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ARCHITECTURAL AND SPATIAL ARCHETYPES OF THE KAMPLI–HAMPI CULTURAL SPHERE: A SOCIO-POLITICAL AND TYPOLOGICAL STUDY

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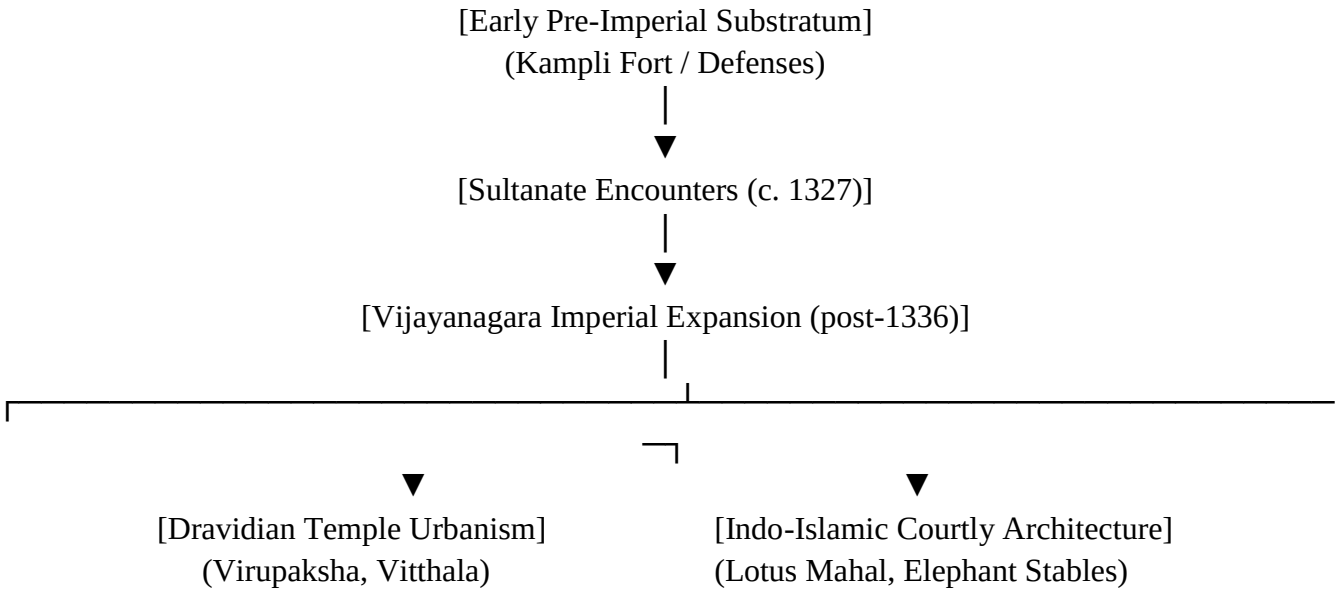
Abstract

The Kampli–Hampi corridor along the Tungabhadra basin in Karnataka, India, serves as a vital crossroad in South Indian history. Preceding the consolidation of the Vijayanagara Empire (1336–1646 CE), the Kampli kingdom functioned as a crucial transition state between medieval regional chiefdoms and an imperial polity. This study analyses the surviving architectural monuments, defensive structures, and socio-religious complexes across Kampli and its neighbouring imperial core. By Analysing spatial layouts, material culture, and construction techniques, we examine how architectural forms evolved from military strongholds into complex Indo-Islamic and Dravidian monuments. Particular attention is paid to defensive gateways, rock-cut fortifications, and hybrid civic structures. The research provides a comprehensive assessment of how physical monuments reflected political legitimacy, defensive necessity, and elite courtly life.

1. Introduction & Historical Context

The middle reach of the Tungabhadra River witnessed continuous state formation from early prehistory through the high medieval period. In the early 14th century, Kampli (historically Kampili) emerged under leaders like Kampli Raya as an influential power contesting regional supremacy against the Hoysalas, the Yadavas of Devagiri, and later the Delhi Sultanate. Following the collapse of the Kampili principality, its territorial base and defensive strategies were absorbed into the emerging Vijayanagara state.

Architectural remains across Kampli and Hampi illustrate this structural transition. The built environment ranges from massive granite ramparts to complex water channels, hypostyle pavilions, and civic structures like the Lotus Mahal (Kamal Mahal).



2. Objectives

1. **Typological Mapping:** Classify the built heritage of the Kampli–Hampi region into clear functional categories: defensive, civic-courtly, religious, and hydraulic.
2. **Structural Analysis:** Identify the materials, masonry techniques, and engineering methods utilized in stone fortifications and courtly pavilions.
3. **Stylistic Synthesis:** Trace the evolution of the "Vijayanagara Style," highlighting the integration of Dravidian architectural traditions with Islamic structural features (such as cusped arches, vaults, and stucco relief).
4. **Spatial Dynamics:** Assess how spatial arrangement reflected political hierarchies, military strategy, and civic organization.

3. Scope & Limitations

Scope

- **Geographic Limits:** Focused on the immediate riverine strip of the Kampli Taluk, extending westward to the UNESCO World Heritage core of Hampi within the Vijayanagara district.
- **Temporal Range:** Late 13th century (late Kampili kingdom) through the 16th century (peak Vijayanagara period).
- **Typological Inclusion:** Fortification walls, gateways, secular courtly monuments (e.g., Lotus Mahal), elephant stables, and hydraulic infrastructure.

Limitations

- **State of Preservation:** Many structures in the primary Kampli fort enclosure exist in ruined states due to historical warfare, urban encroachment, and weathering.
- **Documentary Gaps:** Epigraphic sources directly addressing early 14th-century Kampli construction techniques remain sparse compared to later royal imperial charters.
- **Archaeological Access:** Certain zones within active modern settlements present challenges for full-scale non-invasive subsurface exploration.

4. Architectural Typologies and Structural Analysis

The monuments of the Kampli–Hampi region can be organized into four core functional categories:

Typology	Primary Examples	Key Architectural Features	Engineering Innovations
Defensive Structures	Kampli Fort Gateways, Outworks	Cyclopean granite masonry, bent-axis entrances, crenellated parapets	Dry-stone masonry without mortar, leveraging natural boulder terrain
Civic-Courtly	Lotus Mahal (Kamal Mahal), Elephant Stables	Multi-tiered pavilions, stepped bases, cusped plaster arches, vaults	Lime-mortar vaults, concealed cooling channels, hybrid arches
Sacred / Temple	Virupaksha Complex, Pattabhirama Temple	*Ranga-mandapas*, composite *yali* pillars, tall *gopurams*	Monolithic stone carving, wide-span trabeated post-and-beam construction
Hydraulic Infra	Stepped Basins (*Pushkarani*), Aqueducts	Dressed granite linings, stone aqueducts, siphons	Gravity-fed water distribution systems integrating river sources

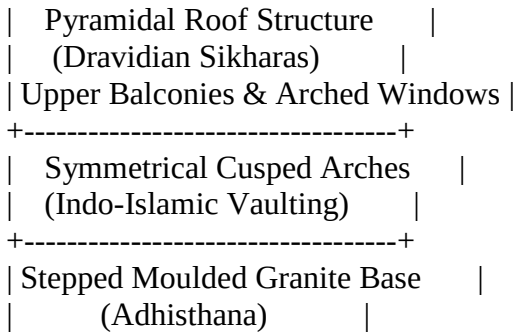
4.1 Fortification and Military Planning

The military architecture of Kampli features heavy cyclopean stone masonry. Quarrying techniques made direct use of local granite tors. Builders used dry-stone construction, fitting massive granite blocks together without mortar through careful dressed joints. Gateways featured defensive "L-shaped" or bent-axis entry pathways, neutralizing direct frontal assault by cavalry or battering rams.

4.2 Courtly Architecture: The Lotus Mahal Case Study

The Lotus Mahal (Kamal Mahal) stands as a notable example of courtly architecture. Situated within the Zenana Enclosure, this two-story open pavilion displays a synthesis of design traditions:

- **Dravidian Elements:** Pyramidal *shikhara*-style roofs, stepped base mouldings (*adhisthana*), and decorative stone brackets.
- **Indo-Islamic Elements:** Multi-cusped arches, central vaults, domes, and plaster/stucco relief work

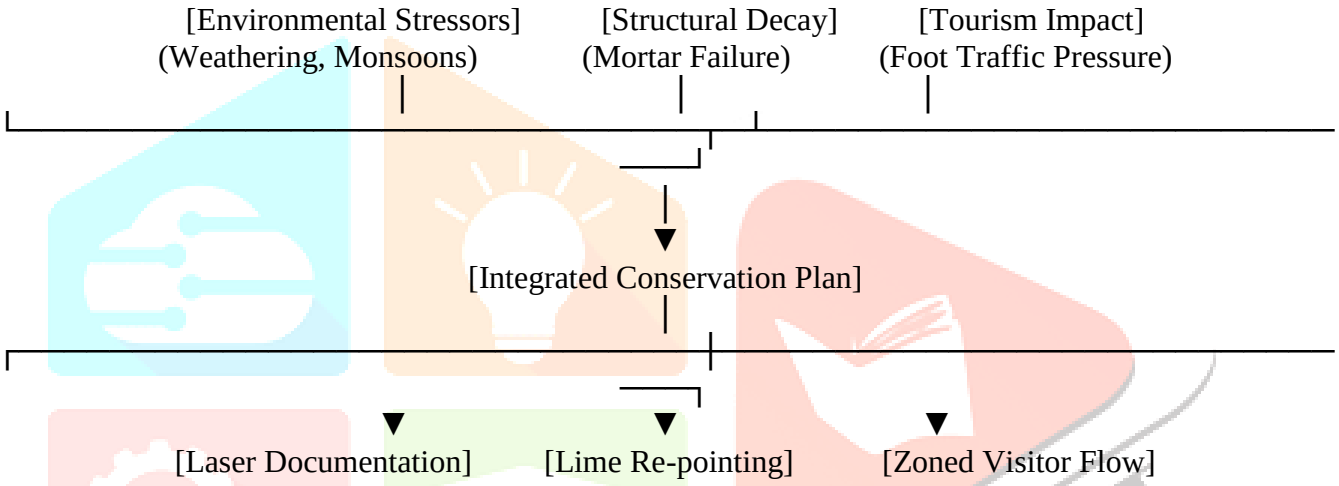


Recent architectural surveys highlight the structural utility of these designs. The deep recessed archways reduced heat gain, while internal channels within the masonry walls allowed water to circulate, functioning as a historic passive cooling system.

5. Architectural Significance

1. **Synthesis of Styles:** The region pioneered the blending of traditional southern Indian trabeated stone methods with northern arched/vaulted techniques. This set a precedent for later Deccan regional styles.
2. **Resource-Driven Engineering:** Construction practices maximized the natural granite landscape, using local rock formations directly as foundations and fortification bases.
3. **Urban Spatial Hierarchy:** The layout reflects distinct functional zones, separating the sacred centers along the river from the administrative and courtly enclaves.

6. Conservation Challenges and Sustainable Frameworks



Preserving the masonry and stucco structures across Kampli and Hampi requires specific conservation strategies:

- **Material Compatibility:** Restoration work requires using traditionally slaked lime mortars rather than modern Portland cement, which can cause salt damage and accelerate decay in historical brick and stone.
- **Structural Monitoring:** Non-invasive methods, such as terrestrial 3D laser scanning and ground-penetrating radar (GPR), are used to assess sub-surface conditions and structural stress points.
- **Environmental Management:** Mitigating runoff erosion during monsoon seasons requires maintaining historical drainage pathways and controlling vegetation growth along ancient stone joint lines.

7. Conclusion

The historical monuments across the Kampli–Hampi landscape represent a significant phase in South Indian architectural history. From the fortified strongholds of the early Kampli kingdom to the courtly pavilions of the mature Vijayanagara Empire, these structures record the evolution of regional building techniques, military engineering, and artistic synthesis. Continued interdisciplinary study and careful preservation efforts remain essential for understanding and protecting this built heritage.

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