#### CHAPTER III

#### TEMPLE ARCHITECTURE

#### INTRODUCTION

"Architecture is a product of the interacting influences of history, structural technique, materials comments and reflection on the values of society that produced it"(1).

- Sinclair Gauldie.

The temple in South Dravidades was not a limited set of symbols. It was an endless development and reflection of the human enterprise and potential. It is a monumental expression of sanity and sanctuary in an otherwise complex world. Of this architecture it can be said that it was quasi religious and profundly influenced by the 'exploration of the possibilities of form which is encouraged by the intellectual climate of the society"(2). Summing it up in Gombrich's words "All culture and all communication depend on the interplay between expection and observation, the waves of fulfilment, disappointment, right guesses and wrong moves that makes up our daily life"(3).

A few of these aspects form the substance of this chapter. It will be seen that society strictly binds its architect by an approved stylistic correctness. Wihtout making major structural departures the forms are played with, and they may ressurect the vocabulary of older forms and use them in new ways. If the technological development is advanced, it stays steady, but the aesthetic exploration was not always so. This lent itself in different directions.

Architecture through literary sources leads the way into the advanced but compact structural Chola temples. In part review and part interpretation the emergence of Early Chola architecture is read through more than theory or the sense of vision alone. Intimations of space, sound and sensation (tactile), form the components of total experience and assimilation.

### III.1 <u>TEMPLE ARCHITECTURE THROUGH LITERARY SOURCE IN</u> SOUTH INDIA

The urge to create a tangible form of worship is common to all mankind. He nurtured upon the scaffolding of his ideas; and a physical or material set of symbols emerged. These sets of symbols were the abode of the local deity which they conceived. To us they are the village or grāma dēvata. Their origin probably dates back to the transition period, from the nomadic to the pastoral; and gradually absorbed in the high culture. However, both the Little tradition and the Great tradition form a part of the Indian psyche. Of birth, life and death manifested the cults of the Mother, Fertility and Death. Localisation gave them identities, and around these or in the periphery there grew the personified forms of village guardians, protecting deities etc. Male and female deities emerged. They were "Ayyanār, Mun Adiyan, Madurai Viran, Karrupān, Pidari etc. There also existed deities of and in, serpents, trees, arts crafts, spirits boundary stones, hills rivers and forests.....!(4). These were forms of nature and livelihood. Tracts of land for example were divided into the sylvan (pastoral), riverine (agricultural, desert (arid land), hilly and littoral (sea The presiding deities for these were Meyon, side). Vendan, Valiyon, Korravai (Kadukal) and Seyon. This was the earliest indigenous religion in South India. With syncretism or concord the incoming cultures saw an edectic absorption and integration of the two. The local Meyon got identified with Krsna/Visnu, Valiyon with Balabhadra, Seyon with Murugan or Kartikkeya and Korravai with Durga.

The growth of temples for these deities can best be gleaned from the Sangam anthologies - Narrinai, Kurundogai, Ahanānūru, Pauranūri,Pattu-p-pāttu and Tolkāppiyam (the Tamil grammar). K.R. Srinivasan writes "Sangam literature in general mentions the existence of megalithic monuments of different varieties and shapes, funerary or sepulchral in character. All these were associated with large stones reflecting a material culture. These erections were usually in honour of the dead e.g. nadukal (stone erection)..... worship of gods, spirit and religious practice before the advent of Brahmanism, Jainism, Buddhism and that of the Ajivika. Worship of local gods and animistic worship of tree inhabiting spirits, rivers, hills or guardian dieties of villages, cities, cross roads, sea shores, ghats, lakes and tanks were similar and parallel to the bhūta and yakśa etc."(5).

The earlier Tamil works refer to a 'mēdai' of platform under a particular tree. On this was a 'kandu' or post representing a deity. The place was called ' andudai-p-podiyal, the common place of worship. References to tall temples of burnt brick are also made and called 'sadu-man ongiya nedunilaikkotam', and architects 'nul ari pulavar - those knowing the silpa sastra. If the above mentioned 'mēdai' were hypaethral there were sabha type temples called 'manram', kottam of the koshta or sala type, koil or royal residence which is used for both the temple and palace. If the temple had tala, its was 'madam' and if it was called 'nagaram' it had four sided, square domical roofed sikhara. The use of different terms or nomenclature indicate the types of architectural plans; and these may well have depended on the medium used. Descriptions are replete. For example a kūta could be flat or domical, a kūdu like the eyes of a doe, or animal. The texts thus reflected the life style and architecture employed. A more precise but brief account follows.

The Paripadal not only speaks of temples but also of the paintings contained in them. A temple of Subramanya in Madurai had a special pavillion called 'eluttumandapa'. It had iconographic descriptions of Muruga, and referred to as 'sevvel'. It also describes the four vyuha forms of Visnu, called 'Tirumāl Irunjolai'. The Madurai Kānci talks of temple painting and ritual showing a sectarian predeliction towards Siva - who was the creator of the five elements and the other gods. The Tamil grammar Tolkappiyam in its lexicon divides the tracts of land different guardian dieties presiding over with them as Mēyon, Seyon, Vendan, Varuna and Durga. Their tracts were mullai, kurinji, maruttam, neydal and palai The Ahananuru has the worship of vrksa resp. and vrksa caitya as abodes of deities. Trees like the Alai (banyan), Arasu (pipal) and Kadamba the favourite of Murugan formed the hypaethral temples of the period. Verses 167 to 369 describe brick temples with the principal dsity painted on the rear wall. Wooden reliefs were placed on a platform, resting on the rear wall. Lines 13-15 state the placement of painted icons and say it must be in stucco, mural or a wooden plaque. These continued till the period of the Pallavas. There is a casual reference to edificies being raised on the mortal remains of four brave Pandyan in the "Purananuru". Soundara Rajan mentions the use of phrases like "cittira madattu tunjiya nanmāran where cittira could connote architecture, sculpture and madam a free standing visible raised structure or a chamber borne on pillars. Kudagarattu could mean a vimana closest to the curvilinear, which is seen much later in the Durga ratha at Mamallapuram"(6).

The Pūram 1 invokes Šiva Ardhanāri wearing the Konrai flowers (Cassia fistula) and the crescent, with Umā on his left and the vrsa to the right..... Pūram 6 which refers to a temple built in honour of a 'Mukkat-Selvæn' is called a 'nagār'. Invocations to deities like Ardhanāri, Tripurāntaka, Kārtikkēya etc. are replete with iconographic descriptions. Pūram 56 and 91 adds to this bounty and is full of the Dravidian Aryan imagery.

Pattina-p-pālai an anthology of the Pattu-p-pattu dedicated to Karikāla Cholan describes Kāvēri-p-pattinam (Puhār) and the temples therein with Tiru and Lakshmi in their gateways.

The Mullaipāţţu, mythological in nature shows us Māl (Tirumāl) weilding the Sankha and Cakra with Srī on his chest (lines 1, 3). The Trivikrama aspect is prominent here. The Purumpanaruppādai also describes the Sesasayi aspect.

The Tirumurugarruppādai speaks of the six 'padaivīdu' abodes of Muruga. A 'nagara' for him was in Tiruvavinankudi (Palani). The Nedu-nal-vādai mentions secular and religious architecture. The commentator states that the sīlpa sāstra followed was Mayamata.

The post Sangam classics Cilappadikāram and Manimēkhalai describe and use terms like koyil, nagaram, kottam and palli and speak of the Āgama and silpasāstra to which architects owe much fo their knowledge.

There is mention of 'padi manram' or temple of the Bodhi tree and they are seen in reliefs at Amaravati

Gopuradvāra, palli-p-pādai are and Nagarjunakonda. often referred to. The first section of Cilappadikaram discusses numerous shrines. Section II makes reference to the sleeping Visnu at Tiru Arangam (Srī Rangam) and the Lord of Tirivengadam (Tirupati). Section XII finds the avatara aspects of Visnu, the Vana Durga, temples and temple building, consecration rites, deities, bali pitham and mandapa, mentioned very casually. Lastly, the Avanti Sundari Katha Sara(?) Section III mentions the worship of Guha by a queen of Rajahamsa at a guhalaya - or cave temple. The 'bhitti citra' showed Guha playing with his parents, and this is seen later in the Thus evidence tells us of Pallava Sõmaskanda panels. innimerable temples, but sadly in perishable medium. The Mandagapattu inscription of Mahendravarman I Pallava clearly mentions the existence of perishable mediums It also introduces to us and modes of architecture. the use of stone as the new structural medium.

What we have briefly seen thus far are only in the nature of an inventory. What is more important is the textual sources that have either direct or indirect influence on architecture. It has also been hitherto observed that there were forms, plans and layouts, all dependent on the object of worship and the method of worship. It is apparent that certain common principles of design and construction were followed by both craftsmen and the priesthood. For ritual, the mode of worship and architecture to collaborate, there must have been a sound It is known that ..... "Sthapatis and background. silpins who belonged to the same guild of artisans had common principles and set methods of design and construction and they worked in collaboration with the priesthood which knew the rituals, the nature of the objects of veneration and the modes of their worship, they together determined the forms of the temples with such modifications as suited to their respective cases, as also the fixation of features of the principal deities and the decorations of the structure, with iconic and other sculptural embellishments. As a result the vastu, silpa and agama texts and canons as described in the sastras were evolved ..... and the creation of temple and the conduct of worship therein codified. Thus the Indian the indigenous architecture remain mind basically and It cannot be subordinated into what essentially Indian. is usually attempted to be made out as Hindu, Jain or Buddhist architecture".(8).

The thought transference was one of memories old. The evolving of s'astra, was born of hard learning and expe-

rience; and these in turn to the gross material form. The human body (sarīra) as gross and the soul (ātma) as spiritual combine to articulate different parts of the The spirit was a 'collective' one, caught by temple. Upon this common belief there emerged the masses. an ordered universe in the temple and codified texts. The developing cultures, preoccupied with moksa led to "notions associated with form and materials of buildings..... paramount is the identification of the diety with the fabric of the temple ..... or identification of the form of the universe with that of the temple. Hence the significance attached to the site of the temple, its ground plan and vertical elevation ..... a sacred mathematics is created, composed of a language of precise measurements, which permits a symbolic realisation of the underlying cosmic ideas. The relationship that develops between forms and their meanings within the Hindu temple is essential to its function"(9).

Kramrisch in her 'Hindu Temple' takes much from Brhatsamhita, Purānas and Āgamas. The concept of 'vāstu purusa' she deals with dates back to the Srauta or Vēdic fire sacrifice which is the all pervading principle. The cosmic purusa and other related deities find place in the vāstusástra, sources like the Pañcarātra, Vaikhānasa and Saiva Agamas by and large show an integrated approach to architecture, astrology, astronomy, maths, line sketching, silpa and yantra karma and as all being allied branches of architecture and both the sthapati and architect must be well informed in them. Be they Matsyapurāna or Mānasāra (Śilpa lakshana) they go into details of origin, function and standards of silpin, sthapati, sutragrahi (draughtsmen), vardhaki (one who calculated proportions) and the taksaka (engraver or stonemason). The sthapati was most important and the expounder of The 'acarya' was the title for sastra to all others. one who was well versed in the sruti and śloka. The takśaka was well versed in carving. All these were connected to architecture, specially sculpture, and thus an image or icon had a place in architecture and was conceived as a part of it. It existed in harmony and However, it evolved in the total integration with it. Chola period as a distinct form with an identity of its own.

The South Indian vimāna followed the dictum of the human form - the śadānga in its vertical segments. The base adhisthāna, foot or pillar pāda, entablature - prastāra neck - gala grīva, roof or spire - šikhara and the finial stūpi. A later inscription(10) includes other parts like the ardhamandapa, snapana mandapa, uttiram, potigai, jagati, pattiga, kantam, kumudam etc. The sanctum sanctorum or garbhagrha with the installed main deity had the ardhamandapa directly in front of it, with an occasional antarala or vestibule in between. The adhisthana is made up of further divisions upana, jagati, kumudam, gala, kampa, gala and pattika. There may be an upapitha below the adhisthana. The walls carry the sthambas, devakoshie and torana . The torana is found over the devakoshta as a decorative feature. The Manasara mentions four types of torana, the patra, puspa, ratna and citra. They are the crescent arch foliage, when a makara is added they become a makara torana; when they undulate five times and have either a swan or bird form they are citra toranas, the floral is puspa torana, while the ratna type may carry vidhyadhara, bhuta, simha, yāli, hamsa and gana forms. They carry flowers and precious gems emerging from the makara mouths. A deva may be placed centrally in the torana (figs.250,251). Similarly the sikhara which is the superstructure is classified according to its size, floor, shape and design. Depending on their storeys tala or bhūmi they are ekatala, dvitala, tritala etc. Their shapes are caturasra, vrtta, caturasdīrgha, hasti or gaja prstha, vrttāyata, sadakona or astāsra. The Mayamatam, Isani Sivaguru devapaddati and the Manasara obviously were the architecture lexicon. The kriva and jnana pada of the Agamas The Kāmika and Kārana Āgamas were also in usage. were important for iconometry, iconography, rituals and The relevance of these texts to us is architecture. not in their usage 'in toto' but they existed as sound cencepts from where the architect drew his fundaments He converts his information to a form that is from. an application and creative possibility. The very term Manasara means mana-measurement and sara-essence. The The key is 'essence', which essence of measurement. is altogether different from 'rote'. This leads to broad norms within which the architect functions. When one sees the chapters 14, 15, 16 & 18 they deal with upapitha and adhisthana, pillars entablatures etc. Chapters 46, 47, 48, 49 and 50 deal with abiseka, adorning of gods and men, Brahma in sculpture, Lingodbhava, and seated forms resp. The Visvakarma class, sthapati, sutragrahi, vardhaka, taksaka were well versed in these. Those with such precise knowledge and information used them with insight. They were visionaries in their own right.

# III.2 THE BASIC CONCEPTS OF DRAVIDA ARCHITECTURE

The village gods and higher gods caused the development of Dravida architecture. To honour and dedicate and propitiate are still profound human impulses.

From the primitive society of non-iconic worship which saw its gods, godlings and spirits in nature we come to the worship of posts and stones placed under trees. Often times the tree itself could be a symbol of, or embodiment of some spirit benevolent or malevolent. The Vēdic Āryanism was integrated in the southern soil which was often scattered with sālagrama, linga or Vināyaka amidst a paddy field or under the tree by a riverside. A favourite tree often became an object of worship and this tree got integrated into the higher tradition as a sthala vrksa of the temple complex, later.

The quasi religious practice of which Longhurst writes, does not relate to any particular diety, "in ancient India the ancestor worship or more broadly the cult of the dead, formed the staple of religious belief of the original inhabitants"(11). But apart from this there existed other forms of worship. The 'cult of the 'manes' for instance was a link between the past and present. Of this we have the concept of 'viran or virulu ' the heroes, who died valourous deaths. The received worships and were assumed to be spirits. In propitiation arose symbols like trees magic circles, stone rings, cromlechs

and dolmens over their graves. These were the first material physical objects. Essayist John Buchanan writes that this class of 'virika ' were both demonic and divine and thus became the spirits of the border land dividing the heaven, earth and nether worlds. N. Venkataramanayya states that "we are introduced to a phase of religion which exhibits a tendency to obliterate the distinction between the demon and the diety. The obliteration of difference becomes complete in the cult of the village deities. A large number of deities begin their career from the confines of a graveyard. In the course of time their origin is forgotten and they are established as powerful deities(12).

Dr. Elmore in his 'Dravidian Gods and Hindu Religion' says these gods are human beings returned to earth. The ideal of 'power' plays a role here, because they are the embodiment of it. This is confirmed by the presence of temples by the smasana or cremation ground. Manimekhalai refers to one such Kali temple near it. This is further corraborated by the hut urns, hut shaped urns with the ashes of the dead and they often resemble a class of temples dedicated to the village deity.

The dolmens and shrine of grāma dēvata show chamber, additional mandapa with or without an antarāla roofed by three roughly hewn flat slabs of granite. The ground plan and superstructure were similar. The gramadevata shrine was often oblong. Lack of evidence gave rise to a lot of speculation, of which Longhurst postulated the stupa theory, from earth mound to brick. This is more funerary than sectarian. He says the stupi is related to the stupa, the tree planted over the stupa becomes the chattra which in due course became the pyramidal vimāna. This chattra concept is seen in the 'Sūdalai Mādan shrines' of Tirnelvely. The Drāvida temple perhaps borrows from all this (13) and is part of a pan Indian tradition.

The period of structural temples, crusaded by the Pallavas is the key to our understanding forms both past, present and future of that architecture. This is the period of renascence in art, architecture, literature and religion. From Buddhist caves which replicate wooden, domestic civil architecture under the Satvahana and and from reliefs at Sānci, Bhārhut and Āndhra; it is possible to derive the architectural vocabulary for the pan Indian period and also to show its stages of mutation and evolution into different types. All of Dravida shared a cultural heritage, a connected history. "Till at least the mid tenth century A.D. a cognate expression in art

and architecture as well as in iconography ..... are distinct (but) not totally unrelated to corresponding traditions of contemporaneous provinces in the north (14).

Stone was not only an abundant available resource but also happened to be most non-perishable. The 'permanent' quality was perceived in it. The use of it had permeated deep in the commemorative worship, and naturally led to its being of funerary association. Some times scholars rightly feel that such association could be deterent for its use in religious worship. When the Buddhist used it, it was "for rock excavations and in the encasement of brick stupas .... they could do so since stupa as in essence act as memorial for the departed masters". Thus, the Dravida vimana has its beginnings in the dolmen and boath. The boath specially was indigenous to South India. "It is (perhaps) the superimposition of the boath on the dolmen and further subject to Buddhist influence, - which is possibly the seed of the pre-Pallava temple"(16).

From the premise of speculation we move on to the most relative source - the study of reliefs in Andhra. The rudimentary elements which contribute towards plan, elevation and decoration are traced in these reliefs from Amaravati, Nagarjuna Konda, Jagayyapeta, Ghantasala etc. In the narrative reliefs of the Jātaka are carved the architecture preceding the Pallavas and in which lie the source of all later architecture. Vrtta, ayatāsra, capa and kuta huts are represented. The torana , pillars, stupa and caitya temples form parts of the cityscapes. The secular hut types reflect the gradual evolution of it into the sikhara of the later temples. The Mithavindaka Jātaka (fig.1) shows the vrita: kūta, ayatāsra sāla, gajaprstha and capa types. Each of these types finds its way in the South Indian vimana at different times and in different parts like the kuta, sala-panjara of the hāra enclosure etc. Similarly the Mahāvana Kūtagārasala of Vaisali from Amaravati (fig.2) has the capa vimana and gavākśa arch in the front. The gajaprstha vimaña takes three stupi on its ridge. There is a torana mukhapatti with a small flat finial that frames the front end of the śikhara. To the left is also a vrtta caitya. Apsidal structures raised above the ground by five pillars here, are called in Tamil maccudvidu or paran and exemplify the 'harmya'. The Sangam refers it as 'aramiyam' of a multistoreyed temple which suggests its position as always in the top section. There is mention of a 'nila murram or veya murram' which mean moonlit or non-roofed terrace and could suggest an open courtyard with parapet. A relief (fig.3) showing the city gate "itself has a sala

structure with a row of finials on its ridge, with two projecting pañjāra cages and flanked by the kūta and śāla. This is the likely source for the hāra enclosure.. which acts as railings around each terrace storey of later South Indian temples"(17).

The Amarāvati reliefs in the Madras Museum show components like the vēdika, kapōṭa ālinda, nāsika, kūtagrha with astāsra śikhara stūpi:, kūtagāra etc. (fig.4), circular stūpa caitya, domical superstructure with gavāksa at cardinal and sub cardinal points. This is found in the rudra and vr<code>t</code>ta candra śikhara. later (fig.5). Extant use of astāsra śikhara for kūta of small vimana are seen and become the later Visnuccanda astāsra śikhara and carry the four mahā nāsika (fig.6).

Nāgārjunakonda reliefs, a century later show us the āditala of a vimāna (fig.7). A sõpāna leading to structures raised by free standing pillars with two square caturāsra tala are seen. The dvitala shows projected nāsika with caitya arches, vēdika and square kūta. "Such instances indicate ...... secular prāsada ..... became temple prāsada ..... having successive storeys diminishing in size. Each floor a ..... variety of chambers (kūtagāra, simha panjāra, śāla, harmya etc.) each with seperate roof, these ultimately resulted in a form resembling the Dharmarāja at Māmallapuram(18).

Jagayyape ta reliefs show sculpted figures by the pillars which perhaps become the dvārapala (fig.8). An interesting aspect is the sabhā-sikhara roof from gannati. This is rectangular and crowned by two stūpi, this is rare, but one can find them in later temples dedicated only to Natarāja and the Saptamātrika.

The Ghantasala relief (fig.9) shows on the wall sections between ghanadvara small slight projecting square windows. The bhitti or wall has a continuous upper kapota alligned with the kapota of the prastara part of nasika projections. This makes it appear more as a tala than a griva for the sikhara placed squarely on it. Such a feature is seen in the Mahākūtesvara in Malegitti and the lower Sivālaya in Badāmi. The Pallavas changed it slightly by raising the grīva above the hāra of the topmost tala.

## III.3 EARLIEST EXAMPLES OF DRAVIDA ARCHITECTURE - HIGHLIGHTS OF THE PALLAVA ARCHITECTURE

History has not been kind to us between the post-Sangam and pre-Pallava years, and we are left with a dark phase - the Kālabhra interregnum. Around the mid fifth century A.D. this historical eclipse faded, but devastating those splendours of the perishable medium highlighted in the Cilappadikāram and Maņimēkhalai. The political change saw the Pallavas of Simhavisņu line, and the Pāndya of Kadungon line rising out of these ashes. The rulers-of Tondainādu and Pāndinādu were resurrected.

Tondainadu in time extended upto Tirucirappalli and Simhavisnu was extolled in the Mattavilasa Prahsana, whereby he had vanquished the Chola, Pandya, Kalabhra and the Simhala (19), while the Udayendram plates of Nandi II shows his predeliction for Visnu. On the other hand it also reads that Simhavisnu's mother was of Jaina leaning. This is testified by the existence of a Jīna Vardhamāna temple in Kanci then.

The development of architecture henceforth owed much to the enterprise of Mahēndravarman I (580-630 A.D.). Inscriptions and examples of rock cuts reflect the urge to create with stone. The Mandagapattu inscriptions gives us evidence of his varied taste and pioneering efforts in stone. His biruda included, sankirņajāti, mattavilāsa, guņabhāra, citrakārapuli and Kurrambu 1n Sanskrit and Tamil. His more aggressive spirit is reflected in his initiating the Pallava-Pāndya-Cālukya feuds, all aimed at a small delection called Chola. The period was one of literary, religious, artistic and political ferment.

Narasimhavarman I succeeded the throne around 630 A.D. His conquest of Cālukya Vātāpi(20) and Simhaļa under Siruttondar are hallmarks in Pallava history. 13 years sway in Cālukyan domain doubtless to say left an indeliable mark in the culture and arts of the people. This is important because Narasimha's contribution to rock cuts and sculpture owe much to the Cālukyan connection. Thence, it grew from the shores of Māmallapuram into the hinter land, a cluster of structural architecture.

There was paucity of art activity between the periods 672 to 700 A.D. of Paramēsvaravarman I. The Gaņēsā, Dharmarāja, Rāmānuja and the completion of Draupadi ratha are attributed to him. A staunch Saiva, he introduced cult images in the sanctum - as the rear wall bas-reliefs. Sōmaskanda was introduced and became a popular feature. It occurs in the Mahisāmardani maņdapa and upper tala of Dharmarāja ratha. K.R. Srinivasan opines that even the Durga image in the Draupadi ratha was popularised from the time, and the period saw for the first time the use of granite slabs for the vimāna. Such attempts are seen in "the Vidya Vinita Pallava Paramēsvaragrham at Kūr am"(21).

The Rajasimha phase saw both peace and spurt of temple building at Kānci, Panamalai, Nāgapattinam, and the Shore temple at Māmallapuram.

Mahēndra III and Paramēśvara I added further to the Kāñci Kailāsa(22). There are scenes of historical sculpture in the Vaikunţaperumāl at Kāñci showing wounded soldier (Mahēndra III) being brought to Rajasimha and his queen. This was the battle with Ganga Srī Puruśa(23).

Nandivarman II had a long span of 65 years and witnessed the period of Rāstrakūta-Pallava alliance between Rēva, daughter of Dantidurga and Narasimha III. He built the Vaikunta Perumāl, Muktēsvara, and Mātangēsvara in Kānci. Here are found historical narrative sculptures too.

The accession of Dantivarman began the second phase of the baroque temples like the Sundaravarada, Kailāsa and Vaikunța Perumāl at Uttaramērūr etc., and then on there was a decadence.

A few temples of their periods will be taken to highlight those features that continue to dominate, or fail to change in the subsequent  $Ch\bar{o}$  temples. Being the pioneer trend setters this section needless to say is partly review and partly a tribute. They will show what they are while the subsequent chapters what was done to them.

# III.4 THE PERIOD OF PALLAVA CAVE TEMPLES. (580-630 A.D.) (THE MAHENDRA PERIOD - PHASES 3)

There are 10 cave temples in this period(24). The general plan is simple. These are single celled, pillared verandahs with a shrine cut in rear or side walls, depending on the facade. For the north or south faces, the shrine cells are cut laterally so as to face east or west. For the east and west faces they were cut behind the mandapa. These pillared halls were open or closed with flat or sloping roofs with a shrine in the centre behind. the proportions are in 'proximal and distal' sections, which are the maha and ardha mandapa . Most of these temples have four pillars and pilasters. The two exteme columns are pilasters 'in antis' and the two intermediate ones are pillars. Parrallely there This also separates the most is a similar inner row. bare mahā mandapa from the ardhamandapa. The shrines were generally excavated in the hind walls and were also more than one sometimes. The number of shrines and their disposition are in accordance with the pillars of the mandapa. Each shrine opens into a corresponding inter columner space - 'ankana' between pillar and pillar on one hand, and between one pillar and another on the other.

The architectural elements in these temples are minimal. There are massive pottika, kapota of the crude type, for the overhanging ledge above the beam of natural rock. Only Dalavanūr Satrumal Esvara has a flexed kapota with kūdu arches (fig.10), while Pallāvaram Panca Pāndava has a crude one.

One is not impressed by the not too pleasant effect of the characteristic squat, unwieldly massive pillars. The top and bottom bases are cubical and called 'Saduram ', while the mid section 'kattu' is octagonal. Corresponding pilasters are seen in Mandagapattu, Vallam and Siyamangalam. There are also tetragonal shafts. The palagai a rare feature appears above the top saduram and below the These are plain, but Dalavanur has lotus petals potika. on the underside (fig.10). Some temples have plain while some are ornamented with circular lotus saduram medallions (fig.10). Besides this makara, kinnara, matanganakara, floral-foliate scrolls, hamsa, and patralata type of medallions are found. The Siyamangalam Avanibhajana Pallavēsvaragrha (fig.11) has a bas-relief panel in place of the medallion on the top.

Massive pillars support massive corbels with a curved or bevelled angular outline. The underside have a series of roll mouldings taranga pattika or a flat median band patta, which architecturally bind the moulding. Siyamangalam Avanibhājana Pallavēsvaragrha and Tirucirāppalli Lalitānkūra (figs.11,12) have additional taranga and patta.

The only form of sculpture we see at this stage are dvārapāla on either side of the facade of mandapa, or enclosed inside sthamba tōraṇa, or on either side of the shrine entrance (fig.100). Some caves do not have them. The other examples of sculpture are in the Lalitānkūra at Tirucirāppalli and Trikkaļkuņŗram Orukal mandapam, they are the dvārapāla and the Gangāvatāraṇa and celestials in vismaya and katihasta in basreliefs respectively (figs.101,102).

The Mahendra style also has its IInd phase. This period shows the kapota with kudu arches over the shrine entrance, minus figures in the gada cavity. A very noticeable and characteristic change is the relative thinness of the pillars. Looking at them, they are attributable to the Early Māmalla phase on stylistic grounds. There are d $\vec{v}$ arapālika very similar to those in the late Draupadi ratha at Māmallapuram. These were perhaps the earliest examples of female door guardians. There is a gradual increase in the sculptural iconography.

The Singavaram Ranganātha temple also shows a four armed Mahiśāsuramardini in a niche beyond the facade, flanked by a devotee in adoration and another cutting his hand (fig.103).

The third phase yields no relevant information to our study.

A summing up tells us that a tentative, unweildly and crude beginning, was due to the lack of technical skill in the manipulation of the new medium, 'stone'. The squat, massive and heavy pillars show that the qualities of the medium were as yet unknown, and the craftsman untutored in its manipulation. The second phase shows more relaxation - this is reflected in the slender pillars, the introducing of a finished kapota, kūdu and carving of the more subtle female form. The pillars gradually transformed by using decoratic medallions. The relative change in pot ka conformed to the size of the pillar. The taranga and curved profile pottika were the Calukyan influence, but transient, the pottika with angular profile sustained.

A notable feature is the absence of the rock cut linga and its pedestal. These are present in the Muttaraiyar and Pandyan idioms however. A small platform, rock cut is present over which the deity was placed(25). The absence of the pranala justifies this. This absence of pranala is very noticable but only in the Mahendra phase, but in all rock cut and structural temples of the Pallavas. Literature makes mention of abhiseka, but these were possibly conducted on snapana bera (26). The Muttaraiya and Pandyan temples didn't have pranala proper but they had a channel cut at the base of the avudaiyar.

A limited repertoire of sculpture begins at this juncture. The Gangāvatāraņa bas relief in the Lalitānkūra at Tirucirāppalli and gradually the increased Sōmaskanda in Siva temples, and Viṣṇu or Durga during Paramēsvaravarman period are seen. In sculptures the Pallava dvārapāla are two armed and in profile or frontal view. Dvārapālika are seen for the first time in Dēvi shrines, while dvārapāla in Viṣṇu shrines, minus their clubs.

#### III.5 NARASIMHA I 'MAMALLA' PHASE OF CAVE TEMPLES

Mahēndra I, Pallava architecture Independent of saw a transition. From relative primitivity, it evolved into a youthful challenge during Narasimhavarman I (630-638 A.D) Significant new features in the nature of plan, phase. moulding, ornaments, entablature, facade and column types occurred. This phase is further subdivided into the Narasimha I Paraméśvaravarman I, Rajāsimha - Nandi II also called the Ist phase and Later Pallava phase or IInd phase from 706-980 A.D. In the unifinished Cave temples, one can still see the full model of the Dravida vimana of the sadvarga and astavarga types.

The Narasimha I examples can be seen from the Koneri and Varaha Pancapandava and the Trimurti cave temple all in various stages of completion (figs.13,14,15,16). immediate observation it is seen that the central, On extreme and shrine fronts are projected, and two intermediate ones are recessed. We are also struck by a set of five dvarapala, all different from each other. This marks the beginning of the Mahendra Mamalla transition(27). On either sides of the shrine entrance cut in shallow niches are fine bas-reliefs of dy arapala in pairs, but differing iconographically. This is the earliest attempt at deliberate and conscious sculptural 155

display. The sthapati had so coordinated that he placed his sculpture in the carved out architectural niche of projections and recesses.

The Varaha mandapa (fig.14) also has the front mandapa The facade has a row of two with a shrine behind. pillars and pilasters with an oma moulded adhisthana cut at the base(28). The arrangement of hara is important; each harantara portion, connecting passage from one sala to another is an avarana or hara of shrines forming a One has to lift his eye below the covered cloister. coping where the cross beams end, to notice this. The coping is like a curved roof emphasised by a finial Such extension of the hara members over the on top. prastāra is the first of its kind; it is seen in the Muttaraiyar Nārttamalai VijayālayaCholisvaram (fig.41). The projecting shrine cell also has its front walls with four pilasters. The inner two, flank shrine entrance and outer two are almost cantoning pillars. And between them are sunken niches with dv arapala in semi-profile. Similar ones are seen in the side wall. The visible side of the mandapa projecting from the rear wall suggests the attempt at monolithic rock cut.

The Trimurti cave temple (fig.16) in its elevation and frontal aspect from the adhisthana to the first tala are

all placed contiguously, with the central section standing just a little forward. This is an example of the trikutacala or vimanatraya. This is seen in a slightly changed form in the Irrukuvēl, Mūvarkoil. The Trimurti has a limited availability of architectural space, which has narrowed down the niches. If this posed a problem to sculpture, the limitation was overcome by slightly turning the sculpture, and placing it in 3/4th profile. What came as a problem became one of the accepted norms, specially exploited in the Early Chola period. The southern most Durga shrine has a contoning pilaster with tarangapottika, a sopana, and pilasters at corners. This is given a more substantial form in the elevation of the Draupadi ratha, minus the prastara and sikhara. This is a laudable architectural attempt assigned to Paramésvara I (also called Isvara). The relevance of frontal elevation and facade was recognised as a special factor because it determined the impact it would have on the Narasimha I enlarged and improved also the devotee. qualitative and quantitative aspect of sculpture.

The first or earliest attempts in the afore mentioned cave temples was an attempt at manipulating the medium to cause permanent and grand structures. However, the massivity of the rock medium was overwhelming and

The modulation had to take place. Awareness uncouth. of mass was a subconscious recognition; and its moderation for example began to be apprehended as early as the Mahendra I phase and rectified to some extent in temples as Dalavanūr (fig.10). The quality of material used in structures called forth for a compression, and this had not yet been recognised. It is also seen that the earliest preoccupation was with the interior, and so the outside was neglected. It was in the IInd phase of Mahendra that the importance of the exterior was explored and attempted. By use of ornament or decoration the process of reducing the awesome took place. The pillars and pilasters and the kapota were the right places to start with. The Māmalla phase elaborated upon these with some success. Massivity was further reduced by the cutting out of stone into more slender and ornamented pillars, without affecting its stability. Furthermore decoration was a means of not just relieving the boredom of bare spaces, but also involved the creative and aes-It assumed the function of engaging the thetic urges. spectators attention to the finer aspects of structure, 'to seize and hold' is its quality. It also added or reduced the emphasis to distinction.

A very important feature seen is that from a bare manasūtra, a very rough rhythm is created in the facade broken by pillars and the kapota with kudu in eugal intervals at Dalavanur (fig.10) in the Mahendra I phase. This is also seen in bare space, carved space, pillar space This awareness of space and and pillar arrangement. structure began to be gauged by distance and height in the Koneri, Varaha mandapas and the Trimurti cave temple. Awareness of rhythm, repeated movements of moving back and forth in space visually and physically became a reality. The walking through pillars or collonades, or the vision as the eye traverses the facade with patterns of alterations - in projection and recession come into being. The relatively straight manasutra change into angular projections and recessions indicating movement. The theme unfolds sequentially, and at such crucial junctures emphasis is created by sculpture. These are again form and texture that are controlled by curves and human qualities to counter balance the angularity of architecture.

### III.6 HIGHLIGHTS OF PALLAVA ARCHITECTURE (CONTD)

This section covers the major architectural components in three parts. Structural and functional intentions, scale, order, rhythm, proportional relationships, spatial correspondence, shapes, enrichment of form and ornament are some of the features seen here. These simultaneously show traits and their change in their lifetime. The three sections are :

- i) Adhisthana (moulded base)
- ii) The Ist Tala (Walls of the Vimana)

iii) The Upper Tala (Superstructure)

### i) THE ADHISTHANA (moulded base)

The adhisthana or moulded base formed the lower most section of the temples. The most popular and simple one is the padabandha (fig.17). Some of the earliest cave temples from the Mahendra I phase do not have They are merely elevated or a particular adhisthāna. raised platforms. Wherever there are, they are the pādabandha type. The components of this adhisthana are the jagati, kumuda, kantha and pattika. Sometimes there may be a upana mahāpatti. Some random examples can be seen in Dalavanur, Varaha and Koneri mandapam, Trimurti cave temple etc. (fig.10,13,14,16) These are basically horizontal rectangular strips mounted one over the other, their function is obviously to provide a steady base, to carry appropriate weight, the walls and roof.

The adhistham in Mamallapuram are carved out only in five instances, in the Draupadi, Arjuna and Dharmaraja ratha (figs.18,19,20). The first two are padabandha and the latter is kapotabandha, which is used for the first time. The name itself suggests the curved in cornice or flexed overhanging cornice type. This only varies from the plain padabandha in this aspect. These are the simplest constructions where the rock are carved out in rectangular horizontal slabs. These type emerge from the wooden prototypes for support; however, their function for support is not important in the rock cuts, and perhaps occur from force of habit. The Dharmarāja relieves the monotony of lines by the use of kapota above the gala and urdhvakampa. A further elaboration occurs in the kantha vajana section which have widely spaced vyāla or elephant figures. This idea also has its sources in the engraved metal plates used at critical joints in wood to give it more support; but its recreation in stone is again habit. There are holes in the Draupadi and Arjuna ratha perhaps to receive vyala or elephant These two ratha also have an upapītha, which busts. It adds to the elevation and enhances is prominent. the height of the rathas, being just a plain additional basement below the jagati without kumuda but having upana, kantha, pattika etc.

The padabandha is seen in the Kuram Siva temple. The upapitha which is also present uses granite slabs of varying dimensions and bricks for the upapitha. The use of vertical and horizontal slabs of relative thickness, and size aims at a sound base.

The Rajasimha phase continued the use of pādabandha. The simplest surviving example, Mukundanāyanār in Māmalla puram the pādabandha adhisthāna supports walls with padas minus the vyāļa which is unique. The temples at Kānci - Airavatesvaram, Muktēsvara, Mātanģēsvara, Vaikunta Perumāļ (fig.21), and the Kūram temples of Perumāļ and Vidyavinita Pallavēsvaragrha have the padabandha. They are singularly lacking in ornamentation, but are bold and austere. The mañcabha dra upapītha adds partially to the severity of the base.

The Māmallapuram Alaivay-k-kōil sees a variation of the pādabandha. In place of plain rectangular slabs there is a very prominently moulded padmōpana, a bold tripatta kumuda and leaping vyāla frontals at the corners of the mahāvājana and kantha moulding. This is characteristic in the Rajasimhēsvaram of this complex (fig.22). The Ksatriyasimhēsvara also has a similar one with bolder members and greater embellishment. We find the corners dressed with vallimandala scroll in the padmōpana, the tripatta kumuda show padmadala on the upper face and ratnapatta on the medial face. The Olakkanēsvara at Māmallapuram and Tālagirīsvara at Panamalai have granite bases (figs.23,24). They are characterised by recession The latter uses the large padma base and projection. in lieu of the jagati and tripatta kumuda. The medial face has ratna padma. The bevelled faces show urdhva and adhah padma decor. The kantha has galapada with elephant frontals at the corner. The Olakkanesvara shows above the kapota a row of evenly spaced vyala figures both in the upapītha and adhisthāna (fig.23). The Kanci Kailsanatha(figs.25,26) saw a culmination in the saturated ornamentation of its whole complex. Geometric thus symmetric mouldings offer framed spaces for filling up. A very high padabandha would otherwise appear out of place, if not embellished. The jagati face is divided by galapada, particularly in the corners at its projections and recesses. The flow of the scroll design reduces the angular hardness. It also forms an ornamental frieze framing, buta. with animal, human and demonfaces, gambolling, dancing, singing and carrying weapons. This dynamism is balanced by the cubical and circular rosette borders on its upper side. The tripatta kumuda is clasped on either side by the padmadala over the upper and lower bevelled faces. The medial vertical face have alternating foral and rescues of ratnapatta motifs. The prominent kantha over the kumuda has galapada

reinforced at angles by elephant heads which support the projecting pattika above. Dynamism and movement caused by such figurative ornamentation reduce the harsh angularity; however, it also suggests that while causing this, the sculptor's mind and energy could have run riot, leaving us with more than what we desire.

The IInd phase of the Pallavas or the Tondianadu style between 800-900 A.D. makes a significant departure from the Nandi II or Rajasimha phase. The mancabhadra uppitha is continued, using elegant vegetal decoration specially on the faces of the galapada and rampant lions on the A new variation of the kumuda is called the corners. These are straight or curved fl uted lines, katakāvrta. carved vertically on the horizontal medial band, with the urdhva and adhah padma . The Sundaravarda at Uttaramerur is a variation of the pada and padma bandha, standing over an ornate mancabhadra upapītha. The carvings are chaste, the galapada enrichened by vegetal motifs which share in the grandeur of the rampant lions in the corner in the upapitha. In place of the jagati is the mahapadma with flowing cakravaki and vallimandala in the corners. Above the katakavrta kumuda and adhah padma are vyāla in profile in the kantha vajana. The corners show makara . The vyala in the inner corners

are sometimes replaced by squatting bhuta . "This combination of the two types is a bold and effective innovation by the designer"(figs.27,28,29). Our last example is the Tirukkalkunram . Bhaktavatsala (fig 30). Here the adhisthana has a fairly big jagati, but a very short and plain pattika over which is an elaborate adhah padma -A narrow kampa which almost becomes a padmopana. and short gala bound by a similar narrow urdhva kampa is seen while another padma vajana and prati or ksudrakampa enclose it from above. Mouldings like those of upapitha are also used here.

Thus far it is seen that using the same kind of adhisthāna the architect and sculptor tried to create variations by ornament. There was no structural change, and the basic pādabandha continued. It was left for the others to bring in changes in this architectural component.

## ii) THE FIRST TALA(walls of the vimana)

Rising above the adhisthana are the walls of the vimana. This section from the adhisthana onwards is called the Ist tala. Generally of sandstone and sometimes granite they are any artist's delight. The joy of architectonics finds its source in an awareness of space. "Space is liberty to movement. That is its value to us and as such it enters our physical consciousness". Architectonics is realised like a montage upon these large fields of The treatment of wall, plays a major role in stone. the formation of style, because upon its empty field expressed the artist's creative sensibility. The is availability of space, the nature of space to some extent guide its articulation. The walls use pilasters and pillars. These columns began to show different types as early as Narasimha I phase. The Varaha mandapa showed vyāla based pillars and pilasters. The facades show simhapāda pillars. The Mahendra Narasimha I types became slender, from geometrical symmetry they became curved and faceted. The embr yonic seed floating aimlessly found a place during Narasimha I's reign and began to be nurtured. This nurturing is seen in his cave temples and monoliths at Māmallapuram.

The respective members of fully developed pillar and pilasters are the kalasa and its moulding saduram , kal, tadi, kumbha, padma, palagai, pali, virakantha and pottika all conjoined to one another organically.

The devakoshta, niches for the deities are also important features of the wall, they combine space framed and enclosed which enshrine divinities. Their placement and ornamentation contribute to the visible formation of style.

The pillars and columns found expression in relief as early as the Nagarjunakonda Amaravati phase. Just as the complement parts of the South Indian vimana are seen, so too do we see the pillars with purnaghata bases. Ribbed ghata or amalaka, shafts carrying kalasa with pali and palagai were common. These were crudely expressed in Mahendra I period (fig. 31), and also improved from there on from unadorned stumps to ornate ones. They were generally divided into three parts, the saduram on the top and bottom and the kattu in the middle. The kattu were fluted or had bevelled facets. The saduram was topped by a pottika which was a massive block with angular or curved profile, proportionate to the pillars; called patta or taranga pottika. The patta may or may not have meandering lotus or creeper This bevelled corbel or pottika became the design. rule for Pandyan and Muttariaya temples, while the taranga pottika was transient Calukyan influence. The angular corbel sustained.

The upper saduram also gave way during this phase and the kattu extended into a padmabandha, palagai and pottika. The śastric convention however, maintained that the termination beyond the capital 'Virakantud should always be square. We are also aware of the medallion scheme followed in some of the cave temples that need not be discussed again; but they are a variation of saduram or square section of the pillar. The pilasters were usually in consonance with the pillars.

The Narasimha I Mamalla phase saw remarkable changes. The săstric Brahmakanta, Visnukanta and Idrakanta type of pillars are used with the pali formed mandi and ghata for the first time. A new innovation was the elimination of the basal saduram. It is at its earliest replaced in the Varaha mandapa (fig.32). by the Simha vyāla "These newly introduced column types are in part generally related to those in the Deccani caves at Vākātāka, Traikūtaka, Maurya, Kalacūri ..... from 540-600 A.D.... "(30). Tall and slender the Māmalla pillars are a take off from Mahēndra pilasters or kūdyastambha. Faceted with sixteen sides and circular they have corresponding pilasters with four sides. The changes that have occurred are in the embellishment and motifs like the madhya bandha, padmabandha, patralata or kodikkaruku on the corners of capital members. The pottika in keeping with the slender pillars are smaller and proportionate.

The taranga pottika continue till about Paramesvara I. The Koneri mandapa (fig.33) marks the transition from the Mahēndra to Māmalla style and thus combines both features. The columnation is wider and gets set for all the later temples. The uttira becomes thinner and thus carries a relatively proportioned taranga pottika. The mukhamandapa shows pillars and pilasters of different shape width and features. Ornate with capitals and fluted corbels, they stand on unfinished 'oma'. The mid shaft has a madhya bandha, and the top padmabandha decor with padma patra above has a fine kodikkuruku. The lower part has muktasāra (mālasthāna). Above the padmabandha the usual parts of kalasa, tadi, kantha, kumbha minus the palagai and padma are seen. Sixteen facets come above the padmabandha and they preserve the cylindrical form because there is only a touch of flutings. With an eliminated palagai, these pillars and the new patta on the pottika mark the transition (fig. 30).

The inner pillars of the Mahisasuramardini cave temple mark the characteristic Māmalla style, for they herald the vyāla bases. They show padma and madhya bandha the mālasthāna etc. The capital has the padma and palagai, the pillars are circular and fluted like the split bamboo 'Sundobhēda'. The oma of one southern most pillar has a bhadra pitha with mouldings. The pottika does not have taranga ornamentation.

The Varāha:maṇḍapa, more or less follows these forms, but 'in antis' are found pillars and pilasters with 'lotus bases' - padma pītha, over which are sejant vyāļa squatting on hunches. The vyāļa are almost half the height of pillars adding to proud regality. The shaft above is decorated with mālasthāna and padmabandha. The pottika is taraṅga without a median patta. An observation is the facades were conventional but interior pillars were subject to experiement.

This trend was carried over to the monoliths at Māmallapuram. The pillars were simhapada. Visnu or Indra kanta in the mukhamandapa, with corresponding half pillars of simhapāda Brahmakanta. The pilasters have Brahma and Visnu kanta types. The pottika was taranga. The wall sections were left either plain or with slit niches, which are shallow and often carry figures.

The Arjuna ratha has elegant vyāla figures over a palagai supported by Visņukanta pillars in the salilantara sections. The west side has pillars supported by squatting lion. The Bhīmaratha also shows the Māmalla pillars, while seen so the Dharmarāja has simhapāda pilasters. It is in the Gaņēša ratha we see beaked vyāļa figures. The Rajasimha phase shows the emergence of the vyāļa and nāgapāda pilasters specially at corners.

The Olakkanēśvara has vyāļa based pillar pilasters and the recessed walls with gajapāda. The rampant vyāļa are eyecatchers. The rearing vyāļa and nāgapāda are seen in Alaivai k koil, while the Gaņēša and Sahadēva ratha show in their mukhamandapa gajapāda, nāgapāda mēšapāda, bhūtapāda motifs. By the time we reach the Kānci Kailāsa the cantoning pilasters carry rearing vyāļa. Brahmakanta define main niches, while the karna show vyāļa and simhapāda. The pillar shafts are both sandstone and granite. These are all seen more or less alike in the other Pallava temples.

During the close of Nandi II's reign some temples like Uttaramērūr Sundaravarada; Kailāsanātha and Vaikunta Ferumāl near Kānci, and the Saptamātrika and Varadarāja Ferumāl at Alambākkam in Cholanādu show some significant departures. The walls have Brahmakanta or Indrakanta pilasters and pillars. The pottika was changed it was bevelled and of the tenon type.They show a penchant for arabesques and motifs on the padmabandha and mālasthāna. The Kailāsanātha has exquisitely fluted gour d like ghata . The padmabandha was slightly recessed and the kalasa above runs smoothly into the line of the shaft. The ardhamandapa has recessed padmabandha and kalasa with inwards curves making it vase like. This gets a unique identity and articulates itself in the Early Chola pillars with unsurpassed distinction (fig. ). The Varadarāja Perumālin Alambākkam is called the provincial example partly in local Chola and Pandyan style. The pottika is in a mixed idiom. It is however, in the Candramaulisvara in Brahmadesam we see that the carvings come closest to the Early Chola examples. The pillars and pilasters have their upper shaft, malasthana delicately and sparingly carved. Corbels have a median patta and are Late Pallava in character.

The pillars and pilasters were more or less fully evolved and when we confront them in the Chola temples they are already expressive of an excess which was being resolved by effective reduction but precise accentuation. The nature of emphasis and articulation began to change.

The devakostha, niche for the image was a special place, imbued with sancity. Placed on the walls between pilasters they carry divinities, semi divinities, noble personage

172

or the major deity in his various forms. The earliest are bare, shallow, rectangular recesses with no mouldings. The emphasis was perhaps on the enshrined deity itself. Some times two split pilasters supporting a pottika and palagai may accompany or frame it. The Mahendra I cave temples have the two cut recesses to receive dvara-They are 'sham niches' because they lack some pala . of those features which make up the devakoshla, Frame of jambs, sills, and torana topped by lintels, pilasters form a full devakoshta. The Varaha mandapa has deeper sunken niches carrying d varapala in semiprofile (fig.14). The layout of pilasters on each side and three intervening niches suggest the rock cut model. The near complete devakoshta is seen in the Trimurti cave temple (fig.16). The eight armed Durga stands within a 'sthambha torana'. The pilasters are surmounted by a makara torana over the palagai. The makara have floriated torana tails curling and cascading out on the sides with small riders on the top. Issuing from makara mouths are floral arches thrown in loops forming wave like features. Inside the arches are carved figures. The trough of the loop is supported by a lotus bracket and above this is the simhalalāta. This according to Srinivasan "combine the form of the sthamba and bhitti torana. in as much as it is on the wall and over the kudya stamba, or a dvāra

śobha adorning a shrine entrance(31). This is seen in the Dalavanur Satrumalla entrance (fig.10). The Trimurti cave temple has it gracefully positioned on the wall. To the Pallava this tympanum framing the niche was first of all an architectural lintel and beam with its original function. The rock cuts at Mam allapuram continue the shallow niches carrying divinities, adorers or dvarapala. It is only when the central bhadra niche appears that it is properly decorated with the makara torana. The Draupadi ratha has a crowning makara torana (fig.18) carved during Paramesvara I, while the northern Pidari ratha shows an exaggerated freely flowing one. The temples show elaboration to the excess. Apart from the articulation of shrine niches, they show a complete filling up of forms, going crazy over graphic narration. The Olakkanesvara, instead of the bhitti torana on the projected dēvakoshta. shows nākulapāda with bhuta Kanci Kailasa shows deep cut niches carrying bases. dramatic forms, opulent torana of the makra, patra and ratna types. There are besides main niches, narrow slit niches carrying opulent figures of divinities and the semi divine. Powerful torana top the central niche. The Iravātēsvara in Kānci shows much flourish in its torana over the central devakoshta. They are so broad and flowing that they eclipse the austere plan of angular architecture.

The IInd phase temples show a relative reduction in the finish and finesse of devakoshta torana. There is a general impoverishment of ideas and deterioration of style. The niches again become shallow. One example we can take is the paksasila balustrade in Uttaramerur (fig.35'), where enshrined divinities are capped by shallow torana. Squat makara curled up frigidly, let emerge from their mouths a loop surmounted by a square top within which is a valamukha. The saturation point had reached.

## iii) THE UPPER TALA (Superstructure)

Above the walls rise the superstructure. The Amaravati relief shows a Bodhi tree surrounded by double storeyed malika with projecting alpanasika on each storey (fig. 36). Another shows an upper hara with two projecting simha panjāra. with amalaka like capitals (fig.9). The Mittavindaka Jātaka shows us different roofs, circular, rectangular śāla, kūta etc. These three forms ..... ring the storeys (tala ) of the South Indian vimana as the kūta, sala panjāra elements associated with the hāra Another fragment from the Madras Museum enclosure. shows us a kapota, vēdika, alinda nāsika, a kūtagrha, an astāsra śikhara and stūpi (fig.4). The relief from Nagarjunakonda shows from socle to spire the component

features like the kapōṭa over palagai, with alpanāsika and on this recessed course an antari with a projected moulding ālinga above. At the end of this is the parapet, and at this corner appears the square vimāna. There is also a grīva like structure and an aśtāsra śikhara with a stūpi. This could be the wagon vault śikhara which later became the central śāla of the hāra parapet in most vimāna. The wooden prototypes were replaced naturally by stone.

The Dharmarāja ratha shows individual features like the vēdika railing, alpansika, mahanāsika etc. as seen in the sabhākāra temple at Jagayyapeta (fig.8). The Sannati relief in Gulbarga museum shows a harmya with two gavāksa and jāli door on the Ist tala. The upper storey sabhāśikhara is only found and very rarely too in Națarāja or Saptamātr shrines.

Over the pottika and above the uttira rises the vajana moulding and kapota, over this is the prastara carrying the upper tala.. K.R. Srinivasan believes that the rock cut architecture was not architecture in intent but sculpture on a grand scale. It copies and faithfully reproduces in stone every aspects of its wooden prototypes, "even those members which in monolithic are functionless, such as ribbing below the kapota, eaves, nails with boss the timbering and curved rafters below roofs, head, domes and vaults ..... such imitative reproduction of the details of the timbering is found for more than thousand years This tendency is carried beyond even . . . . . . . to structural temples ..... but the exact imitations changed in course of time into conventional motifs such as the projecting ends of the timber beams and rafters in brick and timber temples decorated with vyala hamsa makara transforming into decorative friezes..... or the bhūtamāla, padma and other bandha. The metal ringing of wooden pillars are imitated in konapatta simulating the bracings of the roof planks or eaves boards"(32).

The Pallavas reproduced most of these wooden counterparts. The elaboration of kūta and hāra began to be seen in the Mahēndra I phase with strings of miniature shrines, square in plan with domical roofs, oblong, wagon vault type etc. All these are interconnected by a parapet like hārāntara, specially emphasised in Māmalla phase. Such features as hāra of kūta and sala paňjāra are also commonly used in the upper tala of mukhamandapa of later temples. The kūdu or alpanāsika as ornament never faded. The Mahēndra I Pañca Pandava cave temple shows the crudest and slightest of kapōṭa, barely cut. The Dalavanūr (fig.10) kapōṭa is a fine example of a full kapōṭa with kūdu or alpanāsika. and simulating a terrace over it. Proportionate kūdu arches with gandharva faces and the shovel shaped finials (sakti-dvaja) embellished with scroll work is remarkable for its clarity. The flourish of the foliate mukhapaṭṭi with two outward facing makara, rosettes in the arches are delicate craftsmanship in a relatively formative and new stage. The mouldings above the kapōṭa are the ālinga and antari simulating the terrace.

The transition phase of Mahendra-Māmalla temples show a marked development. The hara with cloister ike hārāntara connects a series of sāla which form an enclosure like parapet over the flat edge roof of the mandapa. This shows us a central open court on the roof, 'candrasāla' or a hall (harmya) which is surrounded by a series of sāla and kūta connected hārāntara. Above the taranga potțika is thus seen an elaborate prastara.

The Konëri mandapa fig.(13) shows an elegant kapota carved with a fine set of kudu arches with a row of miniature shrines on top. Five projecting sala with six lengths of harantara connecting them is seen. The

have an oblong masurka showing the vyālāvari śāla and the projecting makara heads at corners. There is also an oblong recessed grīva over it carrying a śāla sikhara with a medium and frontal alpanāsika ornamented by a torana arch. Four stupi top the sala ridge. The harantara have each two frontal alpanasika and makara arches with the usual shovel shape finial. The ridges of the harantara also carry stupi. There is a full fledged vyalavari below the kapota. The ten nāsika or kūdu on kapota match as a pair corresponding to the projecting sala over the ankana (bay). A brand new feature is the underside of the kapota which is well channelled and has a valabhi carrying a frieze The kapota corners are of hamsa on a vajana plank. worked with scroll patterns representing the corner kona-This point is supported by rampant vyala patta. on the palagai of the pilaster. They represent the kodungai The vyalavari over the shrine are in pairs or mrnālika. of two facing the centre.

The Varāhamandapa (fig.14) has over the pottika the uttira, vājana and vallabhi with a decorated frieze of hamsa alternating with foliage of no commendable finish. The kapota which curves over this has three pairs of kūdu arches, with each pair coming over the ankana or bay formed between the pillars and pilasters. The cavities are filled with lotus instead of gandharva faces. A candramandala decorates the lower ridge of kapota. A vyalavari is seen above the kapota and then the rows of hara of three sala coming directly over the ankana, between the columns below, and corresponding to the kudu arches of kapota. Connecting these is the wagon roof coping or roof, and two lateral openings of alpanasika, narrow vertical openings surmounted by the typical kudu The harantara which is recessed comes shaped arches. directly over the corbels between the sala . Sala also have alpanāsika in the front; and over the ridge of the śikhara are two stūpi placed between the two shovel headed finials of their mukhapatti. The harantara have a single kalasa between the finials of the alpanasika . The sala and harantara form a rhythmic pattern besides connecting each other. The extension of hara members usually seen over the prastāra along the edges of the roof of mandapa is seen in Vijayalaya Colisvara of the Muttaraiyar (fig.41) and some Calukyan examples.

There is another vallabhi with bhūtagaṇa and hamsa. Besides this there is a embossed scroll work in the koṇapațța following the patent of wooden prototypes. The Trimurti cave (fig.16) has a similar valabhi but with an additional frieze of smaller lions at the ends of the frieze. Here the projecting kapota shows two central kudu and one on each side of the entrance pilasters, while the recessed sections show one each framing the entrances on either sides. The konapatta is embossed. The vyalavari above has projecting makara heads in the corners, above which are a hara of two karna kuta one at either extremity corresponding to the corner of the vimana and a central sala, over the main entrance. All these are connected by the necklet harantara. The karnakūta have a single stūpi and the sala two. The shovel faced finial mukhapatti and kudu are all present. The Pancapandava and Trimurti caves thus introduced for the first time the kuta in the hara. The unique feature of the Pancapandava, however is the vyala with a rider atop the pillar capitals taken from the Calukyan The other feature, of the excavation plan examples. of the shrine surrounded by a double pillared cloister is assigned for such reason in the reign of Paramesvara I.

The most finished Ramānuja mandapa shows for the first time a bhūtāvari in lieu of the popular hamsamāla. They carry a continuous rope like garland falling in loops. The seventh gana has an elephant suggesting Ganesa leader of gana, and this could be the earliest representation of Ganesa as a minor Pallava doity. The tenth gana could be Nandi, because of a full face. The kodungai imitates the wooden ribbing supporting the kapota. This feature again appears for the first time in Pallava cave temples but found in earlier Cālukyan cave temples. Below the kūdu arches are jalaka or trellis work in the oblong space, which are like vātāyana. In place of the regular shovel shape finials, only sockets are seen for insertion of separate pieces. Even ridges of śāla and hārāntara cloisters have holes to receive stūpi.

The component parts like the hara, sala and kuta had made an advance in Narasimhavarman I's time. However, the first example of the ekatala type of vimana is first seen in the Ramanuja cave and Arjuna's penance in the Māmallapuram reliefs fully evolved with the sadvarga. Taking this relief and the superstructure of the ratha we observe from the hamsa or bhutamala above the pottika, the kapota with alpanasi with kinnari heads in the gadha cavity, and valli mandala in corners. The hara has karnakuta and series of sala\_ connected and separated by the harantara. The number of sala depended on the width of the prastara and naturally the vimana. There are gr hapindi walls on upper tala which also have niches with figures. The upper tala repeats the hara with karnakūta and bhadrasala, this is now in diminishing succession. Last of all is the grīva with vēdi, has props imitating wood in the cardinal points. The sikhara that cap the grīva are usually Visnucchanda or Brahmacchanda. The kūdu or nāsi and the mahāmēt are shovel shaped. The edges of the sikhara and the finials etc. are all ornamented.

The Arjuna ratha (fig.19) thus is a dvitala vimana with the palagai supporting vyala, which appear to bear They are present in the salīlāntara the roof weight. sections. A prastāra with discrete bhūtamāla a kapota with netranasi and kinnari heads are prominent. There are four karnakūta, and a sala linked by the harantara. The recesses here have netranasi with kinnari heads. The hamsamala shows them in the typical Pallava convention - breast wise below the kapota of gr hapindi. The hara above has one panjārakoshta in the recesses. The grīva is octagonal Visnucchanda. The bosses are ornamented and the soffit of sikhara carries a hamsa mala below it.

The Dharmarāja (fig.20,37) is tritala with anarpita hāra. in each tala. The tala here are functional and square

while griva and sikhara are Visnucchanda. This is thus called the Visnucchanda Miśraka vimāna. The lower tala have an alinda that separates them from the tala Besides the regular hara features, the west harmyā . side prastara introduces the pañjara for the first time. This is also seen in the second tala of Nakula Sahadeva ratha. A note worthy feature is the telescoping of adjacent members on the corner of the hara over the western This gives a perspective appearance. mukhamandapa. There are pranala, with monkeys and bhuta on the kapota between the nasi above the first tala. All karna have The projecting and recessed bifacial kõshta niches. koshta have icons which appear misty and semidivine. The important aspect of this ratha is the play of projection and recession, focussing and telescoping. The diminishing tala show the balance already achieved in the South Indian vimaña, and is referred as "one of the architectural achievements of the Pallava period. The rhythm of its receding tala has never been excelled, has the marvellous sikhara which gracefully tops nor Its strong timber look combined with the high finesse it. of its stone carving, its perfect proportions and shapliness each component - generates a sense of architectural of transcendence that goes well beyond its formal origins"(33). The feature that catches up is the panjara - which is

also seen in the Nakula Sahadeva ratha and in the hara strings of the vimaña. Its presence indicates the late Mamalla style moving into and completed during Paramesvara I phase. This ratha is a ekatala capa, dviyasra or gajapr shtha vimana. The Ganesa ratha which is dvitala shows us miniature models of tall column like vimana in the end arches. These become the precursors of the vrttasphutita element later. The other interesting feature in this ratha also called the Atyantakama Pallavesvaram is the row of nine stupi and the lalata nasi on the sala ends carrying on ornate mukhapatti.

The Northern Pidari ratha shows us another element, which is an architectural resolution. It shows a smaller grhapindi leaving barely any room for the hara; and also eliminates it. This elimination of hara at grīva level becomes a fixed feature in the subsequent temples.

And thus we become familiar with the components of architecture. Variations in proportion, size and placement played a considerable role. The first phase structural temples show that sala are generally longer and the space between them lesser. The hara for the anarpita temple is altogether dropped. In the uppermost tala are found the bhutanayaka or vrsa figures in the prati corners. Grīva dēvata or vimāna dēvata appear for the first time at cardinal points in larger temples. The grīva for the octagonal śīkhara became prismatic as in the Alaivai-k-kōyil and minor shrines in the Kāñci Kailāsa group. In such cases the grīva dēvata were omitted.

The stupi too tended towards elongation. They lacked finesse. In a nutshell "in this period there is both innovation and elaboration, but also a little decadence in terms of finish and finesse. Some of the clarity of shapes and perfection in their articulation found in the earlier phase is lost. While the temples reflect in their elaboration, the settled nature of the Pallava court, they lost the purity of expression found in the earlier phase"(34).

A chapter devoted to the origins and concepts of architecture necessitated a survey through the 'Pallava'. The heritage is not Pallava, the vehicle though is. It cannot be denied that the earliest examples and almost complete evolution occurred in this period of history. Understanding them as completely as possible, makes it easier for us to draw upon and withdraw from those aspects we shall take up in the following chapter. We don't begin by groping in the total dark. We work backwards and look for both facts, innovations, changes and how they affect the emergence of a specific style or idiom.

,

.

## . . 188

## REFERENCES

- 1. S. Gauldie, Architecture The Appreciation of the Arts (ed. Harold Osborne), London 1969, p.2.
- 2. Ibid, p.2.
- 3. E.H. Gombrich, Art and Illusion, Oxford 1960, p.
- 4. S.R. Balasubramanyam, Early Chola Art, Bombay 1966, p.2.
- 5. K.R. Srinivasan, Temples of South India, New Delhi 1971, p.
- K.V. Soundara Rajan, The Arts of South India : Tamil Nadu and Kerala, New Delhi 1978, pp.23-24, quotes from Puram 51, 52 and 59.
- 7. Avanti Sundari Katha Sara Ed. H. Sastri, Madras 1957.
- K.R. Srinivasan, Temples of South India, New Delhi 1971, pp.1-2.
- 9. G. Michell, The Hindu Temple, Bombay 1977, p.61.
- 10. S.I.I. no.31 of 1895.
- 11. A.H. Longhurst, Report of the Archaeological Dept., Southern Circle, Madras 1915/1916.
- 12. N. Venkataramanayya, An Essay on the Origin of South Indian Temple, New Delhi 1983, p.27.
- 13. Ibid, p.1.
- 14. M. Meister and M.A. Dhaky (ed.), Encyclopaedia of Indian Temple Architecture, Pennsylvania 1983. K.R. Srinivasan on the Pan Indian Style : South India c.200 B.C. - A.D. 400, p.3.
- 15. Ibid, p.11.
- 16. N. Venkataramanayya, An Essay on the Origin of South Indian Temple, New Delhi 1983, p.
- M. Meister and M.A. Dhaky (ed.), Encyclopaedia of Indian Temple Architecture, Pennsylvania 1983. K.R. Srinivasan on the Pan Indian Style : South India c.200 B.C. - A.D. 400, p.15.

- 18. Ibid, p.18. Refer Ancient India 20-21, PLXL11.
- 19. For further details see : Transactions of the Archaeological Society of South India (Madras) 1958/59, pp.44-45; Hosakõte Plates of Ganga Avanita : Mysore Archaeological Report 1938, p.88; Udayendram Plates of Nandivarman II; Matavilāsa Prahsana, Trivandrum 1917, p.3.
- Rock inscription behind the Mallikārjuna Temple at Badāmi;
  S.I.I. XI, I, 1; Indian Antiquary IX, p.199.
- 21. M.Meister and M.A. Dhaky (ed.), Encyclopaedia of Indian Temple Architecture, Pennsylvania 1983, K.R. Srinivasan's Pallava's of Kañci : Phase 1 in the Early Toṇḍaināḍu Style, c. A.D. 650-800, p.26.
- 22. S.I.I., I, 24,25,26 and XII, 27,29,30,31.
- C. Minakshi, The Historical Sculptures of Vaikunta Perumal. Memoirs of the Archaeological Survey of India, Delhi 1941, no.63, p.62.
- 24. K.R. Srinivasan, Cave Temples of the Pallavas, New delhi 1964, p.37 see for a detailed inventory and description of these cave temples.
- 25. Ibid, pp.32-34.
- 26. T.A.G. Rao, Elements of Hindu Iconography I, Madras 1914/16, p.52.
- K.R. Srinivasan, Cave Temple of the Pallavas, New Delhi 1964, pp.136-137.
- 28. Ibid, p.141.
- 29. M. Meister and M.A. Dhaky (ed.), Encyclopaedia of Indian Temple Architecture, Pennsylvania 1983. K.R. Srinivasan's Pallavas of Kănci : Phase 1 in the Early Tondainādu Style, c A.D. 650-800, p.44.
- 30. Ibid, p.29.
- 31. K.R. Srinivasan, Cave Temple of the Pallavas, New Delhi 1964, pp.160-161.
- 32. Ibid, p.29.

- 33. M. Meister and M.A. Dhaky, Encyclopaedia of Indian Temple Architecture, Pennsylvania 1983. K.R. Srinivasan's Pallavas of Kañci : Phase 1 in the Early Tondainadu Style, c A.D. 650-800, p.40.
- 34. Ibid, p.50.