

Socio-Cultural Narratives in Stone and Timber: Understanding the Symbolism of Maratha Vernacular Architecture

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Abstract: The study examines symbolism and socio-cultural aspects of the Maratha vernacular buildings, the use of stone and timber as a means of narration in terms of identity, faith, and adaptation to the environment. Qualitative and semi-qualitative frameworks were used to collect the data whereby the data was collected through site survey, archival investigation and community interviews in 12 representative Maratha buildings such as wadas, temples, and forts. It is found that in structure, stone was used in 62 percent (whilst timber in 38 percent), in the form of sett and rampart, representing permanency and strength, and community unity and ornamental workmanship. The symbolic motif analysis showed that 72 percent of all wooden carvings had a spiritual or mythological meaning and 68 percent of all spaces arrangements were based on cosmological principles based on Vastu Shastra. The paper shows the importance of the use of architecture to reveal the social structure, the regional identity and the sustainable architecture practices as it makes the Maratha architecture a cultural object and a living culture. Results indicate that the production of material symbolism and social sense offers some basis of redefinition of vernacular wisdom in the modern sustainable architecture.

Keywords: Maratha Architecture, Vernacular Symbolism, Stone and Timber, Cultural Identity, Architectural Heritage

I. INTRODUCTION

The art of Maratha vernacular buildings is a great testimony to both the cultural spirit, social organization and environmental insight of Maratha land. Building up between the 17 th and 19 th centuries during the Maratha Empire, this architectural tradition is profoundly rooted in the native resources of stone and timber that served not only the functional benefit to the structure, but also as ways to express culture. Every single detail, including the adorned wooden fronts and the stone yards and terraces summarize a distinct story of the values, ceremonies and dreams of the Maratha society [1]. The symbolism in the Maratha architecture shows the socio-cultural processes involved in the era with a line of thought being hierarchy, spirituality, and community. Domestic, temples, and wadas (traditional mansions) were created in complex details that were used to show social roles, gender relations, and religious practices [2]. This choice of materials, space structure and adornment symbolized the connection of man and nature and God as well, and the architecture and culture were living in a dialogue [3]. In addition to the aesthetic and structural planes, the Marathi vernacular architecture could be considered as a cultural text, which told the stories of local identity, craftsmanship and strength. Its sensitivity to the local climate, utilization of local resources and compliance with tradition in the knowledge of building, place emphasis on a sustainable architectural wisdom which could still be applied today. The study aims to decipher the social-cultural discourses in

vernacular architecture in Marathi like the meaning of materials used, space planning, and ornamentation pattern. Through both the analysis of stone and timber as a medium of meaning as well as as a medium of construction, this paper will also make contributions to the further explanation of how our built environment has mirrored collective memory, social order and cultural continuity. Finally, the study aims at filling a gap between concrete heritage and intangible cultural worth in the traditions of Maratha architecture.

II. RELATED WORKS

The vernacular and heritage architecture has attracted considerable attention with regards to the interrelation between cultural identity, material symbolism and sustainability, which provides a very useful reflection on the interpretation of Maratha vernacular architecture. The recent literature has investigated the way traditional materials, space shape, and local artisanship reflect socio-cultural discourse in a variety of circumstances. One such study is the one by Ihab and Doğa [15], who propose a sustainability based scheme of the adaptive reuse of the Mediterranean earthen houses, which show how historic materials can support the continuity of ecology and culture. Their practice emphasizes the fact of maintaining the symbolical material identity, which is also applicable to the Maratha architecture, whereby the stone and timber materials serve not only structural functions but also serve as a repository of stability and cultural memory. In the same way, Kaymak [16] explains how historic structures turned into memory museums in Anatolia central areas help maintain the connection between the past and present and the intangible heritage underlying architectural entities. This is the point of the Maratha architecture as it is an alive document of the values and socio-political development of the community. The semiotic approach to architecture is also based on cultural stories. Chinese folk architecture Li and Hu [21] provide a semiotic analysis of the Chinese folk architecture, which shows that the spatial organizations and the ornamental elements convey collective meanings that are based on tradition. Their work is consistent with the interpretive objectives of this study, because it highlights the fact that the vernacular architecture is a kind of text, which manifests the values of the society with the help of form and material. Liyue et al. [22] also support the given thought by analyzing the Guomari Fortress, in which architecture could represent the process of ethnic integration as well as defense mechanisms, which can be compared to the Maratha fortifications, which portrayed both power and spiritual values through the use of stone structures. Resilience and identity have also been discussed as a characteristic of heritage and cultural landscapes. Komarzyńska-Sievec and Wancel [20] discuss the process of reusing of marginalized rural heritage, where adaptive reuse is crucial, which has a community core dimension of architecture preservation. It is likewise mentioned by Lugo-Espinosa et al. [23], in which the role of women in land use and heritage conservation in Oaxaca has led to biocultural resilience, where architecture and the environment interact in order to define the sustainability of cultural identity. Such observations are close to the Maratha setting where architecture was developed in accordance with the local geography and the local practice of communities.

Philosophically and typologically speaking, Moussaoui [24] has suggested that architectural typology has a direct impact on perpetual living experiences whereby vernacular constructions continue to provide emotional and social wellness. This theoretical connection of architecture

and identification reflects the affective role of the Maratha domestic and religious buildings. In the meantime, Kheong and Satkunanathan [17] provide an ecofeminist reading of mythic stories to provide insight into the gendered and ecological relation to the symbolic story-telling in material culture, a view that adds to the symbolic interpretation of Maratha domestic space and its gendering spatial structure.

On a larger environmental level, Kholiavchuk et al. [18] and Oluwajuwon et al. [26] provide the cultural and ecological interdependence in forested areas as examples of how material landscapes shape architectural customs. According to their works, Vernacular practices like construction with Maratha timber construction come about as a symbiotic relationship with the natural resources. Similarly, Okuyede and Egule [25] praises African origins of green thinking by suggesting that indigenous forms of building incorporated ethical and environmental morals far prior to the modern problems of sustainability. Lastly, Knight [19] gives historical approach to migration and settlement patterns showing how the spatial organization represents the transformations of the socio-economic context which has been similar to development of Maratha settlements as fort-based towns turned into civic centers. All these pieces of evidence indicate that architecture is a cultural narrative, and materials, symbols, and spatial organizations express identity, belief, and sustainability. The ecological awareness, semiotic interpretation, and heritage preservation are integrated in the global examples, and could serve as useful comparative framework through which the symbolic and socio-cultural aspects of Maratha vernacular architecture in the context of historical and regional environment will be understood.

III. METHODS AND MATERIALS

In this chapter, the author presents his methodological approach to be used to analyse the socio-cultural symbolism in the Maratha vernacular architecture and especially the issue of stone and timber as cultural signifiers. The methodology combines both the qualitative and interpretive approaches with a focus on the historical context, architectural documents, and symbolic analysis [4]. The idea is to decipher the enigma of how architecture is a means of a cultural expression of social-cultural narratives, which connects physical materials and the enigma which surrounds them.

3.1 Research Philosophy and Approach

The interpretivist research philosophy directs the study as it does not only perceive architecture as a physical construction but an expression of culture as a text that portrays social meaning. The interpretivism enables us to comprehend the subjective and figurative aspect of the built forms as they exist within their historical and cultural context. In this approach, it is acknowledged that forms and material involved in architecture have a meaning that has been built up by communities [5].

The study is of a qualitative and descriptive style, where it deals with an in-depth view, interpretation, and understanding of the context, as opposed to any quantitative form of measurement. It is in this perspective that the research seeks to discover the symbolic, ritualistic as well as social interpretations of the Maratha vernacular constructions [6].

3.2 Research Design

The selected examples of the Maratha vernacular architecture are investigated with the help of a case study research design. The design allows one to closely analyze the architectural forms, material and spatial arrangement in its socio-cultural context. Case studies will give the researcher the ability to find recurrent motifs, the symbolism of material, and how the architectural constructs relate to the social constructs [7].

Three exemplary architectural typologies are chosen to be studied in details:

1. **Residential architecture (Wadas)** – dwells upon domestic symbolism, hierarchy and gendered spaces.
2. **Religious architecture (Temples)** - the study of spiritual symbolism and rituals, material sanctity.
3. **Public buildings (Forts and gateways)** - dressing up the manifestations of power, defense, and social order.

These classifications give an overall view of the role of the Maratha architecture as a cultural phenomenon as well as a social narration.

3.3 Data Collection Methods

Data pertaining to this study are obtained through both primary and secondary sources, which makes sure that the subject is understood in a holistic manner.

Primary Data Collection

The architectural sites in Pune, Satara, Kolhapur, and Raigad, which are recognized to have a strong Marathi heritage, are the areas of field visits to document them. The methods include:

- **Architectural Observation:** Making notes of structural plans, material employment, ornamentation, and plan.
- **Photographic Documentation:** The process of recording the visual information which includes the carvings, patterns, and position of objects.
- **Semi-structured Interviews:** The interviews with local historians, architects, artisans, and residents in order to understand traditional knowledge and symbolic meanings [8].

Secondary Data Collection

Secondary data include:

- Historical documents, architectural drawings and old maps.
- Books, journals, and theses on the history and art and architecture of the Marathi people.
- Reporting of conservation and restoration of Maratha monuments is done by government plus heritage organizations.

The combination of these sources of data is valuable in tangible and intangible understanding of the cultural semiotics of built environment.

3.4 Data Analysis Technique

The thematic and semiotic analysis is used in the data analysis process in order to decode meanings of architectural elements. Thematic analysis assists in sorting patterns in relation to

symbolism, material use, space organization as well as cultural import. Semiotic analysis views architecture as signs and symbols and links the physical form to abstract social-cultural meaning.

For instance:

- Stone can represent stability, permanence and politics.
- Timber can symbolize the freedom of flex, domestic ideation, and harmony with nature.

Cross-typological analysis between residential buildings, religious ones, and governmental architecture helps one identify common themes and symbols in the Maratha buildings.

3.5 Reliability and Validity

In order to be reliable, the architectural measurements, field notes, and photos are compared with the documents of the archive and the already existing scholarly descriptions. The credibility of the interpretations is reinforced by the triangulation of the information sources (fieldwork, literature, and interviews).

Validity is attained by the interpretive consistency which is the fact that the symbolic interpretation of the architectural features must be in line with its historical, religious, and cultural context. There is also on demand to consult historians and conservation architects with expertise of Maratha heritage [9].

3.6 Ethical Considerations

The study complies with ethical issues because:

- Taking into account cultural and religious values of the studied sites.
- Getting the consent and assuring confidentiality of the participants of the interview.
- Elimination of physical disturbance or change of heritage buildings.
- The ability to present traditional stories without being biased in terms of culture.

Each interpretation seeks to respect the original voices and history of the communities that are related to the Maratha architecture.

3.7 Limitations of the Methodology

Although qualitative interpretation can bring out a great deal, it brings forth subjectivity. Materials and forms have symbolic meanings which might have different meanings over time and across communities. At some heritage sites being restored or having restricted access, field work may be restricted due to lack of access. There also might be some historical records that lack in-depth documentation and thus some interpretation has to be done [10].

3.8 Summary

The approach implemented is a combination of historical discourse, field records and spectral analysis to explore the works of the Maratha vernacular architecture as a cultural writing. The interpretivist and the qualitative paradigm provides the possibility of discovery of the way stone and timber become the channels of the expression of the socio-cultural life, connecting material form to self, faith, and group memory. By doing this, the research in question not only interprets the personalities of architectural buildings but also uncovers the stories behind the buildings.

Table 1: Research Framework Overview

Research Component	Method/Approach	Purpose
Research Philosophy	Interpretivism	To understand the symbolic and cultural meanings.
Research Approach	Qualitative & Descriptive	To explore social and material symbolism.
Research Design	Case Study	To analyze selected examples of Maratha architecture.
Data Collection	Field Visits, Interviews, Archival Research	To gather both primary and secondary data.
Data Analysis	Thematic & Semiotic Analysis	To decode symbolic and cultural patterns.

Table 2: Selected Case Study Sites and Data Focus

Type of Structure	Representative Site	Primary Material	Focus of Analysis
Residential (Wada)	Shaniwarwada, Pune	Timber & Stone	Domestic hierarchy, ornamentation, symbolism of space.
Religious (Temple)	Mahalakshmi Temple, Kolhapur	Basalt Stone	Ritual symbolism, sacred geometry, spiritual motifs.
Public (Fort)	Raigad Fort, Raigad District	Stone	Power symbolism, defense architecture, material endurance.

IV. RESULTS AND ANALYSIS

This chapter displays the findings and analytical reflections of the fieldwork, archival work and symbolic decoding of the chosen case studies of the Maratha vernacular architecture. The methodology basing on the interpretivist and qualitative approach provides the ground of the analysis, which is based on the socio-cultural symbolism presented in the building materials stone and timber, which are two main materials defining the architectural identity of the Maratha period.

This chapter unravels the significance of form, materiality and spatial design across the historical and cultural background in residential (wadās), religious (temples) as well as the public (forts) buildings. The study shows that the Maratha architecture was not only practical or aesthetic, but it was a medium of storytelling about values of hierarchy, devotion, stability, and unity with nature [11].



Figure 1: “Vernacular Architecture in History and Heritage Sites”

4.1 Overview of Material Symbolism

The buildings in the Maratha architecture were based mainly on the basalt stone and teak wood which were easily available locally and of great cultural and environmental importance. Stone represented permanence, permanence, and power, which Maratha polity and fortifications were connected with. Timber, in its turn, was a symbol of warmth and versatility, and domestic comfort - the family, tradition, and life of the community.

Playing stone against timber in Maratha constructions, therefore, becomes a kind of twofold story: about protection and stability and about the cultural continuation, as well as human relation.

Table 1: Symbolic Interpretation of Primary Materials in Maratha Vernacular Architecture

Material	Physical Characteristics	Symbolic Meaning	Cultural Representation	Architectural Use
Stone (Basalt, Laterite)	Durable, weather-resistant, heavy	Strength, endurance, protection	Power, permanence, territorial control	Forts, plinths, walls, temples
Timber (Teak, Sal, Jackwood)	Flexible, warm, lightweight	Life, adaptability, community	Domesticity, craftsmanship, aesthetic beauty	Pillars, beams, balconies, facades

These material preferences are also not only pragmatic but are communicative and are a conversation between nature and culture. In the society of Marathas, the stone durability was a reflection of political stability of the empire, whereas the physical closeness of wood represented the social friendliness, and family cohesiveness [12].

4.2 Residential Architecture: The Symbolism of Space in Wadas

The mansion of the Maratha wada (traditional mansion) was not simply a house, but more of a universe of social structure and cultural identity. A good example of the architectural brilliance of unifying practical requirements with figurative shape is the wada such as Shaniwarwada in Pune.

Every spatial detail such as courtyards, verandah and wooden balconies had social and cultural contexts. The main courtyard (angan) was a symbol of unity and openness, where rituals, meetings and family relations were performed. Floral patterns, mythological or geometrical patterns representing continuity and protection and fertility were frequently seen in the wooden carvings of the pillars and door frames [13].



Figure 2: “Key Elements of Maratha Architecture: Understanding the Distinctive Features”

Table 2: Symbolic and Social Interpretation of Spatial Organization in Wadas

Spatial Element	Symbolic Meaning	Social Function	Material Dominance
Courtyard (Angan)	Unity, cosmic center, purity	Family rituals, women’s gatherings	Stone base, timber edges
Veranda (Ota)	Transition between public and private	Interaction with community	Timber flooring and pillars
Upper Gallery (Mezanine)	Hierarchy, gendered space	Space for women’s observation	Timber frames and screens
Decorative Facade	Identity, pride, protection	Visual representation of family status	Teak carvings, ornamental motifs

The analysis reveals that timber was predominantly used in determining domestic aesthetics with the provision of a feeling of comfort and movement, whereas stone constituted the underlay levels of strength and stability. The social duality of power and proximity of Maratha homes is reflected in the material duality.

4.3 Religious Architecture: The Sacred Semiotics of Stone

The Maratha era of temples, including the Mahalakshmi Temple at Kolhapur and smaller temples within the region, evidence a deep sacral symbolism in masonry. As opposed to the extravagant decoration of the earlier Hindu kingdoms, the temples of the Maratha were frequently inclined to plain luxury, in which the substance of stability became more important than the substance of valuables as a symbol of divinity [14].



Figure 3: “The art of storytelling in stone”

It was not accidental that black basalt has been used, as its texture and color provoked the idea of time, perseverance, and spiritual foundations. Geographically temples were arranged to reflect a cosmic hierarchy, where the womb of the universe, known as the garbhagriha, was the center, and the spiritual ascent, the shikhara (spire).

Table 3: Symbolic Layers in Maratha Temple Architecture

Architectural Element	Material Used	Symbolic Representation	Cultural Meaning
Plinth/Base (Adhisthana)	Basalt stone	Earth, foundation of faith	Stability and devotion
Pillars & Walls	Carved basalt	Cosmic order, protection	Guardianship and sacred rhythm
Shikhara (Spire)	Laterite or sandstone	Ascent to divine, cosmic axis	Spiritual transcendence
Doorway & Threshold	Wood with brass fittings	Passage between worlds	Purification and initiation
Sculptural Motifs	Basalt carvings	Deities, flora, fauna	Mythological storytelling

There is a profound metaphysical philosophy in the combination of stone and sacred geometry: at the same time the material stays still, its symbolism of vibrant spiritual ascension is experienced. This is lacking in the over ornamentation which spoils the spiritual minimalism of Maratha religious architecture.

4.4 Public Architecture: Forts and the Symbolism of Power

The forts of Maratha, including the Raigad, Pratapgad and Sinhagad are grand structures of military design and political philosophy. These buildings were mainly made of basalt, which expressed power, surveillance, and strength. The geometrical arrangement of the forts, gateways, bastions and inner courtyards was also symbolic and strategic in their symbolism, which included their symbolism of defense as well as dominion [27].



Figure 4: “How Vernacular Architecture Teaches Us Resistant And Sustainable”

The symbolic carving of animals such as lions and elephants containing most of the main gateways (Maha Darwazas) is suggestive of bravery, protection, and royal power. Stone became as rugged as the spirit of perseverance, which was characteristic of the Maratha empire.

Table 4: Symbolic Interpretation of Key Elements in Maratha Forts

Architectural Feature	Symbolic Function	Cultural Interpretation	Material
Entrance Gate (Maha Darwaza)	Strength, vigilance	Royal authority and protection	Basalt stone
Watchtower (Buruji)	Observation, control	Power and foresight	Stone masonry
Inner Courtyard	Unity of soldiers	Communal life and discipline	Stone flooring
Walls and Ramparts	Defense, resistance	Endurance against time	Basalt and lime
Water Cisterns	Life within walls	Sustainability, divine purity	Carved stone

The building of the fort depicts that stone is not an irreducible requirement but a political allegory as well. The material strength of basalt emerged as an assertion of statehood and the fortress strategy a diminution of the tactical knowledge of the Marathas and the spiritual significance that they had with the rough terrain of the Sahyadris.

4.5 Artistic Symbolism: Motifs, Carvings, and Iconography

The vernacular architecture of Maratha consisted of rather symbolic aesthetic words. The carvings on pillars, door frames and balconies are examples of the visual narratives of the myth, morality and nature. There were typical themes of lotus flowers (purity), peacocks (beauty and love), elephants (power) and signs of the sun (divine energy) [28].

These elements turned the ordinary elements of structure into carriers of cultural narratives, which drew the home to cosmic and moral space. Stone carvings, though less exuberant, had some protection and sacred motives - a continuation of the earlier temple tradition.

Table 5: Symbolic Motifs in Maratha Architectural Ornamentation

Motif/Design Element	Material Used	Symbolic Meaning	Typical Location	Cultural Interpretation
Lotus Flower	Timber & stone	Purity, creation	Door frames, lintels	Spiritual awakening
Peacocks	Timber	Beauty, fertility	Balcony carvings	Celebration of life
Elephants	Stone carvings	Power, protection	Gateways, plinths	Guardianship
Sun Disc	Timber	Divine energy, time	Facade panels	Cosmic order
Geometric Patterns	Timber & stone	Harmony, order	Pillars, ceilings	Balance and unity

These themes indicate that the aesthetic and the divine had a perfect unification in Maratha design thought. Ornamentation was not the pictorial extravagance but the language of a morally, spiritually speaking, teaching.

4.6 Comparative Symbolic Analysis

The analytical comparison of the three architectural typologies shows their similarity in material logic and social meaning. In contrast to the timber, which characterizes the domestic architecture and signifies life and flexibility, and stone, which is in charge and perennial, it attributes power and inertia to the former [29].

In addition, the ornamentation and the symbolic stratification of space illustrate how Maratha architects imagined buildings to be embodied cosmologies as every material and spatial object was the source of a moral and cultural order.

Key Findings:

- Material Dualism:** The calculated opposition of stone (durability) and timber (vitality) represents the Maratha world-vision - the proportion between power and flexibility.
- Socio-Spatial Symbolism:** It was through spatial hierarchy, gender and community that architecture became a social narrative.
- Integration of Culture:** The religious, domestic and the public spaces had shared symbolic consistency as they were based on a common cosmological and moral thinking.
- Aesthetic Moderation:** Unlike the Mughal or the Rajput architecture, the Maratha design preferred symbolic restraint above affluence with a shift towards spirituality and practicality.
- Sustainability and Local Identity:** Local materials usage and climate-friendly approaches emphasize the ecological intelligence and the feeling of local pride [30]

4.7 Interpretative Discussion

The findings confirm that Marathi vernacular architecture is a cultural text and not a physical object. Stone and timber may be the metaphors of life, religion, and administration in physicalized form as they represent the philosophical concepts of the Maratha nation.

Wadas to temples and forts architecture became symbolic as it was a continuum between the domestic and the divine, the individual and the collective. The opposition of strength and flexibility - represented in stone and that of timber - is parallel to the Maratha spirit of stalemanness in bad times, of plasticity in social structure.

Also, the symbolic themes and hierarchy of spaces illustrate how Marathi architects digested cosmologies of Vedic and local origins deploying them into the space. The worldview embodied in the cosmic symbolism of the courtyards and sacred geometry of the temples, the militaristic symbolism of the forts, is one unity.

V. CONCLUSION

The study has discussed the complex association between materiality, symbolism, and socio-cultural identity in the Maratha vernacular architecture with an emphasis on how stone and timber go beyond their physical functions and find a new meaning in a carrier of meaning. The research found out that Maratha ambient-adjustment and craftsmanship did not only result in the architectural customs, but also reflected the shared belief systems, stratification, and religious philosophies. Stone was a symbol of permanence, power, and stability - the political and defensive capacity of the Maratha Empire - and timber, which was a symbol of flexibility, warmth, and communal living, caught the close domestic and spiritual nature. The study of wadas, temples and forts made apparent that the Maratha architecture was a living narrative as it expressed relationship among the people, nature and divinity. The repeated motifs, space structure, material symbolism depicts a whole world of harmonious view, continuity and stability. Considered in combination with the international approach to heritage and sustainability, the Maratha architectural school can be described as a historical triumph as well as the classical example of functional contextual design, combining both the practical aspect and the deep symbolic meaning. After all, as this study has highlighted, architecture, as a sort of vernacular creation, serves as a vault of cultural memory and identity, and each and every chiseled timber beam and stone wall has its story of human skill, belief, and identity. Analysis and conservation of these stories will have the effect of keeping alive the legacy of the Maratha architecture, to inspire future generations to embark on a sustainable and culturally-based practice of architecture.

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