



# INTERNATIONAL RESEARCH JOURNAL OF HUMANITIES AND INTERDISCIPLINARY STUDIES

( Peer-reviewed, Refereed, Indexed & Open Access Journal )

DOI : 03.2021-11278686

ISSN : 2582-8568

IMPACT FACTOR : 8.428 (SJIF 2026)

## Architectural Development of Southern India from the chalukyas to the cholas

**Devashish Yadav**

Undergraduate Student,

Department of History,

Amity Institute of Social Sciences (AISS),

Amity University, Noida (Uttar Pradesh, India)

DOI No. **03.2021-11278686** DOI Link :: <https://doi-ds.org/doi/10.2026-17459859/IRJHIS2603024>

### **Abstract:**

*This research explores the growth and transformation of temple architecture in Southern India from the period of the Chalukyas to the height of Chola power. It studies how architectural forms developed over time, beginning with early experiments in rock-cut and structural temples and progressing toward fully evolved Dravidian temple complexes. By examining important examples such as the Shore Temple at Mahabalipuram, the Kailasanatha Temple at Kanchipuram, and the Brihadeeswara Temple at Thanjavur, the project highlights changes in design, scale, construction techniques, and artistic expression. Particular attention is given to the Brihadeeswara Temple, constructed during the reign of Rajaraja I in the 11th century. The temple represents a remarkable achievement in engineering and artistic planning, reflecting the political strength and religious commitment of the Chola rulers. Its towering vimana, detailed sculptures, and numerous inscriptions reveal the close connection between state authority, economic resources, and sacred architecture.*

*The study draws upon established historical works, especially A History of South India by K.A. Nilakanta Sastri and Lords of the Deccan by Anirudh Kanisetti, along with other scholarly materials. Rather than simply describing monuments, the research analyses how architecture served as a medium through which rulers expressed power, devotion, and cultural identity. Overall, the project argues that South Indian temple architecture did not appear suddenly in its grand Chola form but developed gradually through innovation and adaptation. The transition from the Chalukyas and Pallavas to the Cholas demonstrates a continuous yet evolving tradition, culminating in monuments that remain enduring symbols of India's architectural heritage.*

**Keywords:** South Indian temple architecture, Early Chalukyas, Chola period, distinctive architectural features, Pallavas, and Cholas. compare structural, stylistic and artistic changes, structural temple forms.

### **Introduction:**

Between the sixth and eleventh centuries CE, the southern regions of the Indian subcontinent experienced a sustained architectural evolution that transformed temple building into one of the most sophisticated cultural achievements of the medieval world. Over these centuries, sacred structures changed in scale, complexity, and meaning. What began as relatively compact shrines—often

excavated into rock surfaces or constructed with modest structural ambition—eventually developed into immense temple complexes distinguished by engineering precision, carefully measured geometry, and institutional influence. This transformation occurred gradually under successive dynasties, especially the Early Chalukyas, the Pallavas, and the Cholas. Each ruling house inherited architectural knowledge from earlier traditions but adapted it to serve new devotional expressions, administrative needs, and political aspirations.

Temple architecture during this era cannot be understood merely as a sequence of changing styles. Rather than abrupt artistic shifts, the transformation reflects a layered process of experimentation, correction, stabilization, and expansion. Architectural practices evolved through repeated refinement. Ideas about structure, sacred orientation, symbolism, and ritual function were continuously tested and adjusted across generations. As a result, temples increasingly embodied not only religious devotion but also royal ideology, social organization, and economic coordination. By the height of Chola power, the temple had become a complex institutional framework—a physical embodiment of spiritual cosmology and earthly governance combined.

In the aftermath of earlier imperial structures in northern India, regional kingdoms in the Deccan and South sought durable means of consolidating legitimacy. Monumental architecture offered a visible and lasting expression of authority. Royal patronage of temples linked the ruler to divine forces, reinforcing the idea that kingship operated within a sacred cosmic framework. Temples, therefore, were not isolated devotional centers; they became architectural proclamations of stability and order. The central sanctum, housing the deity, symbolized ultimate cosmic authority, while the surrounding halls, enclosures, and gateways articulated degrees of access and hierarchy. Through inscriptions and dedicatory records, rulers embedded their political presence into sacred environments, permanently associating their names with divine institutions.

The Early Chalukyas played a crucial role in initiating this developmental trajectory. Situated in the Deccan plateau, their kingdom functioned as a bridge between northern and southern cultural spheres. Their architectural experiments reveal an openness to multiple influences. Rock-cut sanctuaries carved into sandstone cliffs illustrate an early attempt to formalize sacred interior space. These excavations were not simply decorative carvings; they demonstrated growing attention to structural order. Pillars, ceilings, and sanctums were carefully arranged to direct movement inward, establishing a spiritual journey from outer space toward the sanctified core. Even though these early temples were carved rather than assembled, they conveyed an understanding of spatial hierarchy that anticipated later structural forms.

At sites such as Aihole, experimentation became more visible and diverse. Builders explored different ground plans, including rectangular and apsidal layouts, and tested varying roof designs. Some structures suggest influence from northern curving tower forms, while others anticipate the

stepped pyramidal profiles that later defined southern architecture. This diversity indicates that no single formula dominated architectural thinking at the time. Instead, artisans were investigating proportions, structural solutions, and aesthetic balance. Architecture during this period can be described as investigative rather than finalized. It was a stage of searching and adapting rather than codifying.

Greater formal consistency emerges in monuments at Pattadakal. There, architectural composition displays clearer proportional relationships between sanctum, vestibule, and hall. Sculptural decoration appears more systematically integrated into the structural framework. Narrative panels are positioned deliberately, complementing architectural rhythm rather than overwhelming it. The overall impression is one of balance and growing confidence. While still incorporating diverse influences, temples at Pattadakal suggest that architectural grammar was beginning to solidify into more predictable patterns.

The Pallavas advanced this trajectory by emphasizing structural clarity and material precision. Working extensively with granite, a harder and less forgiving stone than sandstone, they were compelled to adopt more deliberate construction techniques. This technical challenge encouraged heightened planning and geometric discipline. Monolithic temples carved from single rock masses demonstrate ongoing experimentation, yet these monuments show improved proportional control and tower articulation. They functioned almost as prototypes—three-dimensional demonstrations of what fully assembled temples might look like when constructed through masonry techniques.

When Pallava builders turned increasingly toward structural temples composed of quarried stone blocks, sacred architecture assumed new permanence and coherence. Temple complexes became more clearly enclosed, creating defined sacred precincts. Superstructures rose in carefully stepped tiers, establishing a visual rhythm that emphasized measured ascent. Sculptural programs were organized within clearly demarcated niches, aligning iconography with structural divisions. This stage marks the growing maturity of southern temple design. Sacred space was now conceived as an ordered, contained environment reflecting cosmic harmony.

The Cholas inherited this architectural system and expanded it dramatically. Their political authority, supported by agrarian prosperity in the fertile Kaveri basin, provided substantial economic resources for large-scale construction. Temple building became central to royal identity and statecraft. Instead of refining form alone, the Cholas magnified scale. Towers rose to imposing heights, dominating both physical and symbolic landscapes. Engineering feats required for transporting massive stone blocks and elevating them to extraordinary elevations testify to advanced organizational capabilities.

Chola temples were designed not only for spiritual worship but also for civic engagement. Large courtyards accommodated festivals, public gatherings, and ceremonial performances. The

spatial sequence from monumental gateway to sanctum structured a carefully choreographed experience, guiding worshippers through progressive layers of sacred intensity. Architecture thus regulated movement, perception, and ritual rhythm.

Beyond religious symbolism, temples functioned as administrative centers. They controlled endowed lands, coordinated agricultural revenues, and supported temple personnel including priests, musicians, and artisans. Inscriptions detail financial management and institutional roles, demonstrating that temples were integrated into regional governance. Through these mechanisms, architecture became intertwined with economic and social systems. It acted as both sacred dwelling and organizational hub.

Seen across five centuries, the architectural progression from Chalukyan experimentation to Chola monumentality reveals cumulative intellectual labor. Early builders tested possibilities; later dynasties standardized methods; imperial patrons expanded scale and institutional depth. The temple evolved from exploratory shrine to monumental complex that unified devotion, authority, engineering skill, and social coordination. These structures were not static relics but dynamic frameworks that shaped and reflected the civilization that produced them.

The endurance of these temples across the South Indian landscape continues to testify to the creative sophistication of early medieval builders. Their architectural legacy demonstrates how stone, geometry, ritual, and power were fused into a coherent and enduring cultural expression.

### **Political Context and the Rise of Temple-Centered Legitimacy:**

The early medieval period in India was marked by the decentralization of large imperial structures and the emergence of powerful regional states. In such a climate, rulers required durable mechanisms to legitimize authority across diverse populations. Temple patronage offered a powerful solution. By associating themselves with sacred deities and financing monumental construction, kings positioned their rule within the framework of divine order.

Architecture thus became a political language. The sanctum symbolized the cosmic axis, while the surrounding architectural components represented expanding spheres of sacred influence. When royal inscriptions recorded land grants and endowments on temple walls, they inscribed political authority directly into sacred space. Governance and devotion became mutually reinforcing.

Simultaneously, the growth of devotional Hinduism altered ritual expectations. Religious practice increasingly centered on image worship, musical recitation, congregational gatherings, and annual processions. Architecture responded by expanding interior halls, circumambulatory paths, and courtyards. The temple was no longer merely a container for ritual; it became an active environment structured around movement, sound, and participation.

### **The Chalukyan Phase: Experimentation and Synthesis:**

The Early Chalukyas of Badami initiated a critical experimental stage in South Indian temple

architecture. Positioned geographically between northern India and the Tamil region, the Deccan plateau served as a cultural meeting ground. Chalukyan monuments reflect this intermediate location through stylistic plurality and architectural adaptability.

The rock-cut sanctuaries at Badami reveal efforts to transform earlier excavation traditions into new devotional contexts. Pillared halls carved into sandstone cliffs lead toward inner sanctums housing images of major Hindu deities. These interiors demonstrate early understanding of axial alignment and spatial hierarchy. Although carved from living rock, they anticipate structural temples through careful articulation of columns, beams, and sculptural panels.

Aihole represents a particularly dynamic environment of experimentation. At this site, no single architectural formula dominates. Builders attempted various ground plans—apsidal, square, and rectangular—while exploring alternative superstructure designs. Some temples exhibit rising rooflines hinting at later pyramidal towers; others display curving profiles associated with northern forms. This coexistence suggests that architectural identity had not yet solidified. Instead, artisans were testing compositional possibilities, adjusting structural proportions, and experimenting with visual rhythm.

Pattadakal demonstrates a move toward greater coherence. Here, the arrangement of sanctum, vestibule, and hall becomes more predictable. Sculptural programs are integrated deliberately into the architecture, transforming walls into narrative surfaces. The superstructure shows clearer tiered articulation, establishing a more stable architectural language. While still influenced by multiple traditions, Pattadakal reveals increasing formal confidence.

Importantly, this Chalukyan phase should not be characterized as stylistic confusion but as productive synthesis. Architectural vocabulary was under active negotiation. The experimentation of this period laid intellectual groundwork for subsequent regional formalization.

### **Pallava Structural Discipline and Monumental Confidence:**

The Pallava dynasty inherited this experimental tradition yet advanced it significantly, particularly through technical innovation in granite construction. Unlike the relatively workable sandstone of the Deccan, granite required precision planning and refined craftsmanship. This material shift encouraged greater structural clarity and long-term durability.

The monolithic temples at Mamallapuram represent transitional achievements. Although carved from single rock masses, they simulate the appearance of assembled structures. By experimenting in monolithic form, architects refined proportions and superstructure concepts before implementing them in true masonry. Each monument differs slightly in profile and design, suggesting continued exploration of vertical emphasis and façade composition.

With the construction of structural temples such as the coastal shrine at Mamallapuram, Pallava architects demonstrated mastery of assembly techniques. These monuments reveal increasing geometric regularity and axial focus. Placement within prominent landscapes—such as seashores—

also underscores the political significance of architectural visibility.

The Kailasanatha Temple at Kanchipuram marks a decisive stage of systematization. The spatial organization reflects deliberate planning: a central sanctum surrounded by subsidiary shrines and enclosed within a rectangular boundary. The outer wall reinforces sacred enclosure, while interior sculptural niches articulate theological diversity. The rising superstructure is composed of clearly defined tiers, conveying ordered ascent. At this stage, architectural grammar exhibits discipline and conceptual clarity.

What distinguishes Pallava architecture is not merely structural improvement but spatial control. Enclosure, symmetry, and proportional balance become defining features. These qualities prepared the foundation for the imperial expansions of the Chola period.

### **Chola Monumentality and Institutional Complexity:**

The Chola dynasty elevated temple construction to an unprecedented scale. Economic prosperity derived from agricultural expansion and organized irrigation systems provided the resources necessary for ambitious projects. Architecture became central to royal self-definition.

The Brihadeeswara Temple at Thanjavur exemplifies Chola ambition. The towering superstructure rises dramatically above its surroundings, asserting visual dominance. The engineering required to transport and elevate massive granite blocks demonstrates advanced technical coordination. The verticality of the structure conveys cosmic symbolism while reinforcing political authority.

Unlike earlier temples that emphasized intimate sacred space, Chola complexes incorporate expansive courtyards suitable for large congregations and royal ceremonies. The spatial sequence from entrance to sanctum is carefully structured, guiding both physical movement and spiritual progression. Architectural planning thus becomes experiential choreography.

Chola temples also functioned as institutional centers. Extensive inscriptions detail land allocations, temple personnel, ritual expenses, and administrative procedures. These records reveal temples as major economic entities connecting agricultural production with ritual activity. The temple served as treasury, employer, and cultural patron.

Bronze icon production during this period further transformed devotional life. Portable deities carried in procession allowed sacred presence to move beyond the sanctum into civic space. Architecture and ritual mobility thus interacted dynamically: permanent granite structure provided stability, while bronze icons animated sacred geography.

### **Comparative Analysis of Architectural Language:**

When examined comparatively, architectural developments in South India display distinct but evolving characteristics. Northern Indian temples often emphasize a curving vertical profile culminating in disc-like crowning elements. In contrast, southern superstructures are composed of diminishing horizontal tiers that create pyramidal ascent. The Chalukyan period blends these

tendencies, while Pallava and Chola architecture crystallize the tiered system more decisively.

This difference reflects more than aesthetic preference. The tiered pyramid conveys measured ascent through incremental progression, aligning with geometric proportionality. Vertical rise in southern architecture is controlled and systematic rather than curvilinear and organic. Chola architects amplified this structural logic, producing imposing yet balanced towers.

### **Temple Urbanism and Spatial Expansion:**

As temple institutions increased in scale and complexity, they began to transform the very geography of settlement across South India. No longer confined to modest ritual enclosures, temple complexes gradually became organizing centers around which towns and cities took shape. What initially began as sacred precincts dedicated to divine worship evolved into spatial anchors of urban life. Streets were laid out in relation to temple axes, markets clustered near gateways, and residential neighborhoods developed in concentric patterns around the sacred core. In this way, temple expansion directly influenced patterns of habitation and economic interaction.

The enlargement of temple compounds during the early medieval centuries signaled more than architectural ambition; it reflected the integration of religion with social and economic systems. Merchants established trading areas close to temple entrances to serve pilgrims and residents. Artisans—sculptors, metalworkers, weavers, and carpenters—settled nearby to supply ritual objects and architectural components. Agricultural lands, often donated to temples through royal grants, sustained these expanding institutions and created networks linking rural production to urban ritual centers. Temples thus acted as mediators between agrarian resources and urban demand, facilitating the circulation of goods, labor, and wealth.

Over time, monumental gateways (gopurams in later phases) grew increasingly prominent, marking the transition from civic space to sacred enclosure. The approach to the temple was carefully structured to heighten anticipation and reverence. Processional streets aligned with cardinal directions guided visitors toward the sanctum through a sequence of increasingly sacred spaces. This deliberate staging of entry reshaped urban design, converting entire neighborhoods into ritual corridors. The temple precinct became a microcosm of a city, complete with administrative offices, storage halls, kitchens for ritual offerings, water tanks, and performance platforms. Rather than existing separately from civic life, sacred and secular functions were interwoven.

The boundaries between temple and town remained fluid. Festivals and public ceremonies blurred distinctions between interior and exterior domains. During major celebrations, deities were ceremonially carried beyond temple walls into surrounding streets, symbolically extending divine presence into the everyday landscape. Markets flourished during these periods, strengthening economic vitality while reinforcing communal identity. Through such interactions, the temple functioned not as an isolated monument but as a living institution embedded within broader urban

rhythms.

### **Ritual Movement and Sensory Design:**

Temple architecture was not conceived solely as static form; it was designed to accommodate movement and sensory experience. The act of circumambulation (pradakshina) around the sanctum formed a central devotional practice. Architects therefore incorporated ambulatory passages that allowed worshippers to move in measured paths around the deity's inner chamber. This circular motion reinforced theological concepts of cosmic order and continuity, translating metaphysical ideas into bodily experience.

Mandapas, or pillared halls, served as transitional spaces that mediated between exterior openness and inner sanctity. These halls hosted recitations of sacred texts, musical performances, ritual dance, and community gatherings. Their spatial openness and acoustical properties enhanced collective participation. Sculpted pillars depicting divine narratives and mythological scenes further enriched the environment, making architecture itself a medium of instruction and devotion.

Light and darkness were manipulated with precision. Exterior courtyards bathed in sunlight contrasted deliberately with the dim interior of the garbhagriha (sanctum). This gradual modulation of illumination guided emotional response: brightness fostered communal engagement, while subdued interior light encouraged introspection and awe. The fragrance of incense, the sound of bells and chants, the tactile sensation of cool stone underfoot—all contributed to a multisensory sacred atmosphere. Architecture functioned as a total sensory composition.

Equally significant was the integration of ritual routes beyond the temple's core. Annual and seasonal processions extended sacred movement into the surrounding city. Chariots bearing images of deities followed predetermined circuits through public streets, reaffirming the spatial unity of sacred and civic domains. These mobile ceremonies transformed urban roads into temporary ritual theaters, reinforcing collective memory and shared identity. Through such practices, temples generated layered sacred geographies that oscillated between stillness and motion.

### **Environmental Integration:**

South Indian temples were rarely placed arbitrarily; their locations often reflected ecological sensitivity and symbolic intent. Many were situated near rivers, tanks, or coastal zones, aligning sacred architecture with sources of water—an element central to purification, fertility, and renewal in Indian religious thought. Temple tanks (pushkarinis or tirthas) were carefully engineered both for ritual bathing and for practical water storage. These reservoirs contributed to irrigation systems that sustained agriculture in surrounding regions.

Temple construction frequently coincided with hydraulic initiatives such as canal excavation and reservoir expansion. Rulers who sponsored temples also invested in water management infrastructure, thereby linking spiritual merit with public welfare. In agrarian economies dependent

upon monsoon cycles, such initiatives carried immense social and political significance. Temples became custodians not only of ritual practice but also of environmental stewardship.

Stone architecture itself reflected adaptation to climate. Thick granite walls moderated internal temperatures, while high ceilings and pillared corridors facilitated air circulation. Orientation according to cardinal directions and solar alignment reflected both cosmological principles and environmental awareness. The temple thus stood at the intersection of theology and ecological intelligence.

### **Long-Term Legacy:**

The architectural achievements realized between the sixth and eleventh centuries established enduring models for South Indian temple design. Later dynasties elaborated upon foundational forms developed by earlier patrons. Enclosure walls multiplied, gateways grew taller and more ornate, and urban integration deepened. Yet the essential principles—axial planning, hierarchical spatial sequencing, sculptural narrative, and ritual choreography—remained consistent.

Even in contemporary temple construction across South India, echoes of early medieval proportional systems and symbolic geometry remain visible. Modern architects and artisans continue to reference traditional manuals and inherited craft knowledge rooted in this formative period. The continuity of these principles demonstrates the remarkable resilience of the architectural vocabulary shaped during the Chalukya, Pallava, and Chola eras.

### **Conclusion:**

The architectural evolution of South India across the early medieval centuries represents a sustained process of innovation rather than a simple succession of stylistic changes. From initial experimentation in stone carving and structural planning to the emergence of vast institutional complexes, temple architecture became a comprehensive framework integrating devotion, governance, economy, and environment. These buildings were not inert monuments; they operated as dynamic centers of social life, shaping urban organization and collective memory.

By translating cosmological concepts into tangible spatial forms, temple builders created environments that communicated theological meaning through geometry, movement, and sensory experience. The resulting complexes embodied a sophisticated synthesis of artistic skill, engineering knowledge, and administrative capacity. Their enduring presence across the South Indian landscape continues to testify to a civilization capable of merging sacred imagination with monumental craftsmanship, producing structures that remain both spiritually resonant and architecturally compelling centuries after their creation.

### **Reference:**

1. Champakalakshmi, R. 2011. Religion, Tradition and Ideology: Pre-Colonial South India. New Delhi: Oxford University Press.

2. Harle, J. C. 1994. *The Art and Architecture of the Indian Subcontinent*. 2<sup>nd</sup> ed. New Haven: Yale University Press.
3. Michell, George. 1995. *Architecture and Art of Southern India: Vijayanagara and the Successor States*. Cambridge: Cambridge University Press.
4. Michell, George. 1988. *The Hindu Temple: An Introduction to Its Meaning and Forms*. Chicago: University of Chicago Press.
5. Sastri, K. A. Nilakanta. 1955. *A History of South India from Prehistoric Times to the Fall of Vijayanagar*. Oxford: Oxford University Press.

