𑀻) contains two reversed forms of the Svastika (yungdrung).'

Mr. Francke refers to the above quotation 'for an explanation of this form of Svastika in Ladakh,' and repeats that 'it is the emblem of the Bon Religion.'

(Notes on Rock-Carvings from lower Ladakh,  
*Ind. Ant.*, Vol. xxxi, p. 400, para. 3.)

(13) 'M. Burnouf holds that this mysterious and much debated symbol (Svastika 𑀧𑀻, 𑀧𑀺) is intended to denote the invention of the fire-drill, and preserve the sacred remembrance of the discovery of fire by rotating a peg in dry wood. It represents according to him, the two pieces of wood laid crosswise, one upon another, before the sacrificial altar, in order to produce

the holy fire. The ends of the cross were fixed down by arms, and at the point where the two pieces are joined there was a small hole in which a wooden peg or lance (pramantha, whence the myth of Prometheus, the fire-bearer) was rotated by a cord of cow-hair and hemp till the sacred spark was produced. The invention of the fire-drill would mark an epoch in human history. Mr. Tylor, in his *Early History of Mankind*, has largely shown its use at some period in every quarter of the globe, and it is conceivable that its invention would be commemorated by a holy symbol. After this Mr. Walhouse has shewn that both forms existed in all countries of Europe, Asia and Africa. "Its first appearance (in Europe) is on the pottery of archaic Greece, as on that in the British Museum ascribed to between the years 700 and 500 B.C." About India, he says that "a character nearly resembling the runic G, occurs in a Pāli inscription, and reversed , in a rock-inscription at Salsette" (*J. R. A. S.*, Vol. xx, p. 250, etc.). He has also shewn that it is both a Buddhist, Jaina, and Christian emblem. "In our own day," says he, "it has become a favourite ornamental device,"—we may be sure with no thought of symbolism,—and archæologist returning from India may observe it covering ceilings, cornices, fenders, and other ironworks.'

(*Ind. Ant.*, Vol. vii, p. 177, c. 2, para. 2 f.)

(14) 'In describing coin no. 3 of this series (*Numismatic Chronicle*, N. S., Vol. xx, pp. 18-48, p. 62) I pointed out that the place of the more definite place of the Sun, in its rayed wheel form, was taken up by the emblematic cross of the Svastika.'

'Under the advanced interpretation of the design and purpose of Svastika, from an Indian point of view, now put forward . . . the figure, as representing one of the received attributes of the Sun, was used conventionally, to typify the solar orb itself.' E. Thomas.

(*Ind. Ant.*, Vol. ix, p. 65, c. 1, para. 2 ; p. 66, c. 1, para. 2.)

(15) 'I come now to show that the figure called the Svastika symbolizes the idea of circumambulation, derived from the apparent movement of the sun from left to right round the earth. The idea is this, that if a person faces the east at sun-rising and follows its movement southward and westward he will turn with his right hand fixed towards an object supposed to be placed like the earth in relation to the sun, in the centre of a circle.

'The argument, therefore, amounts to this : that as the figure or the Svastika is found scattered through countries reaching from Japan to England, so also the custom of turning sunways, or with the sun, is equally widespread ; and secondly, that as the Svastika is a sign of good luck, signified by its etymology, so also the practice of turning with the sun is considered a lucky or fortunate proceeding and turning in the contrary way, especially

among northern people, is dreaded as entailing a curse . . . ; the custom and the symbol, therefore, we argue are co-related.' Rev. S. Beal.

(*Ind. Ant.*, Vol. ix, p. 67, c. 2, para. 5 ; p. 68, c. 2, para. 2.)

(16) Mr. Sewel after quoting a number of theories on the origin of the symbol, namely, of General Cunningham (*Edinburg Review*, January, 1870), Rev. Haslam (*The Cross and the Serpent*, 1849), Mr. Brinton (*Myths of the New World*), Dr. J. G. Müller (*Geschichte der Amerikanischen Urreligionen*, p. 497), and of Mr. Baldwin (*Ancient America*, New York, 1879, p. 186), says 'for myself, I boldly range myself under Mr. Thomas's Sun-standard.'—(*Ind. Ant.*, Vol. x, p. 202, c. 1, line 6.)

(17) Mr. Murray-Ansley seems to agree with the theory that the Svastika has originally been an emblem of the sun. He correctly adds that 'in India Hindus belonging to certain sects are in the habit of tracing one or more figures of the Svastika on the outer walls of their houses.' He also mentions its use in connexion with the marriage presents in India and Spain.—(*Ind. Ant.*, Vol. xv, p. 93, c. 1, para. 1 ; c. 2, para. 2.)

(18) 'The svastika or fylfot is one of the most ancient symbols mankind has. Much is heard of it nowadays, and in one country much is seen of it, where it is presumed to be especially connected with the mysterious conception called Aryan<sup>1</sup>, and with the Christian Faith as a national possession and discrimination. "Rise of a benign power" or "lucky time" is the meaning attached to it in Germany where it is supposed to have a German origin and an anti-Semitic signification.'

'Wherever the sign came from, it did not come from Germany. It is not a natural symbol of the Aryan race, which is not a race but a myth or scientific abstraction. It was not invented by European peoples. Fifteen centuries before India knew anything of Europe the sign was used by the people of the Indus valley, as is shewn by the great excavations on sites along that river, and those peoples were not Aryans or Europeans or Indo-Europeans, nor in any sense the direct ancestors of the Germans. Europe, it seems, knew nothing of the sign until a thousand years later than the date of the specimens found in large numbers in that part of India. When early Christians used it, as they often did, they were using something borrowed from older religions or civilizations. A good claim can be made out

<sup>1</sup>Adolf Hitler has, however, explained the significance of Svastika which is included in the new German flag—Red with a white disc in the centre bearing the black Svastika—as follows :

"The red expressed the social though underlying the movement (of the National socialists) ; white, the National thought ; and the Svastika signified the mission allotted to us—the *Struggle for the Victory of the Aryan Mankind* and at the same time the triumph of the ideal of the *Creative Work* which is in itself and always will be anti-semitic."—(*Mein Kampf*, 1939, pp. 409 note, 411.)

for Egypt as its inventor, where the symbol for created life was a cross with a circle on top or resting on the left arm, and that combined with the symbol for Divinity in the hieroglyphics (something like a small flag) might easily have developed into the svastika we know. From Egypt it could have spread over the Mediterranean world and the Near East, for there was much trade and travel in early days. SCHLIEMANN found both forms of it, the right and left handed, in the ruins of Troy, and it has been discovered also on Chaldaean bricks, in Egyptian temples, on vases of Cyprus, Hittite carvings, Etruscan pottery, in India's cave temples, on Roman altars and British runic monuments, in Tibet, China, Korea, Mexico, Peru, and in the pre-historic burial ground of North America. Germany's sole right to it is far from established.'

'The origin of its name is less disputed. Sanskrit has the credit—*su* (well) *asti* (is) *ka* (a noun ending) *Svasti* (it is well), India has said at the beginning of any auspicious act, and "it is well" is the meaning of the sign throughout the ages. "Life is beneficent." It indicates—we quote from a woman writer on symbolism—"That the maze of life may bewilder, but a path of life runs through it: *It is well* is the name of the path, and the key of life eternal is in the strange labyrinth for those whom God leadeth." A rival interpretation finds in the word another Sanskrit element, the *swa* (self) of *swaraj* and similar words, relating the svastika to the good that comes from one's own efforts, but that view has found little acceptance. In general man has seen in the sign an assurance that somewhere in this fluid difficult chaotic life there is stability and benevolence, and he reads it as an assurance that he should struggle on in hope.'

'For this reason some have sought its origin not in the religious symbolism of Egypt, but in the pattern of the heavens. In the sky only the Pole Star is stable and constant. All else moves round it. So the fixed, the reliable, the *dhruva* of the old Indian astronomers, became an assurance that there was the seat of a power kindly to man. Anyhow we must believe that India has given the larger part of the associations that have always gone with the Svastika, though it might come as a shock to some good Germans to be told that they are in the same line of thought as Hindus and Buddhists who begin an important piece of work with "svasti" and welcome a guest with "svastu" "be it well".'

(*Statesman*, October 14, 1934.)

The extensive literature dealing with this most ancient and popular symbol in its all aspects (viz. etymology, antiquity, various countries and peoples who employ'd it, and the four main theories of its significance) as summarized by the writer may be quoted (from the *Indian Review*, December, 1940, pp. 754-761) below :

The term 'Svastika' is etymologically composed of three parts 'su' (good, auspicious), 'asti' ('as' to be, 'ti' affix for third person singular

or the suffix 'ti' added to verbal root to form verbal or abstract noun, like 'gati' going; 'rati', love or love goddess, etc., thus 'asti' may be equivalent to 'sthiti', stay or settlement) and the suffix 'ka' (to imply possession of, as in Bāla (=hair) ka (possessing) which means a boy having his hair grown. This derivation of the term from Sanskrit is corroborated by the monogram Yungdrung which as quoted above is composed of two syllables, su (卍) and ti (卐) and is the mystic emblem (卐) of the Bon religion Tungdrung. Mr. A. H. Francke (*Ind. Ant.* xxx, 132) took this symbol to represent the sun as the Creator of East, South, West, and North, the little mark at the end of each line indicating the inclination of the sun to proceed from one point to the other. Thus the Sanskrit 'svastika' should imply any object possessing, indicating, or ending at an auspicious omen. This etymological meaning of the classic emblem has retained its original sense everywhere probably excluding Germany of Hitler's day. But there are various theories to explain its design and purpose.

According to some (*see* above M. Burnouf, Mr. Tylor, Mr. Walhouse, *Ind. Ant.*, Vol. VII, p. 177) the svastika symbol (卐卐) is intended to denote the 'invention of the fire-drill, and preserve the sacred remembrance of the discovery of fire (at the neolithic age) by rotating peg in dry wood. The symbol represents the two pieces of wood laid crosswise, one upon another, before the sacrificial altar, in order to produce the holy fire. The ends of the cross were fixed down by arms, and at the point where the two pieces are joined there was a small hole in which a wooden peg or lance was rotated by a chord of cow-hair and hemp till the sacred spark was produced'

The myth of Prometheus appears to have originated from *Pramantha* or lance. The invention of fire-drill marks an epoch in human history, Till then there was hardly much difference between men and beasts. For in the palæolithic or old stone age, men could use for defence and offence only the implements of wood, bone or stone, rude in form and entirely devoid of skilled workmanship. In the new stone age, however, higher type of implements came into use. Men then developed the intelligence and skill to grind and polish the rude instruments of earlier age in order to make more effective use of them. The neolithic men were not, like their Palæolithic fore-fathers, ignorant of the use of fire and the potter's art. They could then cook meat and fish. They could make with hand pottery which was later turned on wheel. They honoured their dead parents and relations by elaborate tombs frequently built of massive stones. This sort of ancestral worship was the beginning of the belief and faith in a Creator or the God, who is the ultimate father of all beings. Thus

if the svastika symbol be ascribed to the period when the production and use of fire became known to humanity it would claim a very great antiquity so far as India is concerned. For the discoveries at Mahenjo-Daro show unmistakably that at 3000 B. C. Indians not only knew the use of all metals including gold but culturally made an all-round progress, and this Mahenjo-Daro period must be at least 2000 years later than the new stone age when the production and use of fire became known to them.

It, however, should be noted that the fire-origin of svastika will militate against its root meaning. Because however useful fire may be, its main function is to burn or destroy whatever comes in contact with it. Thus it would be an emblem of destruction like cross with which Christ was crucified or murdered. But etymologically svastika must mean 'the good settlement' or an auspicious emblem as its later use will clearly show.

According to another school of thought as represented by Rev. S. Beal (*Ind. Ant.*, Vol. ix, p. 67 ff.), Mr. Sewel (*Ind. Ant.*, Vol. x, p. 202) and Mr. Murray-Ansley (*Ind. Ant.*, Vol. xv, p. 93 ff.) the svastika figure 'symbolizes the idea of circumambulation, derived from the apparent movement of the sun from left to right round the earth.' The idea appears to be this that if a person faces the east at sun-rising and follows its movement southward and westward, he will turn with his right hand fixed towards an object supposed to be placed like the earth in relation to the sun, in the centre of a circle.

This theory is corroborated by the world-wide use of the svastika symbol, so also the custom of turning sunways or with the sun, which is equally widespread. The further support to the sun theory is lent by the argument that 'the svastika is a sign of good luck, signified by its etymology, so also the practice of turning with the sun is considered a lucky or fortunate proceeding and turning in the contrary way is dreaded as entailing a curse.' Thus the custom and the symbol are co-related. The exponents of the cross-symbol theory of the svastika figure like Mr. Fawcett (*Ind. Ant.*, Vol. xxx, pp. 413-414) hold that the 32 sun and fire symbols (gathered together by Murray-Ansley (*Ind. Ant.*, Vol. xv, p. 66)) 'may be taken to be developments in various direction of the cross.' This school of thought fail, however, to explain the appearance of svastika beyond a thousand years before the birth of Christ in connexion with whom the deadly weapon, cross, assumed a symbolic significance.

Numerous other theories adumbrated by General A. Cunningham (*Edinburg Review*, January, 1870), Rev. Halsam (*the Cross and the Serpent*, 1849), Mr. Brinton (*Myths of the New World*), Dr. J. G. Mühler (*Geschichte*

der Amerikanischen Urreligionen, p. 497), Mr. Baldwin (*Ancient America*, New York, 1879, p. 186), and many others associate the svastika figure with the fire, sun, or cross symbol and do not advocate an entirely separate origin.

The fourth group of theories as elaborated by Mr. H. K. Deb (*J. A. S. B.*, Vol. xvii, p. 229 ff.) and others associate the svastika symbol with the mystic syllable 'Om'. This syllable in Sanskrit consists of three letters 'a', 'u' and 'm', which are variously connected with the gods of Creation, Preservation, and Destruction, as well as with the three Vedas, the R̥g, Sāman, and Yajus. But the sound 'o' of the mystic syllable is represented by a single letter which in the Brāhmi script looks exactly like one arm (∑, Z) of the svastika figure (卐) and the nasal sound, 'm' is represented in Brāhmi by a small circle or dot with two ear-like projections (𑖞), which later on is shown by the dot only, with or without a crescent line below (𑖟). 'O' in grammar is stated to be a long vowel and it is held that in pronouncing the mystic syllable the 'o'-sound is lengthened by repetition and that the repetition is indicated in writing by two o's like a conjoined letter by placing them crosswise. And the nasal sound 'm', which is necessary in order to have a pause after a vowel sound, is indicated by a dot-like mark at the ends of the Brāhmi 'o'-symbol. Such dot-ending svastika figure is seen in numerous instances in Cunningham's *Coins of India* and in Rapson's *Coins of Andhras*, and D'Alviella's *Migration of Symbols* (p. 71), and in other places. In fact, this dot mark or a slight projection from the ends makes the svastika figure more ornamental.

If this identification of svastika with the 'Om' syllable, or the development of the former out of the latter, be accepted, three points would be further clarified. First, the auspicious character of the svastika figure will get support because the 'Om' syllable like the svastika figure is used at the commencement of something auspicious. The prefacing of 'Om' in pronouncing anything is followed down to this day by 'Svasti' (good luck) and it is also the practice to add 'Svasti' immediately after 'Om' in order probably to clarify or emphasize the meaning of the mystic syllable. Secondly, if the formation of the svastika figure from the joining of two Brāhmi o's in a crosswise manner be accepted a very great antiquity can safely be attached to this classic symbol, because the title 'Brāhmi' implies its origin from Brahma or the Creator Himself and the Brāhmi alphabet may be associated with the writings discovered at Mahenjo-Daro dating from 3000 B. C. Despite various other theories the indogenous origin of the Brāhmi can hardly be questioned although the history of its origin has yet to be written. Thus, thirdly, the Indian origin of the

svastika is further vouchsafed by the etymology of the term, which is unquestionably Sanskrit and Indian.

Before examining the very widely spread use of the svastika figure in Indian life and culture, it is desirable to notice briefly its antiquity and use in other countries, without, however, committing oneself about its migration from India, or its independent growth in other countries all over the world. Thomas Wilson in his book *Suastika* (Report of the Smithsonian Institution, 1894) has largely referred to the various objects of different countries whereupon the svastika mark has been found. 'The earliest undoubted reference of the svastika', as held by Mr. H. K. Deb, 'is said to be in connection with the Third city on the site of Hissarlik, identified with ancient Troy.' It is common also in the Fourth and Fifth cities on the same site, and is principally found there on spindle whorls, dating approximately from fourteenth or thirteenth century B. C. It is, however, a remarkable fact that this svastika was not found in the First and Second cities but emerged in a variety of forms in the Third or the burnt city. This fact clearly indicates that the svastika was foreign to Troy and that it was imported and introduced there about the middle of the second millennium B. C. Its importation from Vedic India is indicated by Professor Winckler's discoveries at Boghaz Kuei. It has been established by C. H. W. Johns (*Ancient Assyria*, 1912, p. 54) that about 1400 B. C. kings with Indo-Aryan names and worshipping vedic gods were ruling the region of Mitanni. 'The names Sutarna, Dushratta, etc., have a distinctly Indo-Aryan appearance. It is instructive to compare the name Gilukhipa, borne by a daughter of Sutarna I, who was also queen of Amenophis III of Egypt (c. 1400 B. C.) with the name Gurukshepa (Pargiter, *Dynasties of the Kali Age*, p. 9) borne by the third successor of Bṛihadbala of Kosala who had fallen in the Bharata War.' Ample evidence has been secured which goes to show that there was intimate inter-communication at that period among the different peoples inhabiting Asia Minor, Egypt and the Aegean Island, so that the Vedic religion obtaining in Mittani had many opportunities for circulation abroad. Earlier still, Mittani had been the centre of an extensive empire, and the migration of the svastika symbol to Troy in those days is intelligible enough (*J. R. A. S.*, Vol. xvii, p. 242).

In Greece the svastika appears on the archaic pottery ascribed to between the years 700 and 500 B. C. In the Thomas Wilson's list the Fig. 140 shows the Grecian geometric vase of Smyrna, Fig. 153 shows the geometric Grecian vase of Thesa., Fig. 155 shows another Grecian vase (oinochoe), and Fig. 130 shows the Naukratis vase of Greece. In the same list Fig. 186 shows the Cervetri-Italian cinerary Urn, and Fig. 171 shows the detail of



Rhodian vase. The Figs. 59 and 69 of the same list show the spindle whorl of Troy.

The svastikas composed of four small squares (☐☐) and the archaic cross type (卍) are found on old Greek coins and as an ornamental device on early Greek pottery in Samos, Cyprus, and Hissarlik. It is also to be found on early Latin, Etruscan, and Sicilian ornaments, coins, and pottery, as well as in Asia Minor and North Africa, especially where there had been Phœnician colonies. It is hardly to be found on Egyptian, Babylonian or Assyrian remains.

In the Museums of Sweden and Denmark there are several hundred gold bracteates which appear to have been worn as amulets or medals, frequently bear the svastika mark drawn both ways.

In the Roman Catacombs the svastika occurs not frequently, as a Christian symbol in Roman mosaic work in England, France, Spain and Algeria. It is abundant on pottery, ornaments, and weapons of Roman-British and Anglo-Saxon times, and of corresponding periods in Scotland, Germany, Switzerland, and Denmark. A sepulchre was found in Norfolk and another preserved at Cambridge, bear the svastika in continuous lines. A whole row of svastika surrounds the pulpit of St. Ambrose at Milan; it is seen also on wall paintings at Pompeii, on ancient Athenian and Corinthian vases and in the large Mosaic in the royal garden at Athens. It is also found in Hungary, China and Japan where it is frequently used as a potters' marks (*Ind. Ant.*, Vols. vii and xiv). Clothes used in Spain for covering the trays, were bordered with the svastika only for ornamentation. Professor Max Müller found it in Bishop's Island near Königswalde on the right bank of the *Odor*, near Guben. It is seen also on a celtic Urn found at Shropham in Norfolk and now in the British Museum. The form of it (☸) known as the double sun snake of Scandinavia has been found on pottery in the Island of Cyprus, specimen of which is in the Museum of St. Germain in France. Svastika has also been found on a Christian tomb with a Latin inscription, discovered in 1879 at Rome. It is most rare and common in Norway, Denmark, and Sweden. A stock bearing the date 1809 in the Norwegian Museum in Stockholm is covered with svastikas of the double sun snake type (☸).

Professor Max Müller concludes that the svastika has been found in nearly every country of Europe (*Ind. Ant.*, Vol. xv, p. 94). In his *Early History of Manicind*, Mr. Tylor has shown the extensive use of the svastika symbol at some period in every quarter of globe as exemplified above. And Mr. Walhouse (*Ind. Ant.*, Vol. vii, p. 177) has identified both the right-handed and left-handed forms in all countries of Asia, Europe, and Africa.

140



186



155



153



171



130

130—Grecian vase NAUKRATIS—Wilson, *The Svastika*, Fig. 130.

140—Grecian geometric vase of Smyrna—Wilson, *The Svastika*, Fig. 140.

153—Grecian geometric vase of Thesa—Wilson, *The Svastika*, Fig. 153.

155—Grecian vase OINOCHOE—Wilson, *The Svastika*, Fig. 155.

171—Rhodian vase—Wilson, *The Svastika*, Fig. 171.

186—Cervetri-Italian Cinerary urn—Wilson, *The Svastika*, Fig. 186.

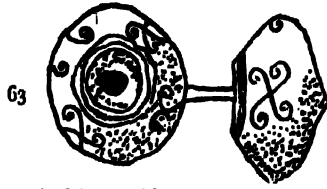


Fig. 63—The spindle whorl of Troy with ogee Svastika—Wilson, *The Svastika*, Fig. 63.

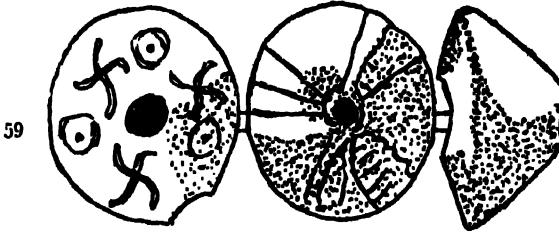


Fig. 59—Biconical spindle whorl of Troy—Wilson, *The Svastika*, Fig. 59.



Fig. 20—Indian coin, Eran, Fig. 20, Plate XI, in Cunningham's "*Coins of Ancient India*", containing snake pattern of Svastika.

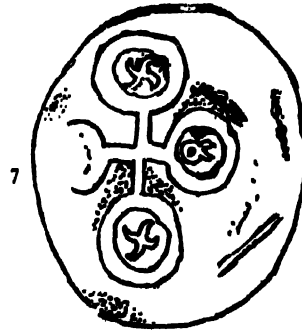


Fig. 7—Indian coin. Ujjain, Fig. 7, Plate X, in Cunningham's "*Coins of Ancient India*".  
(Reproduced through the courtesy of Smithsonian Institution.)

In the land of its origin the svastika symbol, whether identified with the 'Omkāra' or not, has been popular, both as an auspicious emblem as well as an ornamental device, with the followers of Brāhmanism, Jainism and Buddhism. As referred to above, all pronouncement in Sanskrit commences with 'Om' and 'Svasti'. Several epigraphical records open with the svastika symbol. Coins also bear this symbol. For instance, in Cunningham's *Coins of Ancient India*, Fig. 20 of plate XI shows a unique specimen of an earthen coin, and Fig. 7 of plate X represents another interesting specimen of svastika with the Brāhmi 'o' and 'm' actually depicted.

The svastika is called by the Jains 'Sathis'. They give it the first place among the eight chief auspicious marks of their faith. Bhagwanlal Indrajī (*Hathigumpha Inscriptions, Udayagiri Caves*, p. 7) testifies on the authority of Yatis that 'the Jains believe it to be the figure of Siddha, who is beyond the four conditions of life, viz. to become, after death according to one's action in life, a god or to go to hell or to be born again as a man or a lower animal.' The Siddha is represented by the svastika in this way. The point (bindu) in the centre from which the four paths branch out is Jīva or life, and the four paths symbolise the four conditions of life. But as a Siddha is free from all these, the end of each life is turned to show that the four states are closed for him (*Dictionary of Hindu Architecture*, pp. 724-35). Specimens of Jain sculptures from Mathura (*Ep. Ind.*, Vol. II, p. 311) contain this symbol.

The Buddhists appear to hold the svastika in the same light as the Jains. In the Nasik Inscription (no. 10) of Ushavadata, the symbol is placed immediately after the word 'Siddham', a juxtaposition which corroborates the Jain interpretation. The svastika appears at the beginning or end or at both ends of an inscription, and it might mean the Brāhmanical 'Svasti' or Jain 'Siddham'. The Buddhist square Pali Inscriptions from Kuda, Karle, Sailawadi, Junar, etc., among the Inscriptions from the Cave Temples of Western India contain svastika at the beginning and end (卐卐卐卐, *Ind. Ant.*, Vol. xv, p. 96).

In modern times it is a favourite ornamental device. It is found in buildings, covering ceilings, cornices, fenders and other iron, silver, gold and wooden works. It is used not only as 'an auspices mark and a symbol for Buddha and Siddha, but also as a sign for the crossing of the arms and as the meeting of the four roads.' It has been translated into a sitting posture. In the *Śilpa-sāstra* it has been elaborately worked out in the town-planning, and village schemes, in designing screens, lattice, joinery work, windows, pavilions, halls, and storeyed mansions, in digging wells, and carving the phallus or the emblem of Śiva (*Dictionary of Hindu Architecture*, p. 732 ff.). The *Mānasastra-Vāstu-sāstra* contain elaborate details of

svastika plan, of villages (Chap. ix, 3, 330; xi, 75-76, 146; xlix, 152; liv, 120; lviii, 12), of joinery work (Chap. xvii, 60), of windows (Chap. xxxiii, 583), of Pavilions (Chap. xxxiv, 552) and of Halls and Storeyed Mansions (Chap. xxv, 3, 80). These references are further elaborated in the general literature. For instance the *Bṛihat-saṃhitā* (Chap. liii, 34 ff.) contains a technical description of a svastika house : "The svastika (house) is auspicious if it have the entrance on the east side, and one continual terrace along the west side, at the end whereof begin two other terraces going from west to east, while between the extremities of the latter lies a fourth terrace" (Chap. liii, 34 and *J. R. A. S.*, Vol. vi, p. 286).

The octagonal buildings of the svastika plan are described in the *Agni-Purāṇa* (Chap. cv, vv 20-21), and the *Garuḍa-Purāṇa* (Chap. xlvii, vv. 21, 23, 31-33):

According to the *Kārikāgama* (xxxv, 89 ff.) the distinguishing features of the svastika house are the six eyes (netra) in right and left, and the four eyes on the two sides and in front. Further details have been elaborated in the *Mānasāra-Vāstu-śāstra* where (Chap. xxxiv, 552) the characteristic features are stated to be the plough-shape and the three faces. This design has been followed in a structure erected at Allahabad near the Bharadwaj Ashrama of which several photographic views, measured drawings and a graphic description are included in the writer's *Hindu Architecture in India and Abroad*. The plough-shaped three-face design will not at the first sight disclose the usual svastika plan, which has various forms. The standard authorities on architecture have developed the plan of the svastika house in three different forms as described in the *Mānasāra*, the *Bṛihat-saṃhitā*, and *Agni-Purāṇa*, and *Garuḍa-Purāṇa*. The structure referred to above is in conformity with the Manasara's rules and satisfies all the essential requirements.

Thus there is some truth in the conclusion of Thomas Wilson (*ibid.*, pp. 951-952) when he says that since 'we find the svastika used on small and comparatively insignificant objects, those in common use such as vases, pots, jugs, implements, tools, household goods and utensils, objects of the toilet, ornaments, etc., and infrequently on statues, altars and the like, the holy or sacred character of the svastika should be given up, and it should still with these exceptions be considered as a charm, amulet, token of good luck or good fortune, or as an ornament or decoration.'

Whichever theory of its origin be accepted—Om, Sun, Fire, or Cross the etymology of the term, svastika, justifies its Indian or Sanskrit origin. And according to its derivative meaning its auspicious significance cannot be denied as long as the Sanskrit civilization and Hindu

culture will survive in this world. In India this classic symbol has taken a *corporeal* body and the Hindus have been building their roads, towns, villages, images, various articles, and houses according to this plan. Thus in India, the place of its origin, it is not merely an auspicious figure but it has been developed into a more tangible sculptural and architectural object.

(*Indian Review*, December, 1940, pp. 754-761.)

**SVASTIKA-KHADGA**—A type of octagonal buildings.

(*Agni-Purāṇa*, Chap. CIV, vv, 20, 21 ; see under PRĀSĀDA.)

**SVASTI-KĀNTA**—A class of six-storeyed buildings.

(*M.*, XXIV, 53 ; see under PRĀSĀDA.)

**SVASTI-BANDHA**—A class of single-storeyed buildings.

(*M.*, XIX, 169 ; see under PRĀSĀDA.)

**SVĀRĀSANA**—The lintel, the top of a door.

‘The Svārāsana of the gateway was made.’

(This inscription is on the top of the door of the Bhimeśvara temple.)

(*Ep. Carnat.*, Vol. x, Goribidnur Taluq, no. 2, Roman text, p. 260, Transl., p. 212 f.,

H

**HAṬṬA**—A market, a market-place, a fair.

(1) Saumya-dvārāṇ saumya-pade kāryā haṭṭās tu vistarāḥ ||

(*Agni-Purāṇa*, Chap. CVI, v. 3.)

(2) Attra haṭṭaḥ mahā-janaś cha sthāpitaḥ—here the market-place and the shopkeeper (*i.e.* big folk) were established.

Vichitra-vīthi-sampūrṇaṇaḥ haṭṭaṇaḥ kṛitvā grīhāni cha—having constructed a market-place full of variegated (various) streets and houses (shops).

(Ghatiyala Inscrip. of Kakkuka, no. 1, v. 6 ; no. 11, v. 3 ; *Ep. Ind.*, Vol. IX, p. 280.)

(3) Nīrānikshepa-haṭṭam ekaṁ narapatinā dattam |

‘A bazar building or ware-house for storing goods to be exported was granted by the king.’—(The Chahamanas of Marwar, no. xxiii, Jalor stone Inscrip. of Śāmantasimhadeva, lines 22, 23, *Ep. Ind.*, Vol. XI, p. 62.)

**HARIKĀ-KARṆA**—A kind of leg for the bedstead.

(*M.*, XLIV, 60.)

**HARITA**—A pavilion with twenty two-pillars.

(*Matsya-Purāṇa*, Chap. CCLXX, v. 13.)

**HARITĀ**—A moulding, an architectural ornament (see under MAṆḌAPA).

A moulding of the column (*M.*, xv, 160, cf. L. 106).

An ornament of the pedestal (*M.*, xxi, 31).

**HARMIKĀ**—The kiosk, the altar-like structure that rises on the summit of the cupola of a stūpa. The Nepalese stūpas ‘decorate the *Harmikā* with painted human eyes, thus suggesting a human figure, in the posture of meditation hidden in the stūpa : the crossed legs in the base, the body up to the shoulders in the hemisphere, the head in the *Harmikā*. It was crowned by one or more umbrellas of stone and served as a receptacle of relics. “The resemblance of the *Harmikā* to a sacrificial altar is perhaps not unintentional, because the Holy one (Buddha), instead of sacrificing other beings, sacrifices himself to the world.” Railing on the top of stūpa, Tee, Burmese Hti ; the lower part is called Gala (neck) and the whole chūḍāmaṇi. The umbrellas grouped over it are chhatravali and the shaft on which they are supported is Yashti. (Foucher, *L’Art Greco-Buddhique*, tome i, p. 97 ; Fergusson, Vol. 1, p. 70, note 2.)

**HARMYA** (*cf.* RĀJA-HARMYA)—An edifice, an upper room, a turret, an apartment, buildings in general, a palace. A rich man’s house. (*Amarakōsha*, see under PRĀSĀDA) including stables, etc. (*R.V.* 1, 166, 4 ; VII, 56, 16 ; IX, 71, 4 ; X, 43, 3).

(1) One of the four divisions of the architectural objects :

Dharā harmyādi-yānaṁ cha paryānkādi-chatur-vidham ।

(*M.*, III, 3.)

Buildings in general including prāsāda (big buildings), maṇḍapa (pavilion), sabhā (hall), śālā (mansion), prapā (alms-house), (a)raṅga (theatre, play-house with quadrangular court-yards) (*ibid.*, 7-8).

Pūrva-hastena sahyuktam harmyaṁ jātir iti smṛitam ।

(*M.*, XIX, 3.)

A palace :

Bhūpatināṁ cha harmyāpāṁ lakṣhaṇaṁ vakshyate’dhunā ।

(*M.*, XI, 1, etc.)

Harmya-janma-samārabhya sāla-janma-pradeśakam ।

(*M.*, LXX, 37.)

Kuḍya-stambhe gṛiha-stambhe harmya-garbhaṁ vinikshipet ।

(*M.*, XII, 132.)

(2) Prāsāda-harmya-valabhi-liṅga-pratimāsu kuḍya-kupeshu ।

‘In the temple, mansion, roof, phallus, idol, wall and well.’

(*Bṛihat-saṁhitā*, J. R. A. S., N. S., Vol. VI, p. 332.)

(3) Harmyaṁ prāsāda-maṇḍitam—the edifice furnished with a temple.

(*Vāyu-Purāṇa*, part 1, Chap. XXXIX, v. 57.)

(4) Prabhūta-śikharopetaṁ harmyaṁ nāma prakṛtitam—that is named *harmya* (edifice) which is furnished with a large tower or dome (śikhara).

(*Kāmikāgama*, I, 89.)

A class of buildings *d.*, xxxv, 39, 40 ; see under MĀLIKĀ.

(5) *Rāmāyaṇa* (II, 3, 32 ; IV, 33, 5) :

Harmya-prāsāda-saṁyukta-toraṇāṇi |

Mahatīm guhām . . . harmya-prāsāda-sambādham |

See also II, 51, 21 ; II, 91, 32 ; III, 55, 7 ; IV, 33, 5 ; V, 15, 3, 19 ; VI, 75, 26, etc.

(6) *Mahābhārata* (Cock) :

I. 3, 133 ; Nāga-lokam. . . aneka-vidha-prāsāda-harmya-valabhī-niryūha-śata-saṁkulam |

III. 207, 7 ; Harmya-prākāra-śobhanām . . . nagarim |

See also I, 3, 33 ; xv, 16, 1 ; v, 118, 19, etc.

(7) *Vikramorvasī* (Cock), p. 38 : Maṇihamma-alam (maṇi-harmya-talam.)

(8) *Mṛichhakaṭīka* (*ibid.*), pp. 47, 158 :

Jirṇaṁ harmyam ; harmyasthāḥ striyaḥ |

(9) *Raghuvamśa*, VI, 47, etc. :

Harmyāgra-saṁrūḍha-triṇāṁkureshu . . . tripu-mandireshu |

(10) *Jātakamālā* (VI, ed. Kern, p. 80, l. 20) :

Vidyud-iva ghana-śikharaṁ harmya-talam avabhāsanti vyatish-thata |

(11) *Kathā-sarit-sāgara* (Cock) ; 14, 19 :

Harmyāgra-saṁsthāḥ . . . paura-nāryaḥ |

(12) Vapra-gopuramayair-ava-harmaiḥ |

'By erecting new buildings adorned with a wall and a gate-tower.'

(Mangalagiri Pillar Inscrip., v. 29, *Ep. Ind.*, Vol. VI, pp. 121, 131.)

(13) Navina-ratnojvala-harmya-śṛiṅgam—'the top of the royal palace, the scene of the first act.'—(Dhar Prāśasti of Arjunavarman, v. 8, *Ep. Ind.*, Vol. VII, pp. 103, 99.)

(14) Madana-dahana-harmyaṁ kārayāmāsa tuṅgam sa guṇa-gaṇa-nidhāna-śṛiṁdrarājābhidhānaḥ |

'Then that store of all virtues, the illustrious Indrarāja, ordered to be built this lofty temple of the destroyer of Cupid (Śiva.).'—(An Inscrip. of Govinda III, v. 17 ; *Ind. Ant.*, Vol. VII, pp. 41, 42.)

(15) Gommaṭa-pura-bhūṣaṇam idu |

Gommaṭam āyat ene samasta-parikara-sahitam |

Sammadadim Hulla chāmū |

Paṁ māḍisidarṁ Jinottamālayaman idam ||



Parisūtraṁ nritya-gehaṁ pravipuḷa-vīḷasat-paksha-deśastha-śaiḷa-  
sthira-Jaināvāsa-yugmaṁ vividha-suvidha-patrollasat bhāva-  
rūpotkara-rāja-dvāra harmmyaṁ beras atūḷa-chatur-vvīmśa-  
tīrttheśa-gehaṇa |

Paripūrṇhaṁ puṇya-puñja-pratimam esudud iyandadiṁ Huḷḷa-  
nindam |

*Abstract* :—‘ He also built an abode (or temple) for the Tirthaṅkaras  
in this chief Tīrtha of Beḷḷuḷa. And he built a large Jina temple, which,  
like Gommaṭa, was an ornament to Gommaṭapura. Together with its  
cloisters, a dancing hall, a Jina house of stone on either side, a palace with  
royal gates adorned with all manner of carving, and an abode for the 24  
Tirthaṅkaras.’

(*Ep. Carnat.*, Vol. II, no. 137A., Roman text,  
p. 104, lines 21-28 ; Transl., p. 182, line 16f.)

HARMYA-KĀNTA—A class of seven-storeyed buildings.

(*M.*, xxv, 29 ; see under PRĀSĀDA.)

HARMYA-GARBHA—A top-room built at the topmost part of a  
building, a dining hall.

Hammiya-gabbho ti kuṭāgara-gabbho madaṇuchchhādana-gabbha vā.  
(Buddha-ghoṣha, *Chullavaḅya*, vi, 3, 3.)

Compare the translation by Oldenberg and Rhys Davids.

HARMYA-TALA—The flat roof of a house.

Chandṛāmsu-harmya-tala-chandana-tāla-vṛinta-hāropabhoga-rahite  
hima-dagdha-padme |

‘ Which (on account of the cold) is destitute of the enjoyment of the beams  
of the moon, and (sitting in the open air on) the flat roofs of houses and,  
sandalwood perfumes, and palm-leaf-fans, and necklaces.’

(Mandasor stone Inscrip. of Kūmaragupta, lines 17-18,  
*C. I. I.*, Vol. III, F. G. I., no. 18, pp. 83, 87.)

HASTA (see ANḠULA)—A cubit, a measure generally equal to 24  
aṅgulas or 18 inches.

(1) Chatyāri-vimśatis chaiva hāstaḥ syād aṅgulānāṁ tu |

(*Brahmāṇḍa-Purāṇa*, part I, second anuśaṅga-  
pāda, Chap. vii, v. 99.)

(2) Vāstu-śāraṇi (ed. Matri Prasada Pande, Benares) quotes the follow-  
ing without giving reference—Viśvakarmokta-hasta-pramāṇam :

Anāmikāntaṁ hastaḥ syād ūrdhva-vāhau savamśakāḥ |

Kanishḥhikā-madhyamā-pramāṇenaiva kārayet ||

Svāmi-hasta-pramāṇena jyeshḥḥtha-patnī-kareṇa cha |

Jyeshḥḥtha-putra-kareṇāpi karma-kāra-kareṇa cha ||

'According to this passage, the cubit is the measure of distance from the end of the forearm (? elbow) to the tip of the ring-finger, the little finger or the middle finger; and this cubit may be determined in accordance with the measure of the arm of the master of the house, his eldest wife, his eldest son, or of the architect who is employed to build the house.'

(3) Dvādaśa-hasta-pramāṇa-griha-niveśanam |

(Barmani Inscrip. of Vijayaditya, lines 22-23, *Ep. Ind.*, Vol. III, p. 219.)

(4) Pārameśvarīya-hasta—the royal yards.'

(Second Inscrip. of Villabhāṭṭasvāmin temple at Gwalior, line 4, *Ep. Ind.*, Vol. I, p. 159; see also p. 155.)

(5) Āyāmato hasta-śataṁ samagraṁ vistārataḥ shashtīr athāpi chāsh-  
tau ||

Utsadhato'nyat purushāṇi sapta . . . hasta-śata-dvayasya ||

(Built an embankment) a hundred cubits in all in length, and sixty and eight in breadth, and seven men's height in elevation . . . of two hundred cubits.'

(Junagadh Rock Inscrip. of Skandgupta, lines 20-21. *C. I. I.*, Vol. III., F. G. I., no. 14, pp. 61, 64.)

HASTI-NAKHA—The elephant's nail, a turret.

(*Kauṭīliya-Artha-śāstra*, see under GRIHA-VINYĀSA.)

HASTI-PARIGHA (see PARIGHA)—A beam to shut the door against elephants.

(*Kauṭīliya-Artha-śāstra*, see under GRIHA-VINYĀSA.)

HASTI-PRISHṬHA (cf. GAJA)—A class of single-storeyed buildings, a part of a building.

(*M.*, XIX, 171, see under PRĀSĀDA.)

A part of a building (*Kārikāgama*, L. 92, see under VIMĀNA).

The present structure (of the temple of Paramēśvara, where from the five Van inscriptions at Gudimallam are copied) is not after the common model of the period to which it belongs: the Vimāna has the so-called gaja-prishṭhākṛiti shape: but a close study of the plan and sections . . . warrant the conclusion that the architect had distinctly in view the līnga.'

The gaja-prishṭhākṛiti-vimāna is found only in Śaiva temples, e.g., the Dharmēśvara temple at Maṇimaṅgalam, the Śaiva temples at Sumaṅgalam, Peṇṇagaram, Bhāradvājāsrama near Arcot, Tiruppulivanam, Konnūr near Madras, Vaḍa Tirumullaivāyil, etc. etc.'

(*Ind. Ant.*, Vol. XI, p. 104, note 2.)

See the plan and sections of the Paramēśvara temple at Gudimallam (*Ibid.*, plate between pp. 104, 105).

See the *Pallava Antiquities* (Vol. II, pp. 19-20, plate III, the Pallava temple at Tiruttani; plate I, the Virāṭṭameśvara temple at Tiruttani and Sahadeva Ratha at Mahābali-puram).

See Ferguson, *Hist. of Ind. and East. Arch.*, Vol. 1, p. 127 (Fig. 51, elevation of Chezrala Chaity temple), p. 336 (Fig. 192, plan of Sahadeva's Ratha), p. 337 (Fig. 193, view of the same Ratha).

**HASTI-HASTA**—The trunk of an elephant, employed as an architectural member generally of the stair-cases.

Dvāra-mukha-sopānaṁ hasti-hastena bhūṣhitam !

(*M.*, XIX, 211.)

Sopāna-pārsvayor deśe hasti-hasta-vibhūṣhitam !

(*M.*, XXX, 155, cf. also XVIII, 209.)

**HAMSA**—A type of building which is shaped like the swan, a class of oval buildings.

(1) *Bṛihat-saṁhitā* (Chap. LVI, 26, *J. R. A. S.*, N. S., Vol. v, p. 319, see under PRĀSĀDA).

(2) *Matsya-Purāṇa* (Chap. CCLXIX, vv. 30, 51, see under PRĀSĀDA).

(3) *Bhaviṣhya-Purāṇa* (Chap. CXXX, vv. 33, see under PRĀSĀDA).

A class of oval buildings :

(4) *Agni-Purāṇa* (Chap. CIV, vv. 19-20, see under PRĀSĀDA).

(5) *Garuḍa-Purāṇa* (Chap. XLVII, vv. 29-30, see under PRĀSĀDA).

(6) The vehicle (riding animal) of Brahmā.

(*M.*, LX, 1, 4; the sculptural description of its image, *ibid.*, 5-46.)

—A chain, a chain of 108 strings of pearls worn round the neck (*Bṛihat-saṁhitā*, LXXXII, 32), an architectural ornament employed below the neck of the column, bead, astraga<sup>1</sup> or baguette (see Gwilt, *Encycl.*, Fig. 873).

**HĀRA**

**HĀRĀ**

**HĀRIKA(-Ā)**

(1) A moulding (bead) of the column :

Tat-(padma)-tungārdham tu hārikam !

(*M.*, xv, 58.)

Hārā-śrāntā-pañjarāḍhyaṁ . . . (vimānam)!

(*M.*, XIX, 194, see also xx, 56, 112.)

Adhiṣṭhānain cha pādām cha prastaram cha tri-varṅikam !

Śālā-kūṭam cha hāram cha yuktyā tatraiva yojayet !

(*M.*, XXI, 73-74.)

Kūṭnām eka-bhāgena śesham hāram sapañjaram !

(*Ibid.*, 86.)

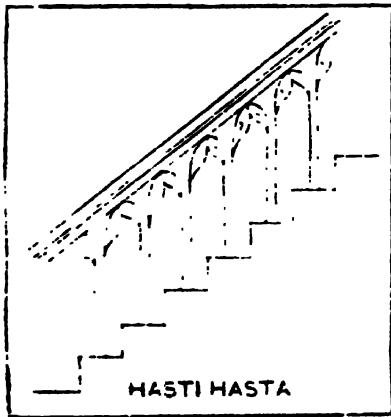
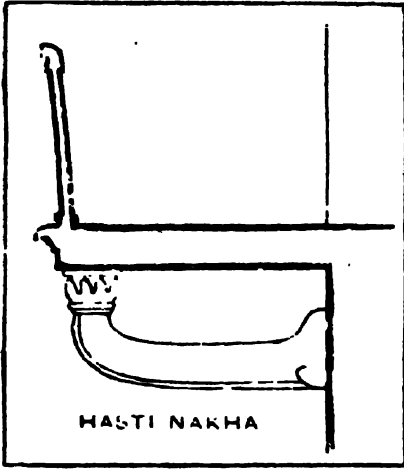
Hāram sapañjaram !

(*M.*, XXI, 58.)

Chatush-koṇe chatush-kūṭam koṣṭhe hārādir aṣṭadhā !

Anu-śālā tri-bhāgā vā hārāntara(m)-dvi-bhāgikam !

(*M.*, XXVI, 11, 23.)





In connexion with the gopura or gatehouse :

Hārasya madhya-deśe tu anu-śālā-viśālakam ।

Tat-pārśva-dva(ya)yo(r) hāraṁ nāsikā-pañjarānvitam ।

(*M.*, xxxiii, 449-450.)

Ekāṁśaṁ karṇa-kūṭaṁ cha hāra-tāraika-bhāgikam ।

(*M.*, xxxiii, 416 ; see also 431.)

Kūṭe cha bhadrāyor madhye hārāṁśaṁ madhyamena tu ।

(*M.*, xxxv, 343.)

A chain :

Hāropagrīva-kecyūra-kaṭakaiś cha supūṣitam ।

(*M.*, I, 14.)

(2) Alindāndhārikāndhara-hārā bhāgena kalpitāḥ ॥

Bahir āndhārikāndhara-hāra(-ā) bhāgena viśṭritāḥ ॥

Hāra-pramāṇaṁ bāhye tu rachanārthaṁ prakalpayet ।

Bhittī-antasthaṁ pramāṇaṁ syād bhitti-bāhye tv-abāhyataḥ ॥

Āndhārāndhāri-hāroktō (=hāra-yukto) khaṇḍa-harṁya-viśe-shitam:

(vimānam) ॥

(*Kāmikāgama*, I, 74, 76, 77, 93.)

(3) Pearl-strings (Deopara Inscript. of Vijayasena, v. II, *Ep. Ind.*, Vol. I, pp. 308, 313).

**HIKKĀ-SŪTRA**—The line over the glottis or along the larynx, upper part of the windpipe. (*See* under TĀLAMĀNA.)

**HIMA-KĀNTA** (*cf.* HIMAVAT)—A class of seven-storeyed buildings.

(*M.*, xxv, 31, *see* under PRĀSĀDA.)

**HIMAJA**—A class of pavilions.

(*M.*, xxxiv, 152, *see* under MAṆḌAPA.)

**HIMAVAT**—A class of buildings, with sixteen pañjaras (compartments), eight śālās (halls), and eight kūṭas (towers).

Himavān iti vikhyāto yukta-śoḍaśa-pañjaraḥ ।

Aṣṭa-śālāśṣṭa-kūṭas tu prāsādo lakṣaṇānvitāḥ ॥

(*Suprabhedāgama*, xxxi, 44.)

**HIRANYA-NĀBHA**—A type of edifice.

Uttara-śālā-hinaṁ Hiranya-nābhaṁ tri-śālakam dhanyam—'An edifice with three halls, wanting as it does a northern hall, is styled Hiranya-nābha, and insures luck.'

(*Bṛihat-saṁhitā*, LIII, 37, *J. R. A. S.*, N. S., Vol. VI, p. 286.)

**HEMA-KŪṬA**—A class of pavilions.

(*M.*, xxxiv, 155, *see* under MAṆḌAPA.)

**HOMA**—An offering, a crowning moulding of the cages for domesticated animals.

Mṛiga-nābhi-vidālasya pañjarasya

Homāt prastarāntarṁ vā mastakāntarṁ-śikhāntakam ।

(*M.*, xxxiv, 17.)



## APPENDIX I

### A SKETCH OF SANSKRIT TREATISES ON ARCHITECTURE <sup>1</sup>.

#### A

AGNI-PURĀNA—See under PURĀNAS.

AṅKA-ŚĀSTRA—On architecture.

(Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, Vol. 1, no. 2499, p. 228.)

APARĀJITA-PRICHCHHĀ—by Bhuvana-deva, 'quoted by Hemādri in the *Parīśeṣha-khaṇḍa*, 2, 660-662, 819.'

(Aufrecht, *Catalogus Catalogorum*, part II, p. 4.)

APARĀJITA-VĀSTU-ŚĀSTRA—attributed to Viśvakarman, in possession of Maṇi Śaṅkara Bhaṭṭa, Surat.

(*Catalogue of Sanskrit MSS. contained in Private Libraries in Gujarat, Kathiavad, Kachchh Sindh, and Khandesh*, 1872, p. 276, no. 1.)

ABHILĀSHITĀRTHA-CHINTĀMAṆI—by Malla Someśvara, on architecture.

(Taylor's *Catalogue Raisonné*, I. 478.)

ARTHA-ŚĀSTRA—(KAUṬILĪYA)—ed. R. Shamaṅ Sāstri, B.A., Mysore, 1919.

Chapters :

22. Janapada-niveśa.
23. Bhūmichchhidra-vidhāna.
24. Durga-vidhāna.
25. Durga-niveśa.
65. Vāstuka, Gṛiha-vāstuka.
66. Vāstu-vikraya ;  
Simā-vivāda ;  
Maryādā-sthāpana ;  
Bādha-bādhika.
67. Vastuke vivite kshetra-patha-himsā.

<sup>1</sup> Compare, Vārta—The Ancient Hindu Economic by Narendra Nath Law M.A., B.L., PH.D. (*Ind Ant.*, vol. XLV, p. 256).



AMŚUMAT-(KĀŚYAPIYA)—On architecture and sculpture.

(Taylor's *Catalogue Raisonné*, I. 314.)

AMŚUMAD-BHEDĀGAMA—See under ĀGAMAS.

AMŚUMĀNA-KALPA—On architecture.

(Aufrecht, *ibid.*, part I, p. 1.)

## Ā

ĀGAMAS—Of the 28 Mahā-āgamas<sup>1</sup>, the following have special reference to architecture and cognate arts :

I. *Amśumad-bhedāgama* (paṭala or chapter) :

28. Uttama-daśa-tāla-vidhi.

(There is another Amśumad-bheda by Kāśyapa, account of which is given elsewhere.)

II. *Kāmikāgama* (paṭala or chapters):

11. Bhū-parīkshā-vidhi.

12. Praveśa-bali-vidhi.

13. Bhū-parigraha-vidhi.

14. Bhū-karshaṇa-vidhi.

15. Śaṅku-sthāpana-vidhi.

16. Mānopakarāṇa-vidhi.

17. Pāda-vinyāsa.

18. Sūtra-nirmāṇa.

19. Vāstu-deva-bali.

20. Grāmādi-lakshaṇa.

21. Vistārāyāma-lakṣkaṇa.

22. Āyādi-lakshaṇa.

1. Kāmikāgama.

2. Yogajāgama.

3. Chintyāgama.

4. Kāraṇāgama.

5. Ajitāgama.

6. Dīptāgama.

7. Sūkṣhmāgama.

8. Sahasrāgama.

9. Amśumānāgama.

10. Suprabhedāgama.

11. Vijayāgama.

12. Nīsvāsāgama.

14. Anilāgama.

15. Virāgama.

16. Rauravāgama.

17. Makuṭāgama.

18. Vimalāgama.

19. Chandra-jñānāgama.

20. Bimbāgama.

21. Prodgītāgama.

22. Lalitāgama.

23. Siddhāgama, also called Vaikhā-

nasāgama.

24. Śāntvanāgama.

25. Sarvoktāgama.

26. Parmeśvarāgama.

27. Kirāṇāgama.

28. Vātulāgama.

<sup>1</sup>(See *Sūkṣhmāgama*, British Museum, 14033, aa, 26.)

24. Daṇḍika-vidhi (dealing with doors and gateways)
25. Vithi-dvārādi-māna.
26. Grāmādi-devatā-sthāpana,
28. Grāmādi-vinyāsa.
29. Brahma-deva-padāti.
30. Grāmādi-aṅga-sthāna-nirmāṇa.
31. Garbha-nyāsa.
32. Bāla-sthāpana-vidhi.
33. Grāma-griha-vinyāsa.
34. Vāstu-śānti-vidhi.
35. Śālā-lakṣhaṇa-vidhi.
36. Viśeṣha-lakṣhaṇa-vidhi.
37. Dvi-śālā-lakṣhaṇa-vidhi.
38. Chatuḥ-śālā-lakṣhaṇa-vidhi.
40. Varta(?dha)māna-śālā-lakṣhaṇa.
41. Nandyāvarta-vidhi.
42. Svastika-vidhi.
43. Paksha-śālādi-vidhi.
44. (H)asti-śālā-vidhi.
45. Mālikā-lakṣhaṇa vidhi.
46. Lāṅgala-mālikā-vidhi.
47. Maulika-mālikā-vidhi.
48. Padma-mālikā-vidhi.
49. Nāgarādi-vibhedā.
50. Bhūmi-lakṣa-vidhi.
51. Ādyeṣṭakā-vidhāna-vidhi.
52. Upapīṭha-vidhi.
53. Pāda-māna-vidhi
54. Prastāra-vidhi.
55. Prāsāda-bhūṣhaṇa-vidhi.
56. Kaṇṭha-lakṣhaṇa-vidhi.
57. Śikhara-lakṣhaṇa-vidhi.
58. Stūpika-lakṣhaṇa-vidhi.
59. Nālādi-sthāpana-vidhi.
60. Eka-bhūmyādi-vidhi.
61. Mūrdhni-sthāpana-vidhi.
62. Liṅga-lakṣhaṇa-vidhi.
63. Aṅkurārpaṇa-vidhi.
64. Liṅga-pratishṭhā-vidhi.
65. Pratimā-lakṣhaṇa-vidhi.
67. Devatā-sthāpana-vidhi.

68. Pratimā-pratishṭhā-vidhi.
69. Vimāna-sthāpana-vidhi.
70. Maṇḍapa-sthāpana-vidhi.
71. Prākāra-lakṣaṇa-vidhi.
72. Parivāra-sthāpana-vidhi.

It should be noticed that out of 75 chapters of the *Kāmikāgama*, more than 60 deal with architecture and sculpture. This Āgama is in fact another *Vāstu-sāstra* under a different name.

III. *Kāraṇāgama* :

Part I (paṭala or chapters) :

3. Vāstu-vinyāsa.
4. Ādyeṣṭaka-vidhi.
5. Adhiṣṭhāna-vidhi.
6. Garbha-nyāsa-vidhi.
7. Prāsāda-lakṣaṇa-vidhi.
8. Prākāra-lakṣaṇa-vidhi.
9. Liṅga-lakṣaṇa.
10. Mūrdhniṣṭakā-lakṣaṇa.
11. Pratimā-lakṣaṇa.
12. Strī-māna-daśa-tāla-lakṣaṇa.
13. Kanishṭha-daśa-tāla-lakṣaṇa.
14. Nava-tālottama-lakṣaṇa
16. Bali-karma-vidhi.
19. Mṛit-saṅgrahaṇa-vidhi.
20. Aṅkurārpaṇa-vidhi.
41. Mahābhisheka-vidhi.
56. Vāstu-homa-vidhi.
59. Liṅga-sthāpana-vidhi
60. Parivāra-sthāpana-vidhi.
61. Bali-pīṭha-pratishṭhā-vidhi.
62. Ratna-liṅga-sthāpana-vidhi.
66. Parivāra-bali.
70. Vimāna-sthāpana-vidhi.
88. Bhakta-sthāpana-vidhi.
138. Mṛit-saṅgrahaṇa (*cf.* 19).

Part II, chapters :

4. Kīla-parīkṣhā.
5. Gopura-lakṣaṇa.
6. Maṇḍapa-lakṣaṇa.
7. Pīṭha-lakṣaṇa.
8. Śakti-lakṣaṇa.

9. Grāma-śānti-vidhi.
10. Vāstu-śānti-vidhi.
11. Mṛit-saṅgrahaṇa.
12. Aṅkurārpaṇa.
13. Bimba-śuddhi.
14. Kautuka-bandhana.
15. Nayanonmīlana.
18. Bimba-śuddhi (cf. II. 13).
19. Śayanāropana.
21. Śiva-līṅga-sthāpana.
98. Maṭha-pratiśṭhā.

IV. *Vaikhānasāgama* (paṭala or chapters) :

22. Pratimā-lakṣhaṇa.
43. Uttama-daśa-tāla.

V. *Suprabhedāgama* (paṭala or chapters) :

22. Karaṇādhikāra-lakṣhaṇa, deals with Ushṇīṣha (crowns, head-gears), Āsana (chair, seats), Paryāṅka (bedsteads, couches, etc.) Śimhāsana (thrones), Raṅga (court-yards, theatres), Stambha (columns, pillars), etc.
23. Grāmādi-lakṣhaṇa-vidhi.
26. Taruṇālaya-vidhi.
27. Prāsāda-vāstu-vidhi.
28. Ādyeṣṭakā-vidhi.
29. Garbha-nyāsa-vidhi.
30. Aṅguli-lakṣhaṇa-vidhi.
31. Prāsāda-lakṣhaṇa-vidhi.
32. Mūrdhnīṣṭaka-vidhi.
33. Līṅga-lakṣhaṇa.
34. Sakala-lakṣhaṇa-vidhi.
35. Aṅkurārpaṇa-vidhi.
36. Līṅga-pratiśṭhā-vidhi.
37. Sakala(irmage, idol)-pratiśṭhā.
38. Śakti-pratiśṭhā-vidhi.
39. Parivāra-vidhi.
40. Vṛishabha-sthāpana-vidhi.

ĀGASTYA-SAKALĀDHIKĀRA (manuscript)—

(Aufrecht, part I, p. 683, see Taylor, 1, 72.)

Chapters :

1. Māna-saṅgraha.
2. Uttama-daśa-tāla.
3. Madhyama-daśa-tāla.

4. Adhama-daśa-tāla.
5. Pratimā-lakṣhaṇa.
6. Vṛishabha-vāhana-lakṣhaṇa.
7. Naṭeśvara-vidhi.
8. Shoḍaśa-pratimā-lakṣhaṇa.
9. Dāru-saṁgraha.
10. Mṛit-saṁskāra.
11. Varṇa-saṁskāra.

There are three other MSS. in the Government MSS. Library, Madras, attributed to Agastya. *See Catalogue*, Vol. xxii, nos. 13046, 13047, 13058. Nos. 13046, 13047 are incomplete and deal with astrological matters bearing upon architecture. No. 13058 is a portion of a large manuscript (*see* under ŚILPA-SAṂGRAHA) which is an anonymous compilation. The following chapters of it are ascribed to Agastya :

1. Māna-saṁgraha-viśeṣa.
2. Uttama-daśa-tāla.
3. Madhyama-daśa-tāla.
4. Somāskanda-lakṣhaṇa.
5. Chandra-śekhara-lakṣhaṇa.
6. Vṛisha-vāhana-lakṣhaṇa.

It is not quite clear whether the following 7-14 (which are not numbered as such in the compilation) should be attributed to Agastya :

7. Tripurāntaka-lakṣhaṇa.
8. Kalyāṇa-sundara-lakṣhaṇa.
9. Ardha-nārīśvara-lakṣhaṇa.
10. Pāsupata-lakṣhaṇa.
11. Bhikṣhāṭana-lakṣhaṇa.
12. Chaṇḍeśānugraha-lakṣhaṇa.
13. Dakṣhiṇā-mūrti-lakṣhaṇa.
14. Kāla-dahana-lakṣhaṇa.
- 15-18. Apparently missing.
19. Pratimā-lakṣhaṇa.

The following found in another portion of the compilation are indifferently numbered as shown on the right parallel column :

20. (3) Upapīṭha-vidhāna.
21. (9) Śūla-māna-vidhāna.
22. (10) Rajju-bandha-saṁskāra-vidhi.
23. (11) Varṇa-saṁskāra.
24. (21) Akṣhi-mokṣhaṇa.

ĀGĀRA-VINODA—On the construction of houses.

(Aufrecht. *ibid.*, part 1, p. 2.)

ĀYA-TATTVA—by Maṇḍana Sūtradhāra.

(See *Vāstu-śāstra*, by Rājavallabha Maṇḍana.)

ĀYADI-LAKSHAṆA—On architectural and sculptural measurement.

(Aufrecht, part 1, 62.)

ARĀMĀDI-PRATISHṬHĀ-PADDHATI—On the construction of gardens, etc.

(Aufrecht, part 1, p. 53.)

## K

KĀMIKĀGAMA—See under ĀGAMAS.

KARĀṆĀGAMA—See under ĀGAMAS.

KĀŚYAPIYA—(Manuscript), deals with architecture and cognate arts. (Govt. MSS. Library, Madras, *Catalogue of MSS.*, Vol. xxii, p. 8755, f., nos. 13032, 13033. See also Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, Vol. II, p. 395, no. 6336.)

‘This work has attained universal authority amongst all the sculptors of South India up to the present time, and the young pupils are even now taught to learn by heart the verses given in this book regarding the rules of constructions and measurements of images.’<sup>1</sup> Kāśyapa is said to have learnt this science from Śiva (paṭala 1, verses 1–5).

The contents are divided into eighty-three paṭalas which are classified in an overlapping manner into the following headings :

1. Karshaṇa.
2. Prāsāda-vāstu.
3. Vāstu-homa.
4. Prathameshṭaka-vidhi.
5. Upapīṭha-vidhāna.
6. Adhishṭhāna-vidhi.
7. Nāla-lakshaṇa.
8. Stambha-lakshaṇa.
9. Phalāka-lakshaṇa.
10. Vcdika-lakshaṇa.
11. Jālaka-lakshaṇa.
12. Ta(o)raṇa-lakshaṇa.
13. Vṛitta-sphuṭita-lakshaṇa.
14. Stambha-toraṇa-vidhi.

<sup>1</sup> *South Indian Bronzes*, by Gangooli.

15. Kumbha-tala-lakṣhaṇa.
16. Vṛitta-sphuṭita-lakṣhaṇa, *cf.* 13.
17. Dvāra-lakṣhaṇa.
18. Kampa-dvāra-lakṣhaṇa.
19. Prastara-lakṣhaṇa.
20. Gala-vidhāna.
21. Sīkhara-lakṣhaṇa.
22. Nāsikā-lakṣhaṇa.
23. Mānopakarāṇa.
24. Māna-sūtrādi-lakṣhaṇa.
25. Nāgarādi-vidhi.
26. Garbha-nyāsa-vidhi.
27. Eka-tala-vidhāna.
- 28-40. Dvi-trayodaśa-tala-vidhāna.
41. Shoḍaśa-bhūmi-vidhāna.
42. Mūrdhanīśhṭaka-vidhāna.
43. Prākāra-lakṣhaṇa.
44. Maṅṭa(-ḍa)pa-lakṣhaṇa.
45. Gopura-lakṣhaṇa.
46. Sapta-mātṛika-lakṣhaṇa.
47. Vināyaka-lakṣhaṇa.
48. Parivāra-vidhi.
49. Liṅga-lakṣhaṇoddhāra.
50. Uttama-daśa-tāla-puruṣa-māna.
51. Madhyama-daśa-tāla-puruṣa-māna.
52. Uttama-nava-tāla.
53. Madhyama-nava-tāla.
54. Adhama-nava-tāla.
55. Aṣṭa-tāla.
56. Sapta-tāla.
57. Piṭha-lakṣhaṇoddhāra.
58. Sakala-sthāpana-vidhi.
- 59-60. Sukhāsana.
61. Chandra-śekhara-mūrti-lakṣhaṇa.
62. Vṛiṣha-vāhana-mūrti-lakṣhaṇa.
63. Nṛitta-mūrti-lakṣhaṇa.
64. Gaṅgādhara-mūrti-lakṣhaṇa.
65. Tri-pura-mūrti-lakṣhaṇa.
66. Kalyāṇa-sundara-lakṣhaṇa.
67. Ardha-nārīśvara-lakṣhaṇa.
68. Gajaha-mūrti-lakṣhaṇa.

69. Paśupati-mūrti-lakṣhaṇa.
70. Kañkāla-mūrti-lakṣhaṇa.
71. Hary-ardha-hara-lakṣhaṇa.
72. Bhikṣhāṭana-mūrti-lakṣhaṇa.
73. Chaṇḍeśānugraha.
74. Dakṣiṇā-mūrti-lakṣhaṇa.
75. Kālāhā-mūrti-lakṣhaṇa.
76. Liṅgodbhava-lakṣhaṇa.
77. Vṛikṣha-saṁgrahaṇa.
78. Śūla-lakṣhaṇa.
79. Śūla-pāṇi-lakṣhaṇa.
80. Rajju-bandha-lakṣhaṇa.
81. Mṛit-saṁskāra-lakṣhaṇa.
82. Kalka-saṁskāra-lakṣhaṇa.
83. Varṇa-saṁskāra-lakṣhaṇa.
84. Varṇa-lepana-medhya-lakṣhaṇa.
85. Grāmādi-lakṣhaṇa.
86. Grāma-lakṣhaṇa.

**KUPĀDI-JALA-STHĀNA-LAKSHAṆA**—On the construction of wells, etc.

(In possession of the Mahārājā of Travancore; Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, Vol. 1, p. 457.)

**KAUTUKA-LAKSHAṆA**—On architecture.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 258.)

**KRIYĀ-SANĠRAHA-PAÑJIKĀ**—A catalogue of rituals by Kula-datta. It contains among other things instructions for the selection of site for the construction of a Nihāra and also rules for building a dwelling house.

(*The Sanskrit and Buddhist Literature of Nepal*, by Rajendra Lal Mitra, 1882, p. 105.)

**KSHIRĀRṆAVA**—Attributed to Viśvakarman, on architecture etc.

(Aufrecht, *ibid.*, part II, pp. 26, 138.)

**KSHETRA-NIRMĀNA-VIDHI**—On the preparation of ground with a view to construction of buildings thereupon.

(In possession of the Rājā of Cochin; Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, Vol. I, p. 354.)



## G

**GARUḌA-PURĀṆA**—See under PURĀṆAS.

**GĀRGYA-SAMHITĀ**—(MSS. R. 15. 96, in Trinity College, Cambridge; it contains 108 leaves, in oblong folio; Indian paper; Devanāgarī character; copied in 1814). It deals with the following architectural subjects :

Dvāra-nirdeśa | (fol. 51a, chap. 3).

Dvāra-pramāṇa-vidhi | (fol. 57b).

Gārgyāyām vāstu-vidyāyām chatuḥ-śāla-dvi-tri-śālaika-śāla-vidhi | (fol. 58a).

Vāstu-vidyāyām chatur-bhāga-tri-bhāga-prati-bhāga, etc. (fol. 60a).

Dvāra-stambhochchrāya-vidhi. | (fol. 60b).

Vāstu-vidyāyām prathamod'dyāyaḥ | (fol. 67a).

„ „ dviṭīyo'dhyāyaḥ | (fol. 67b).

„ „ dvāra-pramāṇa nirdeśam | (fol. 68a).

Gṛiha-praveśam | (fol. 68b).

**GṚIHA-NIRŪPAṆA-SAMKṢHEPA**—A summary-work on house-building.

(Aufrecht, *ibid.*, part 1, p. 157.)

**GṚIHA-NIRMĀṆA-VIDHI**—On rules for the erection of houses, temples, and other edifices.

(Wilson's *Mackenzie Collection*, p. 304.)

**GṚIHA-PĪṬHIKĀ**—On the construction of houses.

(Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, Vol. 1, p. 545.)

**GṚIHA-VĀSTU-PRADĪPA**—(Lucknow, 1901)—Contains 87 pages deals mostly with astronomical and ritualistic matters in connection with the building of houses.

**GṚIHĀRAMBHA**—by Śrīpati.

(*Cf. Vāstu-sāvani.*)

**GOPURA-VIMĀNĀDI-LAKṢHAṆA**—On gate-houses and temples, etc.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 259, no. 4009.)

**GRĀMA-NIRṆĀYA**—by Nārāyaṇa.

(*Cf. Vāstu-sāvani.*)

## GH

GHATṬOTSARGA-SŪCHANIKĀ—On the erection of steps on the bank of a river.

(Aufrecht; *ibid.*, part III, p. 37.)

## CH

CHAKRA-ŚĀSTRA—On architecture and cognate arts.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 200.)

CHITRA-KARMA-ŚILPA-ŚĀSTRA—On painting.

(Aufrecht, *ibid.*, part I, p. 187.)

CHITRA-PAṬA—On painting.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. I, p. 440.)

CHITRA-LAKSHANA—(ed. Laufer)—Treats largely with the sculptural measurement of images and painting; translated into German from Tibetan, the original Sanskrit version is apparently missing.

CHITRA-SŪTRA—On painting (mentioned in Kaṭṭani-mata, 22).

(Aufrecht, *ibid.*, part I, p. 187.)

## J

JAYA-MĀDHAVA-MĀNASOLLĀSA—Attributed to one Jayasimhadeva—On architecture.

(Aufrecht, *ibid.*, part I, p. 201.)

JĀLĀRGALA—Attributed to Varāhamihira—On door-bars and latticed windows.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, no. 3146, p. 217.)

JĀLĀRGALA-YANTRA—On the architectural instruments and machines.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, no. 3147, p. 217.)

JÑĀNA-RATNA-KOSHA—Attributed to Viśvakarman—On architecture.

(Aufrecht, part I, p. 210, in possession of Acharya Lal Vaidya, Ahmedabad, *Catalogue of Sanskrit MSS. contained in the Private Libraries of Gujarat*, etc. 1872, p. 276.)

## T

**TACHCHU-ŚĀSTRA**—Same as Manushyālaya-chandrikā (*see* below).

**TĀRĀ-LAKSHAṆA**—On sculpture (image of the goddess Tārā).  
(Aufrecht, part 1, p. 229.)

## D

**DAŚA-TĀLA-NYAGRODHA-PARIMAṆḌALA-BUDDHA-PRA-TIMA-LAKSHAṆA**—On the ten-tāla measure of Buddha images, exists in Tibetan translation ; the original Sanskrit version is apparently missing.

**DAŚĀ-PRAKĀRA**—Attributed to Vasishṭha—On architectural defects.

(*See Vāstu-sāraṇi*, by Maṭṛi-prasāda-Pande, Benares, 1909.)

**DIK-SĀDHANA**—Attributed to Bhāskara—On architecture.

(*See Vāstu-sāraṇi*.)

**DIRGHA-VISTĀRA-PRAKĀRA**—Attributed to Nārada—On architectural measurement.

(*See Vāstu-sāraṇi*.)

**DEVATĀ-ŚILPA**—On sculpture, dealing specially with the images of deities.

(A classified catalogue of Sanskrit works in the Sarasvatī Bhāṇḍāram Library of His Highness the Mahārājā of Mysore, class xix, no. 535.)

**DEVĀLAYA-LAKSHAṆA**—On the construction of temples.

(Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, Vol. 1, p. 470.)

**DVĀRA-LAKSHAṆA-PAṬĀLA**—On the construction of doors.

(*Ibid.*, no. 6003, p. 470.)

## DH

**DHRUVĀDI-SHOḌAŚA-GEHĀNI**—Attributed to Gaṇapati—On the architectural arrangement of buildings.

(*See Vāstu-sāraṇi*.)

## N

NĀRADA-PURĀṆA—*See* under PURĀṆAS.

NĀRADA-SAMHITĀ—deals with the following subjects :

- (1) Sura-pratiṣṭhā (20 verses).
- (2) Vāstu-vidhāna (62 verses, describing briefly Bhūparīkṣa, Dvāra-sthāna, Śaṅku-sthāpana, Pada-nyāsa, and Gṛiha-nyāsa).
- (3) Vāstu-lakṣhaṇa—describes ceremonies of Gṛiha-praveśa.

NĀVĀ-ŚĀSTRA—‘On ship-building and navigation.’ But the work is chiefly astrological. Some directions are, however, given respecting the materials and dimensions of vessels.

(Taylor's *Catalogue Raisonné*, Vol. III, p. 6.)

In Taylor's *Catalogue Raisonné*, there is mentioned another Manuscript of which the title is lost. It is ‘on the art of constructing forts, houses, fanees, of settling a village ; navigation and variety of other similar things enumerated as taught in 36 works, the names of which are given.’ (*Ibid.*, Vol. III, p. 350.)

## P

PAKSHI-MANUSHYĀLAYA-LAKSHAṆA—On the construction of human dwellings and aviaries.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. I, p. 471.)

PANCHA-RĀTRA-(PRA)DĪPIKĀ—(also called Mantra-dīpikā)—It professes to form a part of the Padma-tantra of the Nārada-Pañcha-rātra. It has a Telugu commentary by Peḍḍanāchārya. It deals with images and consists of the following five chapters :

1. Śilā-saṁgraha-lakṣhaṇa.
2. Dāru-saṁgrahaṇa.
3. Pratimā-lakṣhaṇa.
4. . . . nāma-tṛitīyo'dhyāya.
5. Pratimā-saṁgrāhe jalādhivāsana-asṭamo'dhyāya.

(*See Egg. MSS.*, 3150, 2579, II, *Mackenzie Collection*.)

PIṆḌA-PRAKĀRA—Attributed to Gopirāja—On architectural subjects.

(*See Vāstu-sūtrāṇi*.)

PĪṬHA-LAKSHAṆA—On pedestals.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. I, p. 472.)

PURĀṆAS—(Bombay editions)—Of the 18 or 19 Mahā-purāṇas,<sup>1</sup> the following have special reference to Architecture and Sculpture :

I. *Agni-Purāṇa* :

Chapters :

42. Prāsāda-lakṣhaṇa-kathana.
43. Prāsāda-devatā-sthāpana.
44. Vāsudevādi-pratimā-lakṣhaṇa-vidhi.
45. Piṇḍikā-lakṣhaṇa.
46. Śālagrāmādi-mūrti-lakṣhaṇa-kathana.
49. Matsyādi-daśāvatāra-kathana.
50. Devī-pratimā-lakṣhaṇa-kathana.
51. Sūryādi-pratimā-lakṣhaṇa.
52. Devī-pratimā-lakṣhaṇa (*cf.* 50).
53. Liṅga-lakṣhaṇa.
54. Liṅga-mānādi-kathana.
55. Piṇḍikā-lakṣhaṇa-kathana (*cf.* 45).
60. Vāsudeva-pratishṭhā-vidhi (*cf.* 44).
62. Lakṣmi-pratishṭhā-vidhi.
104. Prāsāda-lakṣhaṇa (*cf.* 42).
105. Gṛihādi-vāstu-kathana
106. Nāgarādi-vāstu.

II. *Garuḍa-Purāṇa* :

Chapters :

45. Śālagrāma-mūrti-lakṣhaṇa.
46. Prāsāda-ārāma-durga-devālaya-maṭhādi-vāstu-māna-lakṣhaṇa-nirūpaṇa.
47. Prāsāda-liṅga-maṇḍapādi-śubhāśubha-lakṣhaṇa-nirūpaṇa.
48. Devānām pratishṭhā-vidhi.

III. *Nārada-Purāṇa* :

Part I, chapter :

13. Devatāyana-vāpi-kūpa-taḍgādi-nirmāṇa.

IV. *Brahmāṇḍa-Purāṇa* :

Chapter :

7. *Gṛihādi-nirmāṇa*.

- |                |                                  |
|----------------|----------------------------------|
| 1. Brahma.     | 10. Brahma-vaivarta.             |
| 2. Padma.      | 11. Liṅga.                       |
| 3. Viṣṇu.      | 12. Varāha.                      |
| 4. Śiva.       | 13. Skanda (also called Kumāra). |
| 5. Bṛiḡavata.  | 14. Vāmana.                      |
| 6. Nārada.     | 15. Matsya.                      |
| 7. Mārkaṇḍeya. | 16. Garuḍa.                      |
| 8. Agni.       | 17. Brahmāṇḍa.                   |
| 9. Bhaviṣya.   | 18. Vāyu.                        |

19. Kūrma.

V. *Bhaviṣya-Purāṇa* :

Chapters :

12. Madhya-parvaṇi, Pratidevatā-pratimā-lakṣhaṇa-varṇana.
130. Brahma-parvaṇi, Prāsāda-lakṣhaṇa-varṇana.
131. Mūṛti-sthāna, deals with the materials, etc., of which images are made.
132. Pratimā-māna, deals with the measurement of images.

VI. *Matsya-Purāṇa* :

Chapters :

252. Deals with the introduction of eighteen ancient architects—Bṛiḡu, Atri, Vasistha, Viśvakarmā, Maya, Nārada, Nagnajit, Viśālāksha, Purandara, Brahma, Kumāra, Nandiśa, Śaunaka, Garga, Vāsudeva, Aniruddha, Śukra, and Bṛihaspati.
255. Stambha-māna-vinirṇaya.
257. Dārvāharaṇa.
258. Nava-tāla-māna.
262. Pīṭhikā-lakṣhaṇa.
263. Liṅga-lakṣhaṇa.
269. Prāsāda-varṇana.
270. Maṇḍapa-lakṣhaṇa.

VII. *Liṅga-Purāṇa* :

Part II, chapter :

48. Yāga-kuṇḍa-vinyāsa-kathana-pūrvakaṁ sarvāsāṁ devatānāṁ sthāpana-vidhi-nirūpaṇam, Prāsādārchāni-nirūpaṇam.

VIII. *Vāyu-Purāṇa* :

Part I, Chapter :

39. Śaila-sthita-vividha-devālaya-kīrtana.

IX. *Skanda-Purāṇa* :

Chapters :

24. Māheśvara-khaṇḍe-prathame—Himālayena sva-sutāyā vivāhārthaṁ Gargāchārya-purohitaṁ puraskṛitya Viśvakarma-dvārā pūrva-maṇḍapa-nirmāṇādi-varṇanam, Nāradād Viśvakarma-kṛita-vivāha-maṇḍapaṁ chāturyeṇa sarva-deva-pratikṛiti-chitra-vinyāsaṁ śrutvā sarveshāṁ devānāṁ śānkā-prāptih.

Māheśvara-khānde dvitīye—svayaṁ Viśvakarma-dvāra-nirmāpite Mahīnagare sthāpana-varṇana.

25. Vaishṇava-khaṇḍe dvitīye—Nārada-likhita-sāhitya-sambhāva-saṁgraha-patraṁ śrutvā Indradumnājūyā Padmanidhinā svarṇa-śālā-nirmāṇam, Nārada-jūyā Viśvakarmaṇā syandana-traya-nirmāṇam, tasya rathasya Nārada-kareṇa sthāpanam, tat-prasaṁgena ratha-sthāpana-prakāra-vidhi-varṇanam.

**PRATIMĀ-DRAVYĀDI  
VACHANA**

**AN ENCYCLOPAEDIA OF**

**PRATIMĀ-DRAVYĀDI-VACHANA**—On the materials of which idols are made.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. I, p. 490.)

**PRATIMĀ-MĀNA-LAKSHAṆA**—On the tāla-measures of images, exists in Tibetan Translation; Sylvian Levi reports that he has traced its original Sanskrit version in the Palace Library of Tibet.

**PRATISHṬHĀ-TATTVA**—Also called **MAYA-SAMGRAHA**—On architecture.

(Aufrecht, *ibid.*, part III, p. 74.)

**PRATISHṬHĀ-TANTRA**—On architecture in a dialogue form between Śiva and Pārvatī.

(Aufrecht, *ibid.*, part III, p. 74.)

**PRĀSĀDA-KALPA**—On the construction of buildings.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 522.)

**PRĀSĀDA-KĪRTANA**—On architecture.

(Author not known; in possession of Gopal Rao, Mālegamva, *Catalogue of Sanskrit MSS. in Private Libraries of Gujarat, etc.*, 1872, p. 276.)

**PRĀSĀDA-DĪPIKĀ**—On architecture, quoted in Madana-Pārijāta  
(Aufrecht, *ibid.*, part I, p. 364.)

**PRĀSĀDA-MANḌANA-VĀSTU-ŚĀSTRA**—Attributed to Sūtra-dhāra Maṇḍana—(*Egg. MSS.* 3147, 2253). It is written in Sanskrit, but is largely mixed with Bhāshā forms. It contains the following eight chapters :

1. Mītra-kalaśa.
2. Jagati-dṛishī-dosho āyatanādhikāra.
3. Bhitti-pīṭha-maṇḍovāra-garbha-gṛihaudumbara-pramāṇa.
4. Pramāṇa-dṛishṭi-pada-sthāna-śikhara-kalaśa-lakshaṇa.
5. Rājyādi-prāsādādhikāra.
6. Keśaryādi-prāsāda-jāti-lakshaṇa, pañcha-kshetra-pañcha-chat-vārimśan-meru-lakshaṇādhyāya.
7. Maṇḍapa-bālānaka-sambaraṇādhikāra.
8. Jirṇoddhāra-bhinna-dosha-sthāvāra-pratishṭhā, Sūtra-dhāra-pūjā, Jina-pratishṭhā, Vāstu-purusha-vinyāsa.

**PRĀSĀDA-LAKSHAṆA**—Attributed to Varāhamihira—On architecture.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 208.)

PRĀSĀDA-LAKSHAṆA—On buildings.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. I, p. 473.)

PRĀSĀDĀLANĀKĀRA-LAKSHAṆA—On the decoration (articles of furniture) of buildings.

(In possession of the Mahārājā of Travancore; Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 473.)

## B

BIMBAMĀNA—(MSS. British Museum, nos. I. 559, 5291, foll. 33, 7 lines to a page; II, 558, 5292, foll. 27, 9 lines to a page; written in Siṁhalese character, has a Siṁhalese commentary)—This is a treatise on religious sculpture, stated to be extracted from a Gautamiya ascribed to Sāriputra. The last colophon runs thus: Iti Gautamiya Sāri-putrā-śrute Bimba-mānam samāptam. The commentator explains this Bimbamāna-vidhi as the Sarvajña-pratimā-pramāṇa-vidhi.

BRIHAT-SAMHITĀ—Of Varāhamihira—On architectural and sculptural matters.

Chapters :

53. Vāstu-vidyā.
56. Prāsāda-lakshaṇa.
57. Vajra-lepa.
58. Pratimā-lakshaṇa.
79. Śayyāsana-lakshaṇa.

BUDDHA-PRATIMĀ-LAKSHAṆA—On the tāla measure of Buddha-images; exists in Tibetan Translation; the original Sanskrit version is apparently missing.

BUDDHA-LAKSHAṆA—in Siamese, dealing with 'the more orthodox peculiarities of the characteristics of the body.' (M. G. Coede, G. E. F. E. 1915), King Phra Nangklaot thought of it as 'a work of merit to shorten the fingers of the statue of Sakyamuni' in Wat (temple) Sudas at Bangkok (capital of Siam). 'A paper about the attitudes of Buddha images in the Siamese monasteries was written by the Somtej Phra Paramanujit, the son of the King Phra Buddha Yot Fa (died in A.D. 1854).'

BRAHMĀNḌA-PURĀṆA—See under PURĀṆAS.



## BH

BHAVISHYA-PURĀNA—See under PURĀNAS.

## M

MAṬHA-PRATISHṬHĀ-TATTVA—Attributed to Raghunandana—Contains quotations from the *Devī-purāna* and the *Deva-pratishṭhā-tattva*, both of which deal with architectural and sculptura matters.

MATSYA-PURĀNA—See under PURĀNAS.

MANUSHYĀLAYA-CHANDRIKA—(Also called TACHCHU-ŚĀSTRA)—deals with measurement, etc., concerning private dwelling houses as distinguished from religious temples, and military forts, etc. It contains 65 stanzas and a Malayalam translation. There is a manuscript also bearing the same title.

(Oppert's *List of Sanskrit MSS.*, *ibid*, Vol. I, p. 475.)

MANUSHYĀLAYA-LAKSHAṆA—On the building of human dwellings.

(In possession of the Mahārājā of Travancore ;  
Oppert's *List of Sanskrit MSS.*, *ibid*, Vol. I, p. 475.)

MAÑJU-ŚRĪ-MŪLA-KALPA—A *Tantra* work (*cf.* Trivandrum Sanskrit Series), translated in Tibetan, deals with some architectural matters.

MANTRA-DĪPIKĀ (*see* PAÑCHA-RĀTRA-PRADĪPIKĀ)—On architecture.

MAYAMATA—An oft quoted and well-known authority on architecture. There are several treatises attributed to Maya :

I. *Mayamata*, edited by Gaṇapati Śāstri, 1919, from three fragmentary and one incomplete (with a Tamil translation) manuscripts ; it contains 34 chapters, and four more chapters are missing (*see* below).

There are some other manuscripts bearing the same title (*Egg.* 3150, 2575) ; one of them (in the Oriental Manuscripts Library, Madras), written in modern Telugu, on rough paper, contains five chapters with a short commentary by Gannamāchārya.

II. *Mayamata-Śilpa-śāstra-vidhāna* (*Egg.* 3150, 2575, 3151, 2630, with Gannamāchārya's Telugu commentary as noted above).

III. *Maya-Śilpa-śatika* (another manuscript).

IV. *Maya-Śilpa*, a few extracts from this have been translated into English by Rev. J. E. Kearns (*see Indian Ant.*, Vol. v, pp. 230, 293).

There is also another English translation of *Mayamata* in the *Mackenzie Collection* (Translation, class x, Sanskrit, 2-6).

V. *Maya-vāstu*—text, pp. 33, published by Rāma Svami Śāstralu & Sons, Madras, 1916.

VI. *Maya-vāstu-śāstram*—text, pp. 40, published by K. Lakshman Mudali, Madras, 1917.

VII. A Sinhalese version of *Māyāmataya* manuscripts is referred to by A. K. Coomarswamy (*Mediæval Sinhalese Art.*, pp. 124–128). It also deals with a few architectural objects and is meant for ‘learned and skilful architects.’

VIII. *Mayamata-vāstu-śāstra*—Oriental Manuscripts Library, Madras, *Catalogue*, Vol. xxii, nos. 13034 (with a Tamil commentary), 13035 (with a Telugu commentary), 13036, 13037, 13038, 13039 (with a Telugu commentary).

Of these manuscripts no. 13034 is the largest, containing 390 pages of 13½"×8" paper of 22 lines to a page. The subjects and the method of description are strikingly similar to those of the *Mānasāra*. It is divided into the following 36 chapters :

1. Saṁgrahādhyāya.
2. Vāstu-prakāra.
3. Bhū-parikshā.
4. Bhū-parigraha.
5. Mānopakaraṇa.
6. Dik-parichchedana.
7. Pada-devatā-vinyāsa.
8. Deva-bali-karma-vidhāna (incomplete).
9. Grāma-garbha-vinyāsa (incomplete).
10. Nagara-vinyāsa.
11. Bhū-lamb(h)a-vidhāna.
12. Garbha-nyāsa-vidhāna.
13. Upapīṭha-vidhāna.
14. Adhiṣṭhāna-vidhāna.
15. Pāda-pramāṇa-dravya-parigraha.
16. Prastara-karaṇa.
17. Sandhi-karma-vidhāna.
18. Śkhara-karaṇa-bhavana-samāpti-vidhāna.
19. Eka-bhūmi-vidhāna.
20. Dvi-bhūmi-vidhāna.
21. Tri-bhūmi-vidhāna.
22. Bahu-bhūmi-vidhāna.
23. Prakāra-parivāra (elsewhere, Sandhi-karma-vidhāna).
24. Gopura-vidhāna.
25. Sabhā(maṇḍapa)-vidhāna.
26. Śālā-vidhāna.

27. Gṛiha-mānādhikāra (elsewhere Chatur-gṛiha-vidhāna).
28. Gṛiha-praveśa.
29. Rāja-veśma-vidhāna.
30. Dvāra-vidhāna.
31. Yānādhikāra.
32. Yāna-śayanādhikāra.
33. Liṅga-lakṣhaṇa.
34. Piṭha-lakṣhaṇa (incomplete).
35. Anukarma-vidhāna.
36. Pratimā-lakṣhaṇa.

Compare no. I, which contains the first 34 out of 36 chapters given in the above list, the variations are noted within brackets.

No. 13035 contains in 74 pages the chapters 1-32.

No. 13036 is same as no. 13035.

No. 13037 contains only two incomplete chapters in six pages.

No. 13038 contains in 94 pages the following twelve chapters :

1. Pratimā-vidhāna.
2. Āya-lakṣhaṇa.
3. Liṅga-lakṣhaṇa.
4. Daśa-tāla-vidhāna.
5. Kuñchita-vidhāna.
6. Nava-tāla-vidhāna.
7. Hasta-karma-vidhāna.
8. Upapiṭha-vidhāna.
9. Eka-bhūmi-vidhāna.
10. Dvi-tāla-vidhāna.
11. Tri-tāla-vidhāna.
12. Gopura-vidhāna.

Its colophon runs thus—‘ iti Gannāchārya-virachitāyām Mayamate Śilpa-śāstre . . . ’

No. 13039 contains in 36 pages the first four chapters of no. 13038. ‘ There is in Tamil a treatise on *Śilpa-śāstra*, said to have been originally composed in Sanskrit by Myen (i.e., Maya) who, according to mythology, was a son of Brahma and architect of the gods. The original work appears to have been disseminated far and wide, and to have suffered by omissions as well as by additions. The work under consideration seems to have been formed from selections of existing editions of the original work under the superintendence and guidance of persons having a practical knowledge of *Śilpa-śāstra* or at least of persons professing to have such knowledge.

(*Ind. Ant.*, Vol. v, p. 230, c. 1, para. 1 ; see also *M.*, II, 11-12, 17-20, under STHAPATI.)

In regard to Maya the following note is of great interest :

'That the Maya culture of Central America was derived from Asia is demonstrated by Mr. J. Leslie Mitchell in his book *The Conquest of the Maya*. In reviewing the publication Mr. H. J. Massingham writes that the evidence for a succession of cultural waves from Asia is so overwhelming that "the impartial reader must wonder why the issue was ever a controversial one." It appears that it was India which contributed most to the development of Maya culture. Among the Maya sculptures are to be found representations of Hanuman, of Ganeśa, and of Indra and the pictorial and ritualistic reminiscences of Buddhism. "All this suggests," says Mr. Massingham, "that the ancient mariners reached the American coast from A. D. 700 onwards not once but many times." The Hindu culture could not have been transported to Central America unless the Hindus had been a great sea-faring people.'

Exploration of the sites of a lost civilization is the fascinating pursuit of Dr. Gann, who has discovered a hitherto unknown monolith and a once-populous site in the forests of Yucatan. He is exploring for traces of the Mayas, and his progress is recorded in a series of articles published in the *Morning Post* :

I discovered the ruins of the great city of Coba,' he writes, through information found in a recent translation of the ancient Maya manuscript book of Chilán Balam of Chumayel. This describes the migration of the Itzas from Chichenitza to Coba, which is about fifty miles to the east of Chichenitza.

'The books of Chilán Balam are the old traditions of the Mayas, which survived the Spanish conquest of Yucatan. They record the migrations of Maya clans, and were reduced to writing in the sixteenth century. I was informed by a wandering Maya Indian that in the Mexican territory of Quintana Roo he had come across a great slab of stones lying buried in the bush upon which were inscribed : "Ubalob uxben uincoob," or things belonging to the ancient people. He said he had found it not many miles north of the British Honduras frontier.

'As guide I took the Indian who had told me of the stone. He, like most of his race, had nothing to say to strangers, and he said it most efficiently.

I had no difficulty in obtaining my permit to visit the shores of Chetumal Bay, where the Maya monolith was reported to be.

So we set out on our journey up the Bay, which runs almost due north for about thirty miles into the south of the Yucatan Peninsula. This is surely one of the most desolate stretches of water in the world. It is shallow, yellow, forbidding. On the east separating it from the Caribbean Sea, is an unexplored, uninhabited peninsula, covered with virgin bush.

On the west, between the Bay and the great Bacalar Lagoon, the land is equally desolate, being traversed at rare intervals only by a few Indian Chiclé bleeders, who roam in search of the sapodilla trees, from which they get the latex that forms the raw material of chewing gum.

‘ About thirteen miles from Payo Obispo I lighted on my great find. We came to a spot on the west coast of the bay where an Indian had cut down the bush to make a small maize plantation. My Indian guide directed us to land here, and then led us to the stone we were seeking.

‘ The full importance of the discovery was not apparent at first. It was a block of greyish schist, twelve feet long, eighteen inches wide, and twelve inches thick. It had at one time stood upright, but now lay flat and embedded in the ground. Upon one edge faint traces of sculpture were visible, but the greater part of the exposed surfaces had been worn quite smooth by the tropical downpours of an unknown number of rainy seasons. This has been the fate of many Maya inscriptions.

‘ I then brushed the soil from the stone, and there—glorious surprise—I saw the Maya Initial Series Date—9. 8. 0. 0. 5 Aban 3 Chen. or 26 October, A. D. 333! The sculpture preserved by its burial in the earth, was almost as clear and plain as on the day when it was cut in the stone, nearly sixteen centuries ago.

‘ Amid all the Maya ruins in Yucatan only four such Initial Series dates have been found, and the date carved on the monolith which lay before me was more than three hundred years earlier than that appearing on the oldest of the stelae previously found. Now, one of the most baffling mysteries connected with the Mayas is their abandonment of their old empire and foundation of the new one; for, at a certain period in their history, they left their cities, built with an enormous expenditure of labour, and migrated from the fertile lands in which they stood to found new settlements in what were, apparently, uninhabited regions.

‘ Earthquakes, pestilence, and foreign invasion have been suggested as possible causes of this migration. The cities the Mayas left bear no traces of violence having been wrought by man or the forces of Nature, and the buildings of their new settlements were obviously erected by a people with unimpaired vigour. It is therefore important to fix the date when they first established themselves in Yucatan; and this discovery may, in fact, cause a complete reversion of the ideas generally held as to their first immigration into this peninsula and their foundation of what is known as the New Empire. It may, indeed, affect our views of the whole history of the earliest and most advanced aboriginal civilization of America, which was in many respects the highest civilization of ancient, if not of any time.

‘ The carving on this stela begins with the initial glyph and in column below this come the glyphs meaning—

9 Bactuns (periods of 400 years, each of 360 days).

8 Katuns (periods of twenty years), 0 Tuns (years).

0 Unials (Maya months of twenty days).

0 Kins (days). It thus records the lapse of 3,760 years from the beginning of the Maya chronology. The Mayas did not count any period of time until it was completed, that is to say, their sign for the first day of a month was 0. So if written in our style these glyphs would read 1. 1. 3761.

It is generally assumed that the date from which the Mayas reckoned their chronology is mythological rather than historical. But for the present purposes consideration of such a question is immaterial. The point is that all the dates on such monoliths are reckoned from the same day, and therefore, according to Spinden's correlation of their system with ours, this date corresponds to our 26 October, A.D. 333.

‘ This would, apparently, place the beginning of the Maya chronology in 3381. The British Museum Guide to the Maudsley collection of Maya Sculptures gives this Maya date 9. 8. 0. 0. 5 Ahan, 3 Chen as A.D. 64. But it mentions that Professor Morley has worked out another correlation which places this and all other Maya dates some 270 years later.

‘ Beneath this date on the stela was a great sheet of hieroglyphics, which were perfectly clearly defined, but they are in our present state of knowledge indecipherable. I have no doubt though that if we could read them we should find that they recorded events which had occurred during the preceding Katun or period of twenty Maya years, as such stelae were put up by the Mayas to commemorate the ends of each of those periods.

‘ The monolith had been erected just in front of a great terraced pyramid which stood between two others. All these pyramids were faced, in the usual Maya style, with blocks of cut limestone. The central one had three terraces and was 32 feet high. Its flat top, upon which there no doubt stood a wooden temple, long since perished, was 135 feet long and 64 feet across.

‘ Further investigation showed that these pyramids were at one end of a great enclosure, which was surrounded by a massive stone wall. This wall is from 12 to 15 feet thick at the base, and in the places where it has remained intact, it is 12 feet high; but for the most part the growth of luxuriant vegetation has thrown the stones down and the ruins are only 3 or 4 feet above ground. The wall is a mile and a half long and forms a semi-circle with the two ends running down to the shore.

' I think there can hardly be any doubt that this was intended as a fortification, and therefore a particular interest is attached to it. For, judging by all their sculptures, the ancient Mayas knew nothing of war. Their sculptors have left no records of battles or triumphs, such as those of Greece, Egypt, or Babylon. One assumed that all the Maya clans dwelt in amity and that until quite late in their history they had no experience of fighting, either among themselves or with alien races.

' Yet here we have what is obviously a defensive work, and it seems significant that the only two walls of this kind which have hitherto been discovered are also in Yucatan, one being at Tulum, on the east coast, and the other at Chicken Itza, in the northern interior. Against whom were these defences erected? Judging by the date on the stela, they were built centuries before the Mayas came in contact with the Tolecs, on the north. It has been assumed that Yucatan was uninhabited when the Mayas first took possession of it, and they were not in the habit of building such walls in the earlier cities to the south. Why this innovation?

' The space enclosed by this wall had evidently been densely populated in bygone times. For in the places where the Indians have cleared the undergrowth away, one could see that the ground is literally covered with potsherds, flint and obsidian chips, clay beads, spindle whorls, small human and animal heads, and other surviving evidences of human habitation-

' A great concourse of people must have lived there for many generations.

' The discovery of these ruins was, more or less, incidental. During this season my primary objective is Northern Yucatan, where Professor Morley, of the Carnegie Institute, and I propose to test the truth of some wonderful Indian legends. The Indians have told me of a vast subterranean cavern some twenty miles long, and of the ruins of a great city which no white man has seen.

' Along the east coast of Yucatan live the Santa Cruz Indians, presumably the direct descendants of the ancient Mayas who erected magnificent temples and palaces, most of which now lie buried in the tropical forests. Some have been discovered, but there is no doubt that a great number of them yet remain to be discovered.

' The Santa Cruz Indians have never been subdued, and for five centuries they have successfully resisted all the efforts, first of the Spaniards and later of the Mexicans to conquer their country. These Indians so far as is known lead the lives of their ancestors of a thousand years ago. They worship the same gods and perform the ancient religious ceremonies. But we know little about them, because their villages are buried in the dense forests of the hills and they permit no strangers to intrude.

'The danger of penetrating into this Santa Cruz country arises from the fact that the suspicious Indians may fire from the bush without inquiry whether the strangers are friends or foes.'

About the vast cave of Loltun, which is possibly the largest cavern in the world he adds that 'this cave is entered by great well-like holes in the earth through which one descends by ladders from ledge to ledge arriving in immense rocky chambers whose floors are covered with stalagmites and cave earth, and from whose lofty roofs depend vast stalactities. Two of these holes are a mile apart, and the intervening space has never been traversed by a European. From the great chambers unexplored passages branch out in every direction. On the floors of the chambers, buried in the cave earth, innumerable potsherds have already been found, also human and animal bones, flint and stone weapons and implements, and many other relics of the ancient inhabitants. It is possible that the deeper layers of earth and the remote galleries and passages may contain relics of the pre-Maya inhabitants of Yucatan, of whom nothing whatever is known at present.

'It is said by the Indians that subterranean passages from this cavern reach to the ruined city of Chicken Itza 20 miles away. There is a tradition handed down amongst the modern Indians that during one of the innumerable internecine wars amongst the Maya which followed the breaking up of the central authority, after the Conquest of Mayapan, the inhabitants of a neighbouring village were driven to take refuge in this cave by a band of their enemies, who pursued them even into this last refuge, and that of neither pursued nor pursuers was any trace ever again seen.

'Some believe that in the dark all fell over a precipice into some vast chasm in the limestone, others that all lost their way in the intricate maze of endless galleries, and others again that all were suffocated by poisonous gases. Whatever their fate, the possibility of coming suddenly at any turn upon groups of rag clad skeletons shrouded in the impalpable dust of ages does not detract from the eerie feeling induced by traversing these vast catacombs, where silence is almost palpable. One's feet make no noise on the soft cave earth, and one is almost afraid to raise one's voice, which reverberates round the Great Stone chambers and is thrown back in a thousand mocking echoes from the rocky walls. Upon the walls of the lighted chamber many crude drawings have been left by the former inhabitants, and in one case is inscribed a late Maya date A.D. 1379.'

Whatever Dr. Gann's conclusions may be his actual discoveries are of stupendous interest. The causeway that he has found is of supreme importance. He regards it as having been built for the purposes of human sacrifice. I disagree. My reason for disagreeing is that there are similar causeways in Cambodia, which were designed purely for ceremonial purposes.



' The whole Maya remains as discovered show the closest possible relation with the civilization as it existed in Java and South-East Asia to what has been found in Yucatan. There is nothing to my mind that suggests that the form of civilization is indigenous, and I should be inclined to hold that the temples at Java were the proto-types of what has been found in Yucatan.

' Unquestionably in the early days perishable wood structures were built, but when stone supplanted wood, you find pyramids being built precisely on the same lines that they were being built in South-East Asia. They were, so far as the staircases were concerned, a copy of what the Babylonians were building 2,000 years before the era of Christ. It is necessary to remember that as Indian civilization spread eastwards the type of pyramids established by them became fashionable and was built in stone.

' While the great causeway was of outstanding interest, it had to be remembered that it could be paralleled with the remains of Indian civilization. Further there was no question but that Maya carvings represented Indian elephants and Indians with typical head-dresses.

' Indian navigators, it was known, had combed out the islands in the Pacific, such as Easter Island and many others, and it was unthinkable that they should not have discovered a continent that stretched from pole to pole.

' To the archaeologist the issue now raised was of supreme importance. Until fifty years ago the orthodox held that the Maya civilization was of Indian origin. The dating derived from the hieroglyphs was so vague as to give little help, and interpretation varies by as much as three or six centuries.

' What supremely interests the archaeologists,' Professor Elliot Smith continues, 'is that we find a civilization starting full-blown in Central America. Under Asiatic influence, it rose to great heights, but had already collapsed before the advent of the Spaniards who may have given it the *coup de grace*. To know the real secret of Maya culture affects our whole interpretation of civilization.

' Can different communities, such as the Indian, the Chinese and the American, build up a civilization independent of each other, or is it possible for a certain civilization to be spread about the world in the same way that a steam engine can be distributed ?

' This is the great problem of ethnology today, and the issue now centres in the problem as to how civilization started in Central America. There is a large gap between Asia and America, but if diffusion means anything it means that that gap must have been bridged as I have shown it could have been.

‘ The Maya civilization rose and fell. It fell so soon as the energy of the driving force that inspired it declined. This is our view, and we do not believe in an indigenous culture that rose through its own impetus, and that fell as a result of foreign invasion.’

No one now questions Dr. Gann’s facts, but many competent archaeologists dispute the conclusions at which he arrived. An archaeological issue has now been fairly raised. Did the Maya civilization arise from native American civilization, or was it the result of peaceful penetration by the Asiatic?

Professor Grafton Elliot Smith, of University College, London, discussing the subject with a *Morning Post* representative disagreed absolutely with the views put forward by the American school, and supported by Dr. Gann.

‘ At University College,’ he said, ‘ we are absolutely convinced that the Maya civilization was directly derived from India. We regard it as certain that between the Fourth and the Twelfth Century there was a penetration from the South-East of Asia. The question of dating is admittedly difficult, but from the facts we have in our possession I should be inclined to think that Dr. Gann’s dates may err by as much as three centuries.’

(Central News, quoted from *Morning Post*, by *Statesman*,  
March 21, April 9, 17, 15, 1926.)

**MAHĀ-NIRVĀṆA-TANTRA**—Deals with both architectural and sculptural matters, such as temples, idols, phallus, ponds, and tanks, as well as with the directions concerning broken limbs of images, especially the materials of which buildings and idols should be made the Vāstu god, and so on (Chapter XIII, verses 22–286, see also chapters XIV and VI).

**MAHĀBHĀRATA**—(First Bombay edition ; 2nd Calcutta edition Gild. Bibl. 93)—Sabhā-parvan, chapters :

1. Maya built a council hall (sabhā) for the Pāṇḍavas.
7. Indra-sabhā-varṇana.
8. Yama-sabhā-varṇana.
9. Varuṇa-sabhā-varṇana.
10. Kubera-sabhā-varṇana.
11. Brahma-sabhā-varṇana.

**MĀNA-KATHANA**—On the system of measurement.

(Oppert’s *List of Sanskrit MSS*, *ibid.*, Vol. II, p. 473.)

**MĀNAVA-VĀSTU-LAKSHANA**—On architecture.

(Oppert’s *List of Sanskrit MSS*, *ibid.*, Vol. I, p. 476.)

MĀNASA—(Same as MĀNASĀRA). • See below.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 518.)

MĀNASĀRA—(edited and translated into English for the first time by the writer)—The standard treatise and a complete text on architecture and sculpture. It comprises 70 chapters in more than 10,000 lines. There are eleven manuscripts of it. See the details given under the Preface of its first edition by the writer and compare the writer's *Summary of Mānasāra*, Leiden, 1917, in the *Indian Architecture according to Mānasāra-Silpa-sāstra*, 1927, and in *Hindu Architecture in India and Abroad*.

MĀNASOLLĀSA—(R. L. Mitra's *Notices of Sanskrit Manuscripts*, Vol. III, p. 182)—Attributed to the Chālukya king Someśvara. In two chapters, it deals with the following subjects :

1. Mandirāmbha-muhūrta-kathana.
2. Shoḍaśa-prakāra-gṛiha-lakṣhaṇa.
3. Rāja-gṛiha-lakṣhaṇa.
4. Vāstu-deva-pūjā-vidhi.
5. Gṛiha-praveśa-kathana.
6. Gṛiha-varṇana.
7. Gṛiha-chitra-varṇa-lakṣhaṇa.
8. Vajra-lepa-lakṣhaṇa.
9. Lekhanī-lakṣhaṇa.
10. Tāmbula-bhoga-kathana.
11. Vilepanopabhoga-kathana.
12. Vastropabhoga-kathana.
13. Mālyopabhoga-kathana.
14. Bhūshābhoga-kathana.
15. Āsana-bhoga-kathana.
16. Putrādi-bhoga-kathana.
17. Anna-bhoga-kathana.
18. Pāniya-bhoga-kathana.
19. Abhyaṅga-bhoga-kathana.
20. Yāna-bhoga-kathana.
21. Chhatra-bhoga-kathana.
22. Śayyā-bhoga-kathana.
23. Dhūpa-bhoga-kathana.
24. Strī-bhoga-kathana.

This work should not be confounded with that of the same name in Taylor's *Catalogue Raisonné* (Vol. I, p. 1) and its commentary, *Mānasollāsa-vṛittānta-prākāśa* (in Weber's *Berlin Catalogue*, p. 179.)

MĀNASOLLĀSA-VRITTĀNTA-PRAKĀŚA—On architecture (*cf.* Gaekwad Sanskrit Series).

(In possession of Vimāna-Achārya, Benares, Weber's *Berlin Catalogue*, p. 179.)

MŪRTTI-DHYĀNA—On sculpture.

(Aufrecht, *ibid.*, Part I, p. 464.)

MŪRTTI-LAKSHAṆA—On idol-making.

(*Ibid.* p. 464.)

There is another manuscript bearing the same title which is stated to have been taken from the *Garuḍa-saṁhitā*.

MŪLA-STAMBHA-NIRṆAYA—On architectural description of the main pillar of a house.

(*Ibid.*, p. 464, Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 202.)

R

RATNA-DĪPIKĀ—(Attributed to Chaṇḍeśvara)—On architecture.

(Aufrecht, *ibid.*, Part II, pp. 36, 114.)

RATNA-MĀLĀ—of Śrīpati—Deals with astrological matters in connexion with the construction of houses and idols of deities under the following chapters :

17. Vāstu-prakaraṇa (28 verses).
18. Gṛiha-praveśa (11 verses).
20. Deva-pratishṭhā (13 verses).

RĀJA-GṚIHA-NIRMĀNA—On the building of royal palaces.

(Burnell's *Classified Index to the Sanskrit MSS. in the Palace Library of Tanjore*, 1880.)

RĀJA-VALLABHA-ṬIKĀ—A commentary on Rājavallabha-Maṇḍana.

(*Catalogue of Sanskrit MSS. in Private Libraries of Gujarat, etc.*, 1872, p. 276.)

RĀMĀYAṆA—(First Calcutta edition, ed. Schlegel *Gild. Bibl.* 84, ed. Gorrens, *Gild. Bibl.* 85, 2nd Bombay edition)—Devotes large portions of the following chapters on architecture :

Ādikāṇḍa, 5th Sarga, the description of the city of Ayodhyā.

Laṅkākaṇḍa, 3rd Sarga, the description of the fort of Laṅkā.

(There are also numerous casual references to architectural and sculptural matters in the Epics, the Purāṇas and the Āgamas.)

RĀŚI-PRAKĀRA—(Attributed to Garga)—Deals with astrological matters concerning architecture.

(*See Vāstu-Sāraṇi.*)

RŪPA-MANḌANA—(Attributed to Maṇḍana Sūtradhāra)—On architecture.

(Cf. Rājavallabha Maṇḍana.)

LAKSHAṆA-SAMUCHCHAYA—On the features in images of deities, quoted by Hemādri in Dānakhaṇḍa (p. 823), in Muhūrta-dīpakā, and Paraśurāma-prakāśa.

(Aufrecht, *ibid.*, part 1, p. 535.)

LAGHU-ŚILPA-JYOTISHA—On architecture.

(*British Museum Catalogue*, 20, E. 32.)

LAGHU-ŚILPA-JYOTIḤ-SĀRA—By Śivarāma, with a Gujarati commentary—This pamphlet deals mostly with astrological matters concerning architecture. The contents are indicated in the following verses :

Āya-rāśīś cha nakshatraṃ vyayas tārāmsākas tathā ।  
 Gṛaha-maitrī rāśi-maitrī nāivedha-gaṇendavāḥ ॥ (3)  
 Ādhipatyam vāra-lagne tithy-utpattis tathaiva cha ।  
 Ādhipatyam varga-vairam tathaiva yoni-vairakam ॥ (4)  
 Ṛiksha-vairam sthitir nāśo lakshaṇāny eka-vimśatiḥ ।  
 Kathitāni muni-śreṣṭhahiḥ Śilpa-vidvadbhir gṛihādishu ॥ (5)

LINGA-PURĀṆA—See under PURĀṆAS.

## V

VALI-PĪṬHA-LAKSHAṆA—On architecture.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. 1, p. 473.)

VĀYU-PURĀṆA—See under PURĀṆAS.

VĀSTU-CHAKRA—On architecture.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, p. 538.)

VĀSTU-TATTVA—(By Gaṇapati Śishya, Lahore, 1853)—Consists of four chapters and deals largely with astrological matters concerning architecture.

VĀSTU-NIRṆAYA—On architecture, dealing specially with the classes of vāstu (see under VĀSTU).

(Aufrecht, *ibid.*, part 1, p. 568.)

VĀSTU-PURUSHA-LAKSHANA—On architecture.

(Taylor's *Catalogue Raisonné of Oriental MSS. in the Library of the late College of Fort St. George*, Vol. 1, p. 313.)

VĀSTU-PRAKĀSA—(Attributed to Viśvakarman)—On architecture.

(Aufrecht, *ibid.*, Part 1., p. 568, in possession of Bālābhāri Sapre, Benares, *Catalogue of Sanskrit MSS. in N. W. P.*, 1885, Part x, no. 2, p. 56.)

VĀSTU-PRADĪPA (cf. VĀSTU-SĀRAṆĪ)—By Vāsudeva, on architecture.

(In possession of Umāśamkara-Śāstri, Azamgarh, *Catalogue of Sanskrit MSS. in N. W. P.*, 1885, Part x, no. 1, p. 56.)

VĀSTU-PRAVANDHA—(By Lālā Rājakiśora Varmā, Lucknow, 1904)—It deals largely with astrological matters in connexion with architecture, and contains extracts from the *Bṛihat-samhitā*, *Viśvakarmā-prakāśa*, *Muhūrta-chintāmaṇi*, *Samgraha-śiromaṇi*, *Vāstu-vidyā-prakāśa*, *Vāstu-pradīpa*, and *Jyotis-sāra-muhūrta-chakra-dīpikā*.

VĀSTU-MANĀJARI—(Attributed to Maṇḍana Sūtradhāra)—On architecture.

(Cf. Rājavallabha-Maṇḍana.)

VĀSTU-MANḌANA—(Attributed to Maṇḍana Sūtradhāra)—On architecture.

(Cf. Rājavallabha-Maṇḍana.)

VĀSTU-YOGA-TATTVA—(Attributed to Raghunandana)—Treats largely of offerings to Vāstu deity, and contains extracts from the *Matsya-Purāṇa*, *Devī-Purāṇa*, *Rudra-yāmala*, and *Vasishṭha-samhitā*.

VĀSTU-RATNA-PRADĪPA—On architecture.

(Cf. *Vāstu-sāraṇi*.)

VĀSTU-RATNĀVALĪ—(Compiled by Pandit Jivanath Jyotishi, Benares, 1883)—This compilation contains extracts from the *Bhaviśhya-Purāṇa*, *Jyotiḥ-sāgara*, *Gṛiha-kārikā*, *Vāstu-pradīpa*, *Bhujā-bala-bhīma*, *Vasishṭha-samhitā*, *Sri-bhoja-rāja*, *Rāja-vallabha*, *Vāstu-ratna-pradīpa-Siddhānta-śiromaṇi*, of Bhāskarāchārya, *Maṇḍana-sūtra-dhāra*, *Bṛihat-samhitā* of Varāhamihira, and *Ratna-mālā*.

(Burnell's *Classified Index to the Sanskrit MSS. in the Palace Library of Tanjore*, p. 154.)

VĀSTU-RĀJA-VALLABHA—(Attributed to Maṇḍana Sūtradhāra, probably same as *Vāstu-śāstra*, otherwise called *Silpa-śāstra*)—On architecture.

(*Catalogue of Sanskrit MSS. in N.W.P., ibid., p. 56.*)

VĀSTU-LAKSHAṆA—On architecture.

(*Oppert's List of Sanskrit MSS., ibid., Vol. i, p. 480.*)

VĀSTU-VICHĀRA—(Attributed to Viśvakarman)—A treatise on architecture, apparently old.

(In possession of Gaurinath Śāstri, Benares, *Catalogue of Sanskrit MSS. in N.W.P., 1885, ibid., p. 56, Aufrecht, part 1, p. 568.*)

VĀSTU-VIDYĀ—(a manuscript, *see* Oppert's *List of Sanskrit MSS., ibid., Vol. 1, p. 480* ; Aufrecht, *ibid., part 1, p. 578* ; also a text edited by T. Gaṇapati Śāstri, 1913)—Deals with materials, etc. for house building in the following sixteen chapters :

1. Sādhana-kathana.
2. Vasudhā-lakshaṇa.
3. Vāstu-devatā-kathana.
4. Vāstu-purusha-kathana.
5. Vēdi-saṁsthāna.
6. Vāstu-marma-saṁsthāna.
7. Kāla-niyama.
8. Śālā-vidhāna.
9. Pada-māna-kathana.
10. Lupā-lakshaṇa.
11. Lupā-karaṇa.
12. Dhūli-nirodhana.
13. Dvāra-vinyāsa.
14. Kavāṭa-dvāra-vinyāsa.
15. Bhavana-parigraha.
16. Mṛil-loshṭa-lakshaṇa.

VĀSTU-VIDHI—(Attributed to Viśvakarman)—On architecture.

(*Aufrecht, ibid., part 1, p. 568.*)

VĀSTU-ŚĀSTRA (*see* under SANAT-KUMĀRA)—On architecture.

(*Oppert's List of Sanskrit MSS., ibid., Vol. 1, p. 580.*)

VĀSTU-ŚĀSTRA—(also called *Silpa-śāstra*)—Attributed to Rājavallabha Maṇḍana and Bhūpati-vallabha (noticed in *Egg. 3142, 1291*) : one of these manuscripts is published in Saṁvat 1947, at Analūla-

pura in Patana, by Nārāyaṇa Bhārati and Yaśavanta Bhārati—It has a Gujarati commentary and some illustrative diagrams. (Noticed in the Catalogue of printed books and manuscripts in Sanskrit belonging to the Oriental Library of the Asiatic Society, Bengal, p. 173).

It has four more copies—Egg. 3143, 3144, 3145, 3146, p. 1136.

This is a work on architectural disposition of houses, palaces, temples, etc., and the rite to be performed at their inauguration, by Maṇḍana, an architect in the employ of king Kumbhakarṇa of Medapāṭi (and the husband of Mārābai). According to Tod, 'the king Kumbha, who had a taste for arts and built many temples and strongholds, ruled over the country of Mewāra from A. D. 1419 to 1469.' (*Bhandarkar's Report*, 1882-83, p. 37.)

It contains the following fourteen chapters :

1. Mīsraka-lakṣhaṇa.
2. Vāstu-lakṣhaṇa.
3. Āyādi-lakṣhaṇa.
4. Prakāra-yantra-vāpi-kūpa-taḍāga-lakṣhaṇa.
5. Rāja-griha-niveśādi-lakṣhaṇa (verse 28 of this chapter mentions the *Mātsya-Purāṇa* as an authority).
6. Eka-śālā-dvi-śālā-griha-lakṣhaṇa.
7. Dvi-śālā-tri-śālā-chatuḥ-śālā-griha-lakṣhaṇa.
8. Śayana-simhāsana-chhatra-gavāksha-sabhāshṭaka-vedikā-chatuṣṭaya-dīpa-lakṣhaṇa.
9. Rāja-grihādi-lakṣhaṇa.
10. (Māpita) kshetrādbhūta-lakṣhaṇa.
11. Dina-śuddhi-griha-niveśa-griha-praveśa-vivāha-muhūrta-lakṣhaṇa.
12. Gochara-dina-rātri-māna-svarodaya-koṭa-chakra-mātrikā-lakṣhaṇa.
13. Jyotisha-lakṣhaṇa.
14. Śakuna-lakṣhaṇa.

Six other works are ascribed to Maṇḍana :

- I. Rūpa-maṇḍana.
- II. Vāstu-maṇḍana.
- III. Prāsāda-maṇḍana.
- VI. Āya-tattva.
- V. Vāstu-mañjarī.
- VI. Vāstu-sāra.

VĀSTU-ŚĀSTRA-SAMARĀṄGANA-SŪTRADHĀRA—(Attributed to Bhojadeva)—On architecture.

(Aufrecht, *ibid.*, part 1, p. 568.)



VĀSTU-ŚĪROMAṆĪ—On architecture.

(Aufrecht, *ibid.*, part 1, p. 568.)

There is another manuscript of the same title, attributed to Mahārāja Śyāmasāha Śaṅkara.

VĀSTU-SAMUCHCHAYA—On architecture.

(Aufrecht, *ibid.*, part 1, p. 568.)

VĀSTU-SAMKHYA—On architecture, “an extract of Toḍarānanda, very rare, complete and incorrect.”

(*Catalogue of Sanskrit MSS. in N. W. P.*, 1885, part ix, p. 56.)

VĀSTU-SAMGRAHA—(Attributed to Viśvakarman)—On architecture.

(Aufrecht, *ibid.*, part 1, p. 568.)

VĀSTU-SAMGRAHAMU—Contains 100 pages, written in Telugu character, and deals largely with astrological matters concerning architecture.

(*Mackenzie Collection*, by Wilson, p. 171.)

VĀSTU-SARVASVA—On architecture, comprises 16 pages.

(By Nanjunda Dikshita, published by V. Rāmasvami Śāstralu and Sons, Madras, 1916.)

VĀSTU-SĀRA—(Attributed to Sūtradhāra Maṇḍana)—With a Gujarati commentary (Ahmedabad, 1878), it deals largely with astrological matters concerning architecture. There is also another manuscript of same title.

(Aufrecht, *ibid.*, part 1, p. 569.)

VĀSTU-SĀRAṆĪ—(by Mātri Prasāda Pāṇḍe, Benares, 1909)—This is a manual of astrological details in connexion with the construction of a house, compiled from the following treatises :

- I. Grāma-nirṇaya, of Nārāyaṇa.
- II. Rāśi-prakāra, of Garga.
- III. Daśā-prakāra, of Vasishṭha.
- IV. Dik-sādhana, of Bhāskara.
- V. Sthala-śubhāśubha-kathana, of Nārāyaṇa.
- VI. Vāstu-pradīpa.
- VII. Rāhu-mukha, by Rāma.
- VIII. Viśvakarmā.
- IX. Piṇḍa-prakāra, by Gopirāja.
- X. Nārada.

XI. Dhruvādi-śhoḍaṣa-gehāni, by Gaṇapati.

XII. Gṛihārambha, by Śrīpati.

XIII. Vāstu-ratna-pradīpa.

XIV. Dikṣu-vṛikṣhāropana, by Gaṇapati.

VĀSTU-SĀRA-SARVASVA-SAMGRAHA—(Bangalore, 1884, with a Canarese commentary)—A compilation on architecture.

VIMĀNA-LAKŚHAṆA—On architecture.

(In possession of Archaka Yogānanda Bhaṭṭa of Melkoṭa ; Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 266.)

VIŚVAKARMA-MATA—Quoted by Hemādri in *Pariśeṣha-khaṇḍa* (2, 817, 825, 827, 828).

(Aufrecht, *ibid.*, part II, p. 138.)

There is another treatise ascribed to Viśvakarman (Rājendralala Mitra, *Notices of Sanskrit MSS.*, Calcutta, 1871, Vol. II, no. 731, p. 142), fol. 63, English paper 9½" × 7½", copied 1872.

'None of the manuscripts examined by Mr. Burnell is perfect or even tolerably correct.'

It is a treatise on the manual arts attributed to Viśvakarma, the divine architect, but apparently a compilation ; it is written in the Tantric style, having Śiva for its narrator. The manuscript has been copied for Dr. Mitra from old codex in the Halakānāḍā character in the Library of the Rāja of Tanjore. The contents are classified under the following seventeen chapters :

1. Viśvakarmotpattiḥ, karma-viśeṣha-bhedena vyavahṛita-takṣhaka varddhakyādi-śabda-vyutpatti.
2. Satyādi-yuga-jāta-narochchatā-pramāṇam, yajñīya-kāṣṭhena-prastareṇa vā deva-pratimā nirmāṇe mānādi.
3. Takṣhakasya garbhādhānādi-saṃskāra-kathanam, garbhotpatti-kathanādi.
4. Śiva-liṅgādi-pratishṭhārtham sabhā-nirmāṇādi.
5. Gṛaha-pratimā-nirmāṇa-pramāṇam, liṅga-pīṭha-nirmāṇa-pramāṇādi.
6. Ratha-nirmāṇa-vidhi-kathanam.
7. Ratha-pratishṭhā-vidhi.
8. Brāhmi-Māheśvaryādinām sva-rūpādi-varṇādi.
9. Yajñopavīta-lakṣhaṇa.
10. Suvarṇa-rajata-mauñjyādi-nirmita-yajñopavīta-kathanam, dig-bhedena deva-sthāpana-prakārādi, meru dakṣhiṇa-sthita-hema-śilā-kathanādi.

11. Lakshmi-Brāhmi-Māheśvaryādi-devindrādi-dik-pāla-grahādi-mūrti-nirmāṇa-prakāra.

12-13. Mukuṭa-kirīṭa-jaṭā-mukuṭādi-nirmāṇa-prakārādi.

14. Sthāvarāsthāvara-sirhāsana-nirmāṇa-prakārādi, punar viśeṣeṇa kirīṭa-lalāṭa-paṭṭikādi-nirmāṇa-prakāra, Devatāyā mandirasya jīṇoddhāra-prakāra.

15. Liṅga-mūrti-mandira-dvārādi-kathana.

16. Pratimā-mūrti-mandira-dvārādi-kathana.

17. Vighneśa-mūrti-mandirādi-nirmāṇādi-vidhi.

VISVAKARMĀ-JŪĀNA—(edited by Kṛiṣṇa Śaṅkara Śāstri, the real author is not known)—This pamphlet treats largely of ritualistic matters, such as the sacrifices, etc., to Viśvakarman.

VISVAKARMĀ-PURĀṆA—The title here adopted is that given to the volume on the fly-leaf. No colophon of any kind is met with on the manuscript. It is very incorrect and illegible. It has a Telugu commentary equally unintelligible. It deals with architectural matters.

(Egg. MSS., 3153, 2614 ; Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. 1, p. 480.)

VISVAKARMĀ-PRAKĀŚA—(Egg. MSS., p. 112a) also called *Vāstu-śāstra*—It gives a course of directions in thirteen chapters, on the building of houses, the making of roads, tanks, etc. and the rites observed on such occasions, purporting to be founded on the revelation of Viśvakarman, still further traced back successively to Bṛihad-ratha, Parāśara, and Śambhu.

The following editions of it are published :

I. This is published in the Śrīvenkaṭeśvara Press, Bombay, by Khemrāja Śrī Kṛiṣṇadāsa, in Samvat 1952, Śaka 1817.

II. This is published without any commentary at Benares, in 1888.

III. This is a translation of Pālārāmaṅgilāsa into Bhāṣhā, by Mukula Śaktidhara Śarmā, Lucknow, 1896.

The topics treated of in the thirteen chapters are the following :

1. Maṅgalācharaṇa.
2. Vāstu-purushotpatti-varṇana-pūrvakarṇ-pūjanādika.
3. Bhūmi-lakṣhaṇaṁ phalaṁ cha.
4. Gṛiha-praveśa-samaye śakuna-phala.
5. Khaṇana-vidhi.
6. Svapna-vidhi.

7. Bhūmi-phala.
8. Gṛihārambhe samaya-śudhi.
9. Dhvajādyāya-phalāni.
10. Āya-vyayāmśādīnām phalāni.
11. Gṛiha-madhye devādīnām sthāpana-nirṇaya.
12. Dhruvādi-gṛiha-bheda.
13. Dvāra-mānāni.
14. Stambha-pramāṇāni.
15. Gṛihānām śālā-nirṇaya.
16. Gṛihārambha-kāla-nirṇaya.
17. Gṛihārambhe lagna-kuṇḍalishṭha-gṛaha-phalāni.
18. Śayyā-mandira-bhuvana-śudhārādi-gṛihānām lakṣhaṇāni.
19. Pāduka-upānaha-maṅchādīnām māna-lakṣhaṇa.
20. Śaṅku-śilā-nyāsa-nirṇaya.
21. Vāstu-dcha-lakṣhaṇām pūjanaṁ bali-dānaṁ cha.
22. Śilā-nyāsa (*cf.* 20 above).
23. Prāsāda-vidhāna.
24. Śilpa-nyāsa.
25. Prāsāda-nirṇaya.
26. Pīṭhikā-lakṣhaṇa.
27. Maṅḍapa-lakṣhaṇa.
28. Dvāra-lakṣhaṇa.
29. Vāpī-kūpa-taḍāgodyāna-kriyā.
30. Dāru-chedana-vidhi.
31. Gṛiha-praveśa-nirṇaya.
32. Gṛiha-praveśa-kāla-śuddhi.
33. Śayyāsana-dolikādīnām lakṣhaṇa.
34. Praveśa-kalaśa-chakrādi-vāstu-śānti.
35. Durga-nirṇaya.
36. Salya-jñānaṁ śalyoddhāra.
37. Nāgara-sambandhi-rāja-gṛihādīnām nirṇaya.

VIŠVAKARMĀ-SAMPRADĀYA—On architecture, dealing specially with a mythological account of the race of architects descended from Viśvakarman.

(*Egg. MSS.* iv, 3151, 2680.)

VIŠVAKARMIYA-ŚILPA-ŚĀSTRA—On architecture and cognate arts.

(*Oriental Manuscripts Library, Madras, Catalogue*, Vol. xxii, no. 13057, p. 8775, written on 100 pages of palm-leaf 11" × 1½"; copied by one Niṭla Sūrappa on Saturday, the 5th day of the bright fortnight of the Āśvīja month in the year Jaya).

The author acknowledges his debt to Brahmā, Indra, Maya, Bhārgava, Āṅgīrasa, Dhruva, Gautama, Gārgeya, Manu, Vyāsa and Bhṛigu. He also cites from Āgastya.

The colophon runs thus—Viśvakarma-śāstre Viśvakarma-mate, etc.

**VIŚVA-VIDYĀBHARAṆA**—(Attributed to Basavāchārya)—This is a treatise on the duties of artisans, especially members of carpenter (Rathakāra) caste. Its scope is limited to the religious duties of the Rathakāra, who claims Viśvakarma, Viśvarūpa, and Tvaṣṭṛi, as his divine guardians. It consists largely of quotations from the Purāṇas, the Epics, the Sūtras, and other works. Of other authorities may be mentioned Rudradatta's commentary on the Āpastamba Sūtra, the Shaḍ-guru Bhāshya on the Āśvalāyana-Samānukrama-ṃaṇikā, the Vidyāraṇya, and the Sarasvatī-vilāsa with the commentary of Vijñāneśvara.

(*Egg. MSS.*, v, 3151, 2680; Aufrecht, *ibid.*, part II, p. 138.)

**VEDĀNTA-SĀRA**—by Gārlapata Lakṣhaṇāchārya—It contains 79 pages, has a Telugu commentary, and treats of the size of images, the proper time for commencing to build, and similar subjects.

(*Egg. MSS.*, II, 3151, 2680.)

**VAIKHĀNASA**—On architecture.

(Aufrecht, *ibid.*, part I, p. 610.)

**VAIKHĀNASĀGAMA**—See under Āgamas.

**ŚĀSTRA-JALADHI-RATNA**—by Hari Prasāda—On architecture.

(Aufrecht, *ibid.*, part I, p. 644.)

**ŚILPA-KALĀ-DĪPAKA**—On architecture.

(Aufrecht, *ibid.*, part I, p. 647.)

**ŚILPA-GRANTHA**—by Bhuvanadeva Āchārya (*Egg. MSS.*, 3152, 1603 b, written in modern Deva-nāgarī)—A short history of the work is given at the beginning. It is stated that God at the request of Aparājita reveals the theory of constructive art, from the creation of mundane egg to the erection of a town gate, and the measurements of banners, water pots, and bells in sanctuaries.

It is almost identical to (1) Aparājita-prichchhā by Bhava (? Bhuvana) deva, mentioned in Dr. Bhandarkar's Report (1883-1884, p. 276), and to (2) Aparājita-vāstu-śāstra ascribed to Viśvakarman, mentioned in Dr. Bühler's *Catalogue of Gujarat MSS.* (iv. p. 276).

ŚILPA-DĪPAKA—by Gaṅgādhara (B. H. *Catalogue*, 15, G. 14, 14, B, 16)—On architecture, printed by Mahadeo Rāmchandra ; second edition in 1908, with diagrams of instruments and houses, etc.

ŚILPA-NIGHANṬU—by Aghore Śāstri—On architecture.

(*Classified Catalogue of Sanskrit Works in the Sarasvati Bhāṣṭāra Library of Mysore*, class XIX, no. 533.)

ŚILPA-RATNA—by Śrīkumāra (Trivandrum Sanskrit Series, no. LXXV) under instructions from king Devanārāyaṇa of Ambalapuzha in Travancore)—Deals with several architectural matters and painting in 46 chapters, compiled from *Mānasāra* and other treatises (see details in the writer's *Hindu Architecture in India and Abroad*, pp. 176–177).

ŚILPA-LEKHA—On architecture, according to Rāya-mukūṭa quoted by Sarvadhara.

(Aufrecht, *ibid.*, part 1, 647.)

ŚILPA-ŚĀSTRA—(*Egg. MSS.*, 3148, 3012), ascribed to both Kāśyapa and Āgastya—Contains 276 foll. of which 1–72 marked at the top 'Śilpa Śāstra' ; 73–150, 251–276, 'Śilpa-Śāstram Kāśyapeyam,' and 151–250 'Śilpa-Śāstram Āgastyam.' This is apparently a combination of two separate works, of Kāśyapa and Āgastya.

One copy was transcribed (for C. P. Brown) from a Telugu manuscript at Masulipatam in 1832. It consists of extracts from various works on idols, shrines, etc. as stated in the following chapters :

1. Amśumāna-bhede kāśyape parivāra-lakṣhaṇa-ṭāḷa.
2. Umāskanda-śahita-lakṣhaṇa-ṭāḷa.
3. Candra-śekhara-mūrti-ṭāḷa.
4. Dakṣiṇā-mūrti-lakṣhaṇa.
5. Kāla-mūrti.
6. Liṅgodbhava-lakṣhaṇa.
7. Nṛitta-mūrti.
8. Gaṅgādhara-mūrti.
9. Tri-purāntaka-mūrti.
10. Kalyāṇa-mūrti.
11. Ardha-nārīśvara-mūrti.
12. Gaja-bhāra-mūrti.
13. Pāśupata-mūrti.
14. Bhakta-lakṣhaṇa.
15. Bhū-māna-ṭāḷa.
16. Grāmādi-lakṣhaṇa.

Foll.

151. Ity-āgastye-sakalādhikāre mānasa-grāhya-viśeshānāṁ prathamodhyāya.

181. Iti pañcha-vimśati-rūpa-bheda.

251. Ity-amśumāna-bhede kāśyape tāla-bheda-pañāla.

266. Kāśyapa uttama-daśatāla-pañāla.

274. J(G)aurī-lakṣhaṇa-pañāla, adhama-daśa-tāla-pramāṇa.

This chapter is incomplete : the work terminates abruptly at the end of the 14th verse.

In the Oriental Manuscripts Library, Madras, there are more than a dozen manuscripts bearing the title of ' Śilpa-śāstra ' (*Catalogue*, Vol. xxii, nos. 13046, 13047, 13048-13056, 13057). Of these two (nos. 13046, 13047) are attributed to Āgastya, and one (no. 13057) to Viśvakarman. The rest of them are apparently compilations, as they are not ascribed to any author and contain frequent quotations from authorities like Kāśyapa, Mayamata, Viśvakarman, and Āgastya.

There is another manuscript bearing a slightly different title, ' Śilpa ' attributed to Viśvakarman. The details of this will be found under Viśvakarman.

There are four other manuscripts bearing the title of ' Śilpa-śāstra ' but containing no information regarding their authors. They are mentioned in the descriptive *Catalogue of the Mackenzie Collection* by H. H. Wilson (nos. 4-7) :

No. 4—deals with the construction of temples and images.

No. 5—deals with the construction of ornamental gateways.

No. 6—deals with the construction of images.

No. 7—deals with the construction of images and ornamental work in gold and silver.

There is yet another manuscript bearing the title ' Śilpa-śāstra.' It is attributed to Kāśyapa. It deals with the structure of Śaiva temples. (*See the Catalogue Raisonné of Oriental Manuscripts in the Library of the late College of Fort St. George* by Taylor, Vol. I, no. 1585, p. 314.)

Another work bears a slightly different title, ' Śilpa-śāstra-bhūṣhālaya.' (*See the Classified Catalogue of Sanskrit Works in the Sarasvati Bhaṇḍāra Library of Mysore*, class xix, no. 533.)

A ' Śilpa-śāstra ' by Myen (Maya) is also extant. (*See Ind. Ant.*, Vol. v, pp. 230-293.)

Another ' Śilpa-śāstra ' containing no information regarding its author is mentioned. (*See the List of Sanskrit Manuscripts in Private Libraries of South India*, by Oppert, Vol. II, no. 4187, p. 267.)

**ŚILPA-ŚĀSTRA-SĀRA-SAMGRAHA**—(Compiled by a son of one Śivanārāyaṇa)—Consists of extracts from unspecified ancient (prāchīna) works on architecture, and was compiled in the Śaka era 1820.

The verses describing the Bhū-lakṣhaṇa (examination of soil) are same as those given in the *Śilpa-dīpika* by Gaṅgādhara with a Gujarati translation by Kalyāṇadāsa.

**ŚILPA-SARVASVA-SAMGRAHA**—A compilation on architecture.

(Aufrecht, *ibid.*, part 1, p. 647.)

**ŚILPA-SAMGRAHA**—(a large manuscript covering 429 pages of 25 lines to a page of paper 13¼" × 8")—It deals with the construction of temples and images. It is a compilation from various sources notably *Mānasāra*, *Mayamata*, *Viśvakarman*, *Āgastya*, *Kātyāya*, *Paulastya*, *Nārada*, *Bhṛigu*, *Sārasvata*, *Dīptisāra*, *Viśvasāra*, *Chitrasāra*, *Chitrājñānā*, *Kapīñjala-saṁhitā*, *Brahma-yāmala*, *Chandrajñāna*, *Manohalya*, *Kaumudī*, *Nārāyaṇa* and others.

**ŚILPA-SĀRA**—(An incomplete manuscript in the Oriental Manuscripts Library, Madras, *Catalogue*, Vol. xxii, no. 13059, p. 877), containing no information regarding its author—(Comprises 76 pages and deals with the descriptive features (dhyāna) of gods and goddesses, apparently intended to guide the artist in making images.

**ŚILPĀRTHA-ŚĀSTRA**—On architecture.

(Oppert's *List of Sanskrit MSS. in Private Libraries of South India*, *ibid.*, Vol. 1, no. 248, p. 26.)

**ŚILPI-ŚĀSTRA**—(Egg. *MSS.* 3149, 2578b)—covers 71 pages; the title is written on the fly-leaf in Telugu and Marāṭhi, with 'Vaustoo' (*Vāstu-śāstra*) added underneath. It is a treatise on architecture, with a Telugu commentary.

This manuscript is preceded in the same volume by two sections of the Nāgara-khaṇḍa of the *Skanda-Purāṇa*, viz. *Viśvakarmopākhyāna*, and *Viśvakarma-varṁśanuvārṇana*.

**ŚUKRA-NĪTI**—(ed. Jīvananda Vidyāsāgara)—Deals with architecture, and sculpture (in chapter iv, sections 4, 6) and refers to the following matters :

1. Deva-mandirādi-nirmāṇa-vyavasthā.
2. Pratimā-nirmāṇa-vyavasthā.
3. Mūrtinām vāhana-vyavasthā.
4. Gaṇapati-mūrti-vyavasthā.



5. Satī (Śakti)-mūrti-vyavasthā.
6. Bāla-mūrti-vyavasthā.
7. Sapta-tālādi-mūrti-bhāvasya nirmāṇa-vyavasthā.
8. Paiśāchi-mūrti-vyavasthā.
9. Bhagna-pratimā-sthāpana-vyavasthā.
10. Utsava-vyāpāra-vyavasthā.

Section 6 :

11. Durga-nirmāṇa (construction of forts, etc.).

There are frequent casual references to both architecture and sculpture in other portions of the treatise also.

**ŚULVA-SŪTRAS**—Refers to very important architectural matters. The rules for the size of the various Vedis, the shape and the variations of the Agni, etc. are given in the Brāhmaṇas long before they are embodied in the Kalpa-sūtras of which the Śulva-sūtras are but portions. But the explanations of the manner in which the manifold measurements and transformation had to be managed are not clear in the Brāhmaṇas.

Śulva-sūtra is the name given to those portions or supplements of the Kalpa-sūtras, which treat of the measurement and construction of the different vedis or altars, the word 'sūtra' referring to the cords which were employed for those measurements. But in the Sūtras themselves the word 'rajju' is used to express a chord and not the 'sūtra.' A Śulva Adhyāya or Prāśna or Śulva-pariśiṣṭa belongs to all Kalpa-sūtras.

Among the treatises dealing with the measurement, etc., of the Vedis, the two most important are the Śulva-sūtras of Baudhāyana and of Āpastamba: Two smaller treatises, a Mānava Śulva-sūtra and a Maitrāyāniya Śulva-sūtra bear the stamp of later times, compared with the works of Baudhāyana and Āpastamba, which are entitled to the first place by a clearer and more extensive treatment of the topics in question. The literature of the white Yajur-veda possesses a Śulva-pariśiṣṭa, ascribed to Kātyāyana, and Dr. Thibaut rightly thinks that there is not a sufficient reason for doubting that it was really composed by the author of the Kalpa-sūtra.

'The Śulva-sūtras begin with general rules for measuring. In the next place they describe how to fix the right places for the sacred fires, and how to measure out the Vedis of the different sacrifices, the Samiki-vedi, the Pātriki-vedi, and so on. The remainder of the Sūtras contains the detailed description of the construction of the Agni, the large altar built of bricks, which was required at the great Soma sacrifices.'

The construction of altars, wherefrom seems to have developed the Chaityas, Dagobas, Temples, etc., was probably the beginning of ecclesiastical

architecture in India. The architectural details of these altars are interesting.

‘The altar could be constructed in different shapes, the earliest enumeration of which is found in the *Taittirīya-saṁhitā* (v. 4-11). Following this enumeration Baudhāyana and Āpastambha furnish us with full particulars about the shape of all these different chitis and the bricks which were employed for their construction.’

‘Everyone of these altars<sup>1</sup> was constructed out of five layers of bricks, which reached together to the height of the knee; for some cases 10 or 15 layers and a correspondingly increased height of the altar were prescribed. Every layer in its turn was to consist of two hundred bricks, so that the whole Agni (altar) contained a thousand; the first, third and fifth layers were divided into two hundred parts in exactly the same manner; a different division was adopted for the second and the fourth, so that one brick was never lying upon another brick of the same size and form.’

‘The first altar covered an area of  $7\frac{1}{2}$  purushas, that means,  $7\frac{1}{2}$  square, the side of which was equal to a purusha, i.e., the height of a man with uplifted arms. On each subsequent occasion, the area was increased by one square purusha. Thus at the second construction of the altar one square purusha was added to the  $7\frac{1}{2}$  constituting the first chiti, and at the third construction two square purushas were added, and so on.’

But the shape of the whole, the relative proportions of the single parts, had to remain unchanged. The area of every chiti whatever its shape might be, falcon, wheel, tortoise, etc., had to be equal to  $7\frac{1}{2}$  square purushas. Thus squares had to be found which would equal to two or more given

<sup>1</sup>(1) Chatur-asra-śyena-chit—so called because it resembles the form of a falcon and because the bricks out of which it is composed are all of a square shape.

(2) Kaṅka-chit—in the form of a heron (*cf.* Burnell, Cat. 29, of a Carrion Kite), is the same as Śyena-chit except the two additional feet.

(3) Alāja-chit—is the same as (2) except the additional wings.

(4) Prauga-chit—is an equilateral acute angular triangle; and the Ubhayataḥ Prauga-chit is made up of two such triangles joined with their bases.

(5) Ratha-chakra-chit—is in the form of a wheel, (a) a massive wheel without spokes, and (b) a wheel with sixteen spokes.

(6) Droṇa-chit—is like a vessel or tube, square or circular.

(7) Parichāyya-chit—has a circular outline and is equal to the Ratha-chakra-chit, differing in the arrangement of bricks which are to be placed in ix concentric circles.

(8) Samuhya-chit—is circular in shape and made of loose earth and bricks.

(9) Kūrma-chit—resembles a tortoise and is of an angular or circular shape.

(*Cf.* J. A. S. B. 1875, part I, ‘*Śulva Sūtras*’ by G. Thibaut.)

squares, or equal to the difference of two given squares, oblongs were turned into squares and squares into oblongs. Triangles were constructed equal to given squares or oblongs and so on. A circle had to be constructed, the area of which might equal as closely as possible that of a given square.

Diagrams of these altars are given in the *Pandit* (New Series, June, 1876, no. 1, Vols. I and IV, 1882 ; Old Series, June, 1874, no. 97, Vols. IX and X, May, 1876. See also *Sūloa Sūtra* by G. Thibaut, PH.D., *J. A. S. B.*, part I, 1875) and in the writer's *Hindu Architecture in India and Abroad* (Plates xx, a, b).

## SH

SHAD-VIDIK-SAMDHĀNĀ—On architecture, chiefly deals with the finding out of the cardinal points which are necessary for the orientation of buildings.

(Oppert's *List of Sanskrit MSS.*, *ibid.*, Vol. II, p. 200.)

SAKALĀDHIKĀRA—(Attributed to Agastya)—On sculpture, deals with image-making.

(Aufrecht, *ibid.*, part I, p. 683 ; Taylor, Vol. I, p. 72.)

SANAT-KUMĀRA-VĀSTU-ŚĀSTRA—Contains a brief Telugu commentary. The last colophon runs thus : iti Sanatkumāra-vāstu-śāstre sarvādhikāras samāptaḥ. It deals with a few architectural topics in eight chapters.

(See details in the writer's *Hindu Architecture in India and Abroad*, p. 172.)

(*Egg. MSS.*, III. 3151, 2680 ; see also the *List of Sanskrit MSS. in Private Libraries of South India*, by Oppert, Vol. I, no. 8239, p. 580.)

In the Oriental Manuscripts Library, Madras, there are nine incomplete manuscripts of this work (see Vol. XXII, no. 13060–13068, p. 8780 f.). They deal with the following subjects :

1. Gṛiha-saṁsthāpana.
2. Nakshatra-graha-yoga-vidhi.
3. Graha-lagna-vidhi.
4. Taru-tantra-vidhi.
5. Bhū-parikshā-vidhi.
6. Nakshatra-tithi-vāra-śuddhi.
7. Nakshatra-lagna-phala-dvāra-bandha-śubha-sthāna-nirṇaya.
8. Gṛiha-pravcā.

Sanat-kumāra acknowledges his debt to Brahman, Śakra, Yama, Bhārgava, Aṅgīrasa, Maya, Gautama, Garga, Manu, Vyāsa, Bhṛigu, Viśvakarman, and others (*see no. 13060, p. 8781*).

The same list is a little differently given in no. 13064, where Śakra is replaced by Chandra, and Maya is omitted. But in nos. 13062 and 13068 Śakra is not replaced by Chandra although Maya is omitted.

**SARVA-VIHĀRIYA-YANTRA**—by Nārāyaṇa Dikshita—On architectural instruments, and machines.

(Aufrecht, *ibid.*, part 1, p. 702.)

**SAMGRAHA-ŚIROMAṆI**—by Saryu Prasad—As the title implies it is a compilation on architecture and sculpture largely from Vasishṭha, Nārada, Varāha, Vāstu-pradīpa, Viśvakarman, Māṇḍavya, Maya-śāstra, Samarāṅgaṇa-Sūtradhāra, Sārṅgadhara and others.

**SĀRASVATIYA-ŚILPA-ŚĀSTRA**—On architecture.

(Aufrecht, *ibid.*, part 1, p. 714.)

**SUPRABHEDĀGAMA**—*See under ĀGAMAS.*

**SKANDA-PURĀṆA**—*See under PURĀṆAS.*

**STHALA-ŚUBHĀŚUBHA-KATHANA**—by Nārāyaṇa—On architecture. It deals with auspicious and inauspicious sites for building.

(*Cf. Vāstu-sāraṇi.*)

## H

**HASTA-PRAMĀṆA**—Attributed to Viśvakarman—On architectural measures.

(*Cf. Vāstu-sāraṇi.*)



## APPENDIX II

### A LIST OF HISTORICAL ARCHITECTS WITH SHORT NOTES ON THEIR WORKS <sup>1</sup>

#### A

**ACHYUTA**—An architect of A.D. 882–917.

‘A man of Kāmboja descent, the son of Rāma, whose famous name is Achyuta, was here the overseer, he who is an image of Dhanvatri, an incarnation of the quintessence of learning, a friend of the virtuous, and a bee on the lotus of the heart of his master.’

‘As Dhanvatari,’ adds Dr. Bühler, ‘is the Indian Asklepios, the statement that Achyuta was his image, may mean that he was a Vaidya by caste, or that he was a doctor as well as architect.’

(Pchoa Praśasti of the reign of Mahendrapala, v. 23, *Ep., Ind.*, Vol. 1, p. 250, footnote 40.)

According to *Vitruvius* (Book 1, chap. 1, Transl. by Gwilt, pp. 3, 4) the architect ‘should be a good writer, a skilful draughtsman, versed in geometry and optics, expert at figures, acquainted with history, informed on the principles of natural and moral philosophy, somewhat of a musician, not ignorant of the sciences both of law and physic, nor of the motions, laws and relations of each other of heavenly bodies.’ But these do not include medicine.

**ANAKOJA**—Son of the brazier Mārāla, of A.D. 1395.

Mindoja of Patana made, together with his brother Kaloja, a pillar, (kambha) of bell-metal (weight specified) for a lamp.

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, no. 61, Transl., p. 61, Roman text, p. 135.)

**ĀSALA**—An architect (A.D. 1215, V. S. 1272) who constructed the step-well

(Manglana Stone Inscript., line 13, *Ind. Ant.*, Vol. xli, pp. 11; 86, line 9.)

<sup>1</sup> This list does not include the mere Stone Masons or Engravers of Inscriptions, nor those architects who are mentioned in treatises like the Purāṇas, Epics, Kāvya, etc., which are less historical than the Epigraphical records.

ĀHUKA—An architect who built the Śiva temple (A. D. 804).

(The first Praśasti of Baijnath, v. 35,  
*Ep. Ind.*, Vol. I, p. 107.)

I

IDAMORAKA (INDRAMAYŪRA)-ĀCHĀRYA—Sthapati or architect, the guru of the sculptor Ṇaṭaka (Nartaka) who made the image of the cobra on the slab on which the inscription is incised.

(Banawasi Prakrit Inscrip., line 2 f., *Ind. Ant.*,  
Vol. xiv, p. 334, notes 20, 23.)

IMDARĀKA—Sūtradhāra or the carpenter who assisted the chief architect Pāhiṇi, the builder of the Maṇḍapa, Akshasama, and Damā of the temple of Bhīmeśvara built with stones and bricks.

(The Chahamanas of Marwaṛ, no. XIII, Sāṇḍerāv Stone Inscrip.  
of Kelhanadeva, line 2 f., *Ep. Ind.*, Vol. xi, p. 48.)

O

OḌEYAPPA—An architect (A.D. 1386).

‘ This pillar (dīpamāle kambha) was made by Āchāri Ponna-pille’s son Oḍeyappa.’

(*Ep. Carnat.*, Vol. ix, Devanhalli Taluq,  
no. 40, Transl., p. 78.)

K

KALLAYYA—An architect, son of Kalloja of Bānūr, by whom ‘ the work of the (bhoga-)maṇḍapa and the writing of this Śāsana were done.’ (A.D. 1521.)

(*Ep. Carnat.*, Vol. vi, Kadur Taluq,  
no. 91, Transl., p. 16.)

KAMAU—The architect (śilpi), son of Visadru, who built ‘ the fifth octagonal pillar ’ on the face of which the inscription is recorded.

(*Sharqi Arch. of Jaunpur*, Inscrip., no. xxvii  
*Arch. Surv.*, New Imp. Series, Vol. I, p. 51.)

KĀMA-DEVA—Of Śilāpaṭṭa-varṇśa (Śilāwaṭ caste, masons), an architect, appointed by a Muhammadan ruler Jallāla as one of the three architects to build a gomaṭha, a garden, and a step-well in the town of Baṭiḥaḍim.

(Batihagarh Stone Inscrip., v. 12,  
*Ep. Ind.*, Vol. xii, p. 46.)

**KĀLI-DĀSI**—A sculptor (A.D. 1140).

‘For Pratāpa-Hosaḷa-Narasimha-Deva’s sculptor Kedāroja, the sculptor Kālidāsi, champion over the proud, a thunderbolt to the rock (giri), titled (i.e., very eminent) sculptor, made the makaratoraṇa (or carved head-piece for the lintel).’

(*Ep. Carnat.*, Vol. v, part 1, Supplement, Belur Taluq, no. 239, Transl., p.275.)

See also reference under BALLAṆṆA.

**KĀLAKOJA**—Son of the brazier Mārāla-Mindoja of Patana, made together with his brother Anakoja a pillar (kambha) of bell-metal (weight specified) for a lamp (A.D. 1395).

(*Ibid.*, Belur Taluq, no. 61, Transl., p. 59, Roman text, p. 135.)

**KEṆCHA-MALLIVANṆA**—The sculptor of the image no. 32, Belur temple (A.D. 1120).

(*Ibid.*, Belur Taluq, no. 47, Roman text, p. 125, Transl., p.55.)

**KETĀNA**—A sculptor (*see* under BALLAṆṆA.)

**KEDAROJA**—A sculptor (*see* under BALLAṆṆA).

**KEDĀROJA**—A sculptor of Hoysala Narasimha Deva (A.D. 1140).

(*Ibid.*, Supplement, Belur Taluq, no. 239, Transl., p. 275.)

**KUMĀRAM-ĀCHĀRI**—The sculptor of the image no. 12, Belur temple (A.D. 1120).

(*Ibid.*, Belur Taluq, no. 40, Roman text, p. 124, Transl., p. 55.)

G

**GAṆGĀCHĀRI**—An architect (A.D. 966).

‘The work of this temple was done by Gaṅgāchāri.’

(*Ibid.*, Vol. ix, Magadi Taluq, no. 75, Roman text, p. 74, Transl., p. 60.)

**GAṆṬEMADANA-BASAVANA**—An architect (A.D. 1539).

‘Those who did the work (Devāmbudhi tank) : Gaṅṭemadana-Basavana made the pillars, Komāraiya the ornamental work, the stone-Veḍḍa Chenne-Royi built the stones of the embankment.’

(*Ibid.*, Vol. xii, Tumkur Taluq, no. 24, Transl., p. 8, para. 2.)



(ŚRI)GUNDAN—An architect, who built the temple of the (present) god Virūpāksha, originally of Lokeśvara, as mentioned in the inscription for Loka-mahādevī, the Queen-consort of the Western Chalukya king Vikramāditya, the second.

He is called 'Sūtradhāri' (one who supports the cause is the sūtradhāra or carpenter, and the sūtradhāri is the guru or priest of the carpenter). He is again called the Tribhuvanāchārya and also the Sarva-siddhi-Āchārya. He is stated to be the 'creator of many cities and houses; perfect and refined in conversation; houses, palaces, vehicles, seats, couches, his jewelled crown and crest-jewel.'

(Sanskrit and Old Canarese Inscript., no. 99, also nos. 100, 101, and 115, *Int. Ant.*, Vol. x, pp. 164, 163, 165, 166, 170-171.)

## CH

CHAṆDI-ŚIVA—The architect of the Harsha temple, 'the famed son of Virabhadra, omniscient, like Viśvakarman, in the art (or science) of building houses (Vāstuvidyā) . . . He built this delightful house of Śaṅkara with its chapels (maṇḍapa), the beautiful porch (torana) which contains all the gods, like a portion of heaven made by the Creator himself.'

'In his account of the ruins of this temple, Mr. Dean speaks of a doorway relieved by an architrave of the most elaborate sculpture, divided into twelve compartments, in each of which a group from the Hindu Pantheon occupies a place.'

(Harsha Stone Inscript., vv. 43, 44. *Ep. Ind.*, Vol. II, pp. 123, 124, 128, note 72.)

Chahadadevapala son's grandson—Architect of the Qutb Minar.

(An historical memoir on Qutb, by J. A. Page, p. 43, Inscription no. 28.)

CHĀVANA—A son of Dāsoja, sculptor of the images, nos. 6, 11, 27, Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, nos. 35, 39, 45, Roman text, pp. 124, 125, Transl., p. 55.)

CHIKA-HAMPA—The sculptor of the image no. 3, Belur temple (A.D. 1120).

(*Ibid.*, no. 33, Roman text, p. 123, Transl., p. 55.)

(SRI)-CHEṄGAMMA—A sculptor who ‘made this image’ (prati-mā).

(Sanskrit and Old Canarese Inscip., no. cix,  
*Ind. Ant.*, Vol. x, p. 168, c. 1.)

CHOLAJANA—The sculptor of the image no. 17, Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq,  
no. 42, Roman text, p. 124, Transl., p. 55.)

CHOUGA—A sculptor (*see* under BALLANNA).

CHAUDEVA—A sculptor (*see* under MALLITAMMA).

CHH

CHHICHCHHA—An architect who built the temple of Pramathanātha, is called the Vijñāna-viśva-karttṛi-dharmadhāra-Sutradhāra (A.D. 1116).

(Khajuraho Inscip., no. rv, v. 60,  
*Ep. Ind.*, Vol. 1, p. 146.)

JAKANĀCHĀRYA—The architect of the temple at Halibid and Somanāthpura.

*Cf.* ‘Jakanāchārya is the reputed architect of this magnificent building (Kait Išvara temple), but he is also credited with having built all the temples, similar in style, throughout the district . . . A man of the same name is said to have built the temples at Madurā. Jakanāchārya was a prince who, having accidentally killed a Brāhmaṇ, employed twenty years of life, with the hope of washing away this great sin, in rebuilding temples between Kāśi and Rāmeśvara (Cape Comorin)—so says tradition.’

(*Ind. Ant.*, Vol. 1, p. 44, c. 2, para. 2.)

JAṄGAMAYA—An architect (A.D. 1538).

‘Chennema-Nāyaka-aya had the Yelayūr gate built with proper pillars by the hand of Muta-Nāyaka’s disciple Jaṅgamaya.’

(*Ep. Carnat.*, Vol. xii, Kumgal Taluq,  
no. 20, Transl., p. 35.)

JĀHAḌA—The mason (Śilāvaṭa) who worked and shaped the stones for the step-well built by the architect Āsala (A.D. 1215).

(Manglana Stone Inscip., lines 13-14, *Ind. Ant.*,  
Vol. xli, pp. 88, 86, lines 9-10.)

TH

**THODHUKA**—The son of Sammana, was one of the architects who fashioned the very lofty temple of Śiva with the chisel, as well as the Maṇḍapa (A.D. 804).

(The first Praśasti of Baijnath, vv. 36, 37,  
*Ep. Ind.*, Vol. 1, pp. 107, 111.)

N

**NAṬAKA (NARTAKA)**—An architect and sculptor, who made the cobra (nāga) on the slab on which the inscription is incised, a pupil of Āchārya (Sthapati) Idamoraka (Indramayūra).

(Banawasi Prakrit Inscip., line 2 f., *Ind. Ant.*,  
Vol. xiv, p. 334, notes 20, 23.)

**NANNAKA**—A son of Kṛishṇa, most qualified architect of the temple of Śiva (Malava era 795, A.D. 738).

(Inscription from the Mahadeva temple, vv. 29,  
30, 161, *Ind. Ant.*, Vol. xiii, pp. 165, 163.)

T

**TURAVĀŚĀRI-KALIYUGA-MEYYAN**—An architect (A.D. 1331).

‘Another grant, by the same man, of lands (specified) to Turavāśāri-Kaliyuga-meyyan, who built the temple.’

(*Ep. Carnat.*, Vol. ix, Hoskote Taluq,  
no. 96, Transl., p. 99.)

TH

**THALŪ**—An architect of the temple, an account of which is given in the Behal inscription of Singhana (A.D. 1222–23).

(*Ep. Ind.*, Vol. iii, pp. 111, 113.)

D

**DĀSOJA**—Of Balligrāma, sculptor of the images nos. 5, 7, 9 of the Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, nos. 24,  
36, 37, Roman text, p. 124, Transl., p. 55.)

**DIVĀKARA**—The master architect of the famous Vishṇu temple, *Angar Vat*, constructed by King Parama Vishṇuloka of Camboj.

**DEMOJA**—An architect who ‘made the frame of the eastern door’ of the structure referred to in the inscription (A.D. 1240).

(*Ibid.*, Supplement, Belur Taluq, no. 241, Transl., p. 275.)

DEVANĀGA—‘Crest-jewel of sculptors, built the temple of Śiva.’  
(Ratnapura Inscip. of Prithvideva, v. 29,  
*Ep. Ind.*, Vol. I, pp. 49, 52.)

DEVĀDITYA—‘The son of Āhlādana (who became) the firm (? professional, permanent, *sthira*) architect of the Vaidycśa, is famous among the first rank of masons.’  
(Inscip. from Dabhoi, vv. 111, 112, *Ep. Ind.*,  
Vol. I, pp. 31, 24.)

DEVOJA—A sculptor (*see* under BALLANNA).

DHARMA-VANANA—Architect of the Qutb Minar.  
(An historical memoir on Qutb, by J. A. Page,  
p. 43, Inscription no. 29.)

N

NAÑJAYA—A sculptor (*see* under MALLITAMMA).

NANA-SALHA—Architect of the Qutb Minar.  
(An historical memoir on Qutb, by J. A. Page,  
p. 43, Inscription no. 28.)

NARA-ŚOBHA—An architect (of A.D. seventh or eighth century).  
Jambu-dvīpāntare kaśchit vāstu-prāsāda-tadgataḥ |  
Nara-śobha-samo vidvān na bhūto na bhavishyati ||

‘There has not been, and there shall not be, in Jambu-dvīpa (India) any wise man, proficient in (the art of) building houses and temples, equal to Nara-śobha.’

(Sanskrit and Old Canarese Inscip., no. LXI,  
*Ind. Ant.*, Vol. IX, p. 74.)

NĀMDIKA—An architect.

*Cf.* ‘Veyikā (Nām)dikena kataḥ—the rail (the gift of . . . Koṭi) was made by Nāmdika.

(Karle Cave Inscip., no. 18, *Ep. Ind.*, Vol. VII, p. 64.)

NĀGI-DEVA—A sculptor.

*Cf.* ‘This Śāsana of King Harihar was engraved by his orders by the carpenter Śāsanāchārya Nāgideva, the sculptor.’  
(*Ep. Carnat.*, Vol. VIII, part I, Tirthahalli  
Taluq, no. 201, Transl., p. 208, last para.)

NĀGOJA—of Gadugu, the sculptor of the image no. 37 of the Belur temple (A.D. 1120).

(*Ibid.*, Vol. V, part I, Belur Taluq, no. 51,  
Roman text, D. 125, Transl., p. 55.)

**NĀYAKA**—The high-minded son of Āsika, who is at the head of the masons, came from Suśarman's town, was one of the architects who 'fashioned the very lofty temple of Śiva, with the chisel, as well as the Maṇḍapa' (A.D. 804).

(The first Praśasti of Baijnath, vv. 36, 37  
*Ep. Ind.*, Vol. 1, pp: 107, 111.)

**PAṬUMAN**—Carpenter (Sūtradhāra), son of Visaihvā, probably the builder of the gate where 'on a stone near the first niche on the south side' the inscription is found.

(*Sharqi Arch. of Jaunpur*, Insc. no. XIII, *Arch. Surv.*, New Imp. Series, Vol. 1, p. 39.)

**PADARI-MALLOJA**—The sculptor of the image no. 21 of the Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, no. 43, Roman text, p. 125, Transl., p. 55.)

**PADU-MANNA**—A sculptor (*see* under MALLITAMMA).

**PADUMAYA**—A sculptor (*see* under MALLITAMMA).

**PADUMAVI**—An architect (Sūtradhāra), son of Sai-Sutrādhāra, who constructed the door, 'of the right jamb' on which the inscription is written (A.D. 1407).

(*Sharqi Arch. of Jaunpur*, Insc., no. xv,  
*Arch. Surv.*, New Imp. Series, Vol. 1, p. 40.)

**PĀKA**—An architect.

Hail! The house of the temple of (the god) Śrī-Vijayeśvara. Pāka (was) the fashioner of the ornamentation (alaṅkāra-nirmāṇa-kāra) of these two pillars of Mātibhodamma.'

(Sanskrit and Old Canarese Insc., no. cxii,  
*Ind. Ant.*, Vol. x, p. 170, c. 1.)

**PĀHIṆI**—Son of the Sūtradhāra Maḥaḍūa and his wife Jasadevi, the architect who constructed the Maṇḍapa, Akshāsāma, and Ḍamā of the temple of Bhīmeśvara with stones and bricks.

He was assisted by the Sūtradhāra Mahidarā and Imdarāka.

(The Chahamanas of Marwar, no. xii, Sāṅḍerav Stone Insc. of Kelhanadeva, line 2, *Ep. Ind.*, Vol. xi, p. 48.)

**PITHE**—‘The architect who knows the rules of Viśvakarman (the architect of the gods, also means one who knows how to execute every kind of work), planned, designed and executed all the buildings, the temple of Śiva together with that cloister (maṭha) with wonderful floors (bhūmika), the hall of study (vyākhyāna-śālā), and laid out that long line of gardens in two rows (adjoining) Śambhu’s temple’ (A.D. 1155–56).

(Bheraghat Inscript. of Albanadevi, vv. 36, 27, 18, *Ep. Ind.*, Vol. II, pp. 13, 17, 9.)

**PAISSAṆANARA-BIRA**—The sculptor of the image no. 16, of the Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, no. 41, Roman text, p. 124, Transl., p. 35.)

B

**BAMAYA**—A sculptor (*see* under **MALLITAMMA**).

**BALUGA**—A sculptor (*see* under **MALLITAMMA**).

**BALEYA**—A sculptor (*see* under **MALLITAMMA**).

**BALLAṆṆA**—The inscription (Belur Taluq, no. 98, Roman text, p. 165, Transl., p. 71) informs us that a shrine of the goddess Nimbajā was set up in the temple in 1261. The sculptors who executed the marvellous statues and figures on the outer walls of this temple especially on the western side, have not given their names, except here and there, the following are the only ones :—Ballāṇṇa, Bochana, Čaṅga, Devoja, Harisha of Oḍeyagiri, Harisha of Tanagundur, Kālidāsi, Kedāroja, Ketāna, Mābalaki, Māchaṇṇa, Maṇibālaki, Masa, son of Kanimoja, and Revoja.

(*Ep. Carnat.*, Vol. v, part 1, Introduction, p. xxxviii.)

**BIKKAHAPPĀ**—The sculptor of the image no. 36, of the Belur temple (A.D. 1120).

(*Ibid.*, Belur Taluq, no. 50, Roman text, p. 125, Transl., p. 55.)

**BIRANAṆA**—The sculptor of the image no. 22, of the Belur temple (A.D. 1120).

(*Ibid.*, no. 44, Roman text, p. 125, Transl., p. 55.)

**BOCHANA**—A sculptor (*see* under **BALLAṆṆA**).

## BH

**BHŪTA-PĀLĀ**—An architect.

*Cf.* This 'rock-mansion (selaghara), the most excellent one in Jambudvīpa, has been completed by the setṭhi Bhūtapaḷa from Vaijayanti.'

(Karle Cave Inscrip., no. 1, *Ep. Ind.*,  
Vol. vii, pp. 48, 49.)

**BHOJŪKA**—Of Śilāpaṭṭa-varṃśa (Śilawaṭ caste, who are masons and found in the neighbourhood of Damoh), a Sutradhāra (carpenter) appointed by a Muhammadan ruler Jallāla as one of the three architects to build a Gomāṭha, a garden, and a step-well in the town of Baṭiḥaḍim.

(Batihagarh Stone Inscrip., v. 12, *Ep. Ind.*,  
Vol. xii, p. 46.)

## M

**MAṆI-BALAKI**—A sculptor (*see* under BALLAṆṆA).

**MADANA**—'A scion of (the race of) Viśvakarman (? of the Brāhmaṇa caste, *vipra*), the builder of the wall of (glorious) Vaidyeśa, of the extensive temple, of the gates, of the wings, of the foundations.'

(Inscrip. from Dabhoi, vv. 111, 112, *Ep. Ind.*,  
Vol. 1, pp. 31, 34.)

**MANA**—An architect, son of Vijala and grandson of Viśāla; he is stated to have built, being assisted by his followers, the famous temple of Śiva together with many palatial buildings having prominent towers (A.D. 1428–29).

Aneka-prāsādaiḥ parivṛitamati prāṃśu-kalāśaṃ girīśa-prāsādaṃ  
vyarachayad anūnair anucharaiḥ !

Manākhyo vikhyātaḥ sakala-guṇavān Vijala-sutaḥ sutaḥ śilpi jāto  
guṇa-gaṇa-yuto Viśāla iti ||

Vijalasya sutaḥ śilpi Manākhyāḥ sūtra-dhārakaḥ !

(Chitragadh Inscrip. of Mokala of Mewad, second  
part, vv. 2, 3, *Ep. Ind.*, Vol. ii, p. 421.)

**MANYUKA**—An architect who built the Śiva temple (A.D. 804).

(The first Praśasti of Baijnath, v. 35, *Ep. Ind.*,  
Vol. 1, p. 107.)

**MAYINA**—The sculptor of the image no. 31, of the Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, no. 46,  
Roman text, p. 125, Transl., p. 55.)

**MALAYĀ**—A sculptor (*see* under **MALLITAMMA**).

**MALI**—A sculptor (*see* under **MALLITAMMA**).

**MALLI-TAMMA**—An architect (A.D. 1196).

'A newly discovered inscription on a rock at Śrāvāṇa-Belgola, mentions a sculptor named Bidigoja, with the honorary prefix Śrīmart, somewhere about A.D. 900 (Mysore Archaeological Report, 1908-9, p. 15, para. 60); and two other records at the same place, of the date unspecified, mention Chandrāditya and Nāga-varma as having carved Jinas, animals, and other figures for the Jains' (*ibid.*, Report, 1912-3, p. 32).

'The earliest records of the Hoysala sculptors seem to be those on the Amṛiteśvara temple at Amṛitāpura, built in A.D. 1196. The 15 signatures comprise Mallitamma or Malitama, and Mali, each four times; and Padumaṇṇa, Baluga, Majaya, Subujaga, Padumaya and Muhaṇa, each once. The last named signs in Nāgāri character, an indication that he came from the north.'

'Report for 1913-1914, Plate II, contains illustrations of the work of seven sculptors: Masanitamma, Nañjaya, Chau-deya, Baleya, Lohita, Yalamasaya, and Bamaya, all from Somnāthpur.'

(V. A. Smith, *Architecture and Sculpture in Mysore, Ind. Ant.*, Vol. XLIV, p. 94, paras. 3, 4; p. 95, para. 1.)

**MALLIYAṆA**—The sculptor of the image no. 10, Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part 1, Belur Taluq, no. 38, Roman text, p. 124, Transl., p. 55.)

**MALLOJA**—An architect who built the central shrine (garbhagriha) of the temple described in the inscription (A.D. 1167).

(*Ibid.*, Vol. VII, Shimoga Taluq, no. 55, Transl., p. 21, line 3.)

**MASA**—A sculptor (*see* under **BALLAṆṆA**).

**MASADA**—The sculptor of the image no. 33, of the Belur temple (A.D. 1120).

(*Ibid.*, Vol. v, part 1, Belur Taluq, no. 48, Roman text, p. 125, Transl., p. 55.)

**MASANI-TAMMA**—A sculptor (*see* under **MALLITAMMA**).

**MAHĪ-DHARA**—An architect, son of the chief of artisans (Sūtra-dhāra).

(Bheraghat Inscrip. of Alhanadevi, v. 37, *Ep. Ind.*, Vol. II, pp. 13, 17.)



MAHID(H)ARĀ—An architect (Sūtradhara), who assisted Pāhiṇi, the chief architect of the Maṇḍapa, Akshasāma, and Ḍamā of the temple of Bhīmeśvara which was constructed with stones and bricks.

(The Chahamanas of Marwar, no. XIII, Sāṇḍerav Stone Insc. of Kelhanadeva, line 2, *Ep. Ind.*, Vol. XI, p. 48.)

MĀCHAṆṆA—A sculptor (*see* under BALLAṆṆA).

MĀCHOJA—A sculptor and architect (A.D. 1142).

'The sculptor Māchoja, the Āchārya of Kalukuni-nāḍ, the Viśvakarman of the Kali-yuga, built it' (Jinālaya).

(*Ep. Carnat.*, Vol. IV, Nāgamaṅgala Taluq, no. 95, Transl., p. 138, Roman text, p. 239.)

MĀBALAKI—A sculptor (*see* under BALLAṆṆA).

MĀMARIYAŃCHI-TAMMA—A son of the goldsmith Bandiyoja; 'he repaired and roofed a bira-gal, which was made by Alibhanu-Āchāri (A.D. 1242).'

(*Ibid.*, Vol. III, Maṇḍya Taluq, no. 85, Transl., p. 48.)

MUDDOJA—A son of Tipaji, a stone mason, 'who built these (described in the inscription) temples (A.D. 1408).'

(*Ibid.*, Vol. X, Garibidnur Taluq, no. 59, Transl., p. 226, last para.)

MULANA—A sculptor (*see* under MALLITAMMA).

MODHAKIN—(also called Podhakin)—An architect, son of Vara (of the seventh or eighth century).

(Further Pabhosa Insc. no. 1, *Ep. Ind.*, Vol. II, pp. 480-481.)

YAYYA—(otherwise called Jajja)—An architect.

(Further Pabhosa Insc. no. 1, *Ep. Ind.*, Vol. II, pp. 480-481.)

YALAMASAYA—A sculptor (*see* under MALLITAMMA).

R

RĀGHAVA—An artizan (sculptor), son of artizan (sculptor) Virh-jhadeva, who carved the Verawal image (Valabhi Sarhvat, 927).

(Verawal Image Inscrip., line 5, *Ep. Ind.*,  
Vol. III, pp. 303, 304.)

RĀMA-DEVA—Śilpiṇ (artist), son of Rūpa-kāra (sculptor), the engraver of the famous Dhar praśasti (panegyric) of Arjuna-varman.

(Dhara Praśasti of Arjuna-varman, v. 76  
*Ep. Ind.*, Vol. VIII, pp. 117, 98.)

REVADI-OVAJJA—Of the Sarvasiddhi Āchāryas, versed in the secrets of Kanarese stone masons, probably the builder of the Papanatha temple.

(Inscription on Papanath Temple.)

REVOJA—A sculptor (*see* under BALLAṆṆA).

LAKSHMĪ-DHARA—An architect (A.D. 1104).

(Nagpur Stone Inscrip., v. 56, *Ep. Ind.*,  
Vol. II, pp. 188, 194.)

LASE—The sculptor of the image no. 35, of the Belur temple (A.D. 1120).

(*Ep. Carnat.*, Vol. v, part I, Belur Taluq, no. 49,  
Roman text, p. 125, Transl., p. 55.)

LOHITA—A sculptor (*see* under MALLITAMMA).

VĀMA-DEVA—‘Famous for having built the temple of the Sun called Mula-sthāna.’

(Inscrip. from Dabhoi, vv. 111, 112, *Ep. Ind.*,  
Vol. I, pp. 31, 29.)

VIRAṆĀCHĀRYA(1)—A carpenter (*see* under STHAPATI) (A.D. 1558).

‘This copper Śāsana was composed by Sabhāpati Svayambhu, and engraved by Virāṇa’s son, the carpenter Virāṇāchārya.’

(*Ep. Carnat.*, Vol. IX, Channapatna Taluq,  
no. 186, Transl., p. 170, last para.)

(ŚRĪ) VIRANĀCHĀRYA(2)—The architect (tvashṭā), who engraved the copper plate.

(Kṛishṇapuram Plates of Sadāśivarāya, v. 107, *Ep. Ind.*, Vol. ix, p. 339, see more details of this architect under Sthapati.)

VIŚVAKARMMĀCHĀRYA(1)—An artist and painter (A.D. 776).

‘By the abode of all arts, skilled in painting pictures (sarvva-kalādhāra-bhūta-chitra-kalābhijñena), was this Śāsana written?’

(*Ep. Carnat.*, Vol. iv, Nāgamaṅgala Taluq, no. 86, Transl., p. 136, last para., Roman text, p. 235, last two lines.)

VIŚVAKARMMĀCHĀRYA(2)—A painter (A.D. 749).

‘Skilled in all arts including painting (sarvva-kalāntarpāti-chitra-kalābhijñena) wrote the Śāsana.’

(*Ibid.*, Vol. vi, Mudgere Taluq, no. 36, last para., Transl., p. 67, Roman text, p. 153.)

VIŚVA-NĀTHA—An architect (A.D. 1530).

‘Born in the family of Viśvakarma, the architect of the three worlds, Viśvanātha, the son of Basavāchāriya, who was the son of Voḍeyappayya, considered to be the Jagad-guru, engraved it.’

(*Ibid.*, Vol. v, part 1, Channarayapatna Taluq, no. 187, Transl., p. 207.)

## Ś

ŚĀMU—‘This must be the name of some writer on architecture.’

Śāmu-dṛiṣṭim anusṛitya nirmitā—‘constructed (the lofty temple of Śiva, by two architects, Nāyaka and Thoḍhuka) in accordance with the opinion of Śāmu’ (A.D. 804).

(The first praśasti of Baijnath, v. 37, *Ep. Ind.*, Vol. I, pp. 111, 107, footnote 72.)

ŚIVA-PĀLA—A mason, one of whose ancestor is a Sūtradhāra (carpenter, named Deuka) but another of the same family is Sthapati (architect, named Nāga).

(From this it would appear that both Sūtradhāra and Sthapati belong to the same caste and that these are professional titles and not caste-names.)

*Cf.* Āsichcha Nāga-sthapates tu Durggaḥ !

Durggārkkato Deuka-sūtra-dhāraḥ !

Asyāpi sūnuḥ Śiva-pāla-nāmā !

Yenotkṛiteyaṁ suśubhā praśastih !

(Vasantgadh Insc. of Purnapala, v. 34, *Ep. Ind.*, Vol. ix, p. 15.)

**ŚUBHA-DEVA**—(A.D. 754)—Of Śaṅḍilya-gotra, sculptor or architect (rūpakāra), 'son's son of the sculptor Śiva-varḍhamāna, son of the sculptor Śiva; or rather (bhūyaḥ) the Āchārya Jñāna-śiva, who is the disciple of the disciple's disciple at the feet of him, the venerable and worshipful Payo-bhakshin, who had the appellation of Śiva-śāsana, (and) who has come here (Paṭṭadakal, a village in the Bijāpur district, Bombay Presidency) from the Mṛigathaṇikā-hāra-vishaya on the north bank of the (river) Gangā—there has been set up in the (?) gateway (dvāra) of his own particular (? style of) shrine, this great stone pillar, which bears the mark of the seal of the trident,' and is octagonal at the upper part and square immediately below.

(Paṭṭadakal Insc. of Kirtivarman II, lines 15, 16, 17, *Ep. Ind.*, Vol. III, pp. 1, 3, 5, 7.)

**(RĀNAKA) ŚŪLA-PĀṆI**—The crest-jewel of the guild of Vārendra artists (Vārendraka-śilpi-goshṭhī-chūḍā-maṇi), the son of Bṛihaspati, grandson of Manadāsa, and great-grandson of Dharma (end of the eleventh century).

(Deopara Insc. of Vijayasen, v. 36, *Ep. Ind.*, Vol. I, pp. 311, 315.)

**SATYA-DEVA**—A son of Pitāmaha, a merchant by birth, who was the Kārāpaka (persons appointed to look after the construction of the temple, Kielhorn, *Ind. Ant.*, Vol. XIX, p. 62, note 53), selected by the goshṭhī to see this work (the erection of the temple of the goddess Kshemāryā).

(Vasantagadh Insc. of Varmalata, vv. 9, 8, *Ep. Ind.*, Vol. IX, pp. 192, 189.)

**SĀDEVA**—An architect.

(Insc. from Dabhoi, vv. 111, 112, *Ep. Ind.*, Vol. I, pp. 31, 24.)

**SĀMI(NA)**—otherwise called Śyāmila, Svāmin-Vaḍhaki, (i.e., Vardhaki), carpenter or sculptor (Senart).

Sāminā . . . Vaḍhakinā . . . gharasa mugha kata—the opening (or door) was made by Sāmi, the Vardhakin.

(Karle Cave Insc. no. 6, *Ep. Ind.*, Vol. VII, p. 53.)

SĀMILA—also called Śyamila—A carpenter.

‘Son of Veṅṇvāsa, a carpenter, a native of Dheṇukākāṭa, made the doorway.’

(Karle Cave Inscript. no. 6, *Arch. Surv.*,  
New Imp. Series, Vol. iv, p. 90.)

SĀMPULA—‘The intelligent artisan,’ engraver of the Ratnapura inscription of Pṛithvideva, the ‘crest-jewel of sculptors,’ built the temple of Śiva (A.D. 1189).

(Ratnapura Inscript. of Prithvideva, vv. 28,  
29, *Ep. Ind.*, Vol. 1, pp. 49, 52.)

SIGGOJA—The sculptor, who made the sculpture mentioned in the inscription no. 525.

(*Ep. Carnat.*, Vol. viii, part 1, Sorab Taluq,  
no. 525, Roman text, p. 168, Transl., p. 86.)

SINĠAṆAHEBĀRUVĀ—The architect, who built ‘the stone gateway of Śānti-grāma, ornamented with the tiger-facc’ (A.D. 1573).

(*Ibid.*, Vol. v, part 1, Hassan Taluq,  
no. 117, Transl., p. 34.)

SINĠĀYA-BHAṬṬA—Rudraya’s son, hydraulic engineer (jala-sūtrada), master of ten sciences (dasa-vidyā-chakravartī), made (in A.D. 1388), at the order of the Governor Bukka-Rāya, a channel of ten miles from Kallūḍi to the Siravera tank. An interesting account of his accomplishments is given :

Jala-sūtra-svara-śāstre rasa-vaidye satya-bhāshāyām ।

Rudraya-siṅgari bhavataḥ sadriśaḥ ko vā mahī-tale sūraḥ ॥

‘In the science of hydraulics, in divination or telling omens from sounds, in medical treatment with mercury (? perhaps alchemy), in speaking the truth,—Rudraya’s (son) Siṅgari, what learned man is there in the world equal to you?’

(*Ibid.*, Vol. x, Goribidnur Taluq, no. 6, Transl.,  
p. 212, Roman text, p. 259, Preface, p. 2.)

SINĠĀLI-KARGI—The son of Kali, a paṇḍita from the Nava-grāma-draṅga (watch-station near mountain passes, cf. Translation, Rāja-Taraṅginī, v. II, p. 291), the sthapati (architect of the tank specified).

(Shawar Museum Inscript. of Vanhadaka, line  
6, *Ep. Ind.*, Vol. x, p. 80.)

SUBUJAGA—A sculptor (*see* under MALLITAMMA).

SKANDA-SĀDHU—The son of Śrī-kaṇṭha, a descendant of a family of architects (sthapati-kula).

(Sholinghur Insc. of Parantaka I, line 21,  
*Ep. Ind.*, Vol. iv, pp. 224, 225.)

H

HARIDĀSA—An architect (Sūtradhāra), employed to repair the temple of Dakṣiṇāditya (A.D. 1373).

(Gaya Insc. of Vikrama Samvat 1429,  
line 9, *Ind. Ant.*, Vol. xx, pp. 315, 313.)

HARISHA(1)—(of Tāna Guṇḍur)—A sculptor (*see* under BALLAṆṆA).

HARISHA (2)—(of Oḍcyagiri)—A sculptor (*see* under BALLAṆṆA).

HAROJA—A sculptor (A.D. 1243).

‘Harōja, son of Honnāchāryya, son of Boṭakāchāryya, the equal of Manu, Maya, and Viśvakarma, beloved by all the people and farmers, set up an image of the sun.’

(*Ep. Carnat.*, Vol. iv, Nagamangala Taluq, no. 55,  
Transl., p. 127, Roman text, p. 219.)

HALĀ—Of Śilāpaṭṭa-varṇśa (Silawaṭ caste, masons), an architect, appointed by a Muhammadan ruler Jallāla as one of the three architects to build a Gomāṭha, a garden, and a step-well in the town of Baṭihaḍim.

(Batihagarh Stone Insc., v. 12,  
*Ep. Ind.*, Vol. xii, p. 46.)



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<i>Ep. Ind.</i>	.. ..	..	<i>Epigraphia Indica</i> .

<sup>1</sup> The most arbitrary abbreviations of the names of the Taluqs, approximately 100 in the 12 volumes, have not been followed, first because it seems impossible, at least for me, to read, from his abbreviation, Cn., Channarayapattana (in the Introduction, and the table of contents, but indifferently spelt 'Channarayapatna' in the title at the top of each page), from Mj., Manjarabad, etc. (*see* Introduction, Vol. v, part I, p. 1); secondly, 100 such abbreviations will be too tedious for any patient reader to remember. These names have, therefore, been written hundreds of times in full.

Again there are as many as 12 kinds of paging sometimes in each part of each volume. Compare, for instance, Vol. III, 'Contents' after one folio of the fly-leaf, one of the names of the Taluqs, and one of a plate :

(1) Preface (page number is not given).	
(2) List of illustrations (page number is not given).	
(3) Introduction	.. .. 1-36
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(6) Translations of the Inscriptions	.. .. 1-117
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(7) In Kannada characters	.. .. 1-381
(8) in Grantha and Tamil characters	.. .. 1-32
(9) in Arabic and Persian characters	.. .. 1-4
(10) Addenda et Corrigenda	.. .. 1-2
(11) Alphabetical list of towns and villages where the inscriptions were found	.. .. 1-4
(12) Index to Introduction	.. .. 1-11

<i>Abbreviated titles as referred to</i>	<i>Authors and other particulars</i>
Etudes Irianiennes, tom II ..	By Darmesteter.
Fa-hien's Travels ..	By Legge.
F.G.I. ..	Dr. Fleet's <i>Gupta Inscriptions</i> .
Fergusson, <i>Hist. of Ind. and East. Arch.</i>	<i>History of Indian and Eastern Architecture</i> , by James Fergusson, D.C.L., F.R.S., M.R.A.S., 1891.
<i>Gloss. Grecian Arch.</i> ..	<i>A Glossary of Terms used in Grecian, Roman, Italian and Gothic Architecture</i> , Anonymous, London, 1838.
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<i>H.S.I.I.</i> ..	<i>South Indian Incriptions</i> , by Dr. Hultzsch.
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This is not a solitary instance ; compare also Vol. v, part I, which bears nine kinds of paging exclusive of the fly-leaf, names of Taluqs, and a plate ; Vol. vii has ten kinds of paging.

There is yet another difficulty, perhaps the most irritating one, of consulting and referring to this extensive work comprising approximately 12,000 pages. Many of the readers for whose service this encyclopaedia is made are not expected to be familiar with the various South Indian scripts. It is for this reason, and also for sparing readers the trouble of confusing pagings, that I have referred to the Roman text only. But neither the Roman text nor the translation, even of the largest inscriptions covering sometimes 10 pages of 40 lines to a page (*cf.* Vol. v, part I, pp. 362, 364, 530, etc.), has been numbered by verses, lines, or paragraphs. Consequently, no one convenient method could be followed in referring to a particular passage in the Roman text and in the corresponding translation. I might have counted from the beginning of the inscription the lines in both the places (which I have actually done in referring to the smaller inscriptions), but that would not save trouble to readers, as they would themselves be required to count, say, 400 lines twice, once in the text and secondly in the translation. In such cases my references to a particular passage has been given thus : *Ep. Carnat.*, Vol. v, part I,—Chan-naraga-pattana Taluq no. . . . , Roman text or Translation, p. . . . , line . . . (of that particular page, and not from the beginning of the inscription), sometimes from the bottom upwards, stated distinctly in so many words (e.g. line 2 from bottom upwards, instead of saying line 43, i.e. from the top downwards) ; occasionally it appeared more convenient to say p. 43, para. 7, line 9, instead of counting all the lines from the top or bottom of the page.

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<i>J.A.O.S. (followed by part, page, etc.).</i>		

<sup>1</sup> In the earlier volumes of this series, pages are divided, not invariably however, into two columns, which are abbreviated thus : *Ind. Ant.*, Vol. v (preceded by the name of the article or the inscription), p. 320, C. 1 or 2 (=column 1st or 2nd), para. 1 or 2 (where there is more than one), line, say, 7 (of the para., when it is followed by any, or simply lines to be counted from the top ; in cases where it appeared more convenient, it is stated thus : line 7 from bottom upwards). In the earlier volumes the footnotes are not marked by the numerical figures, 1, 2, 3 and so forth ; they are indicated by some inconvenient signs, e.g. \*, †, ‡, etc. It was not possible to refer to these notes by any particular name. Some of the inscriptions published in this series have been given three different titles in three places of reference, namely, one in the table of contents, a different one as the heading of the inscription in the body of the volume, and a third one on the top of the pages wherein it is described. Compare, for example, the following :

(1) 'Two Praśastis of Nānāka, a court poet of Viśāladeva of Gujarata' (*Ind. Ant.*, Vol. xi, contents, at the end of the volume).

(2) 'Sanskrit Grants and Inscriptions of Gujrat Kings, nos. iii and iv, Praśastis of Nānāka, a court poet of King Viśāladeva of Gujrat' (in the heading of the article, p. 98).

(3) Sanskrit Grants and Inscriptions (on the top of pages 99, 101, 103, 105, 107). I have generally referred to the last-named title, i.e. the one occurring on the top of the pages.

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