

ACADEMIC WORK

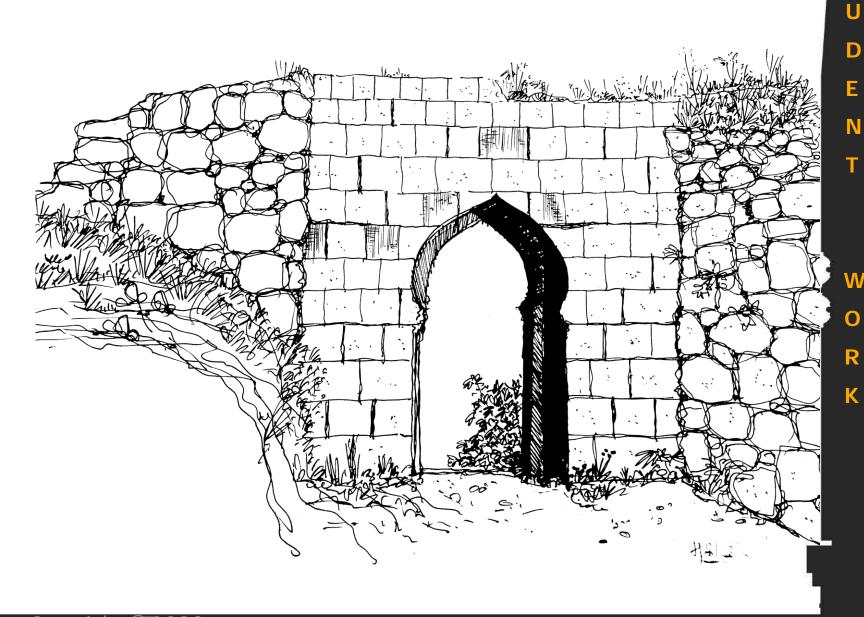
STUDENTS WORK OF

M.ARCH ARCHITECTURAL CONSERVATION

ACADEMIC YEAR 2021-22

Syllabus- 2019 pattern

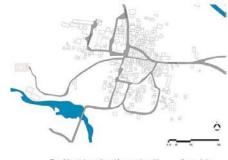
Semester I and II



Studio Project - Conservation Proposal for Chaskar Joshi Wada, Chas village, Pune

Topic – Contextual Study





CONTEXTUAL STUDY OF CHAS

Chas is a panchayat village in the state of Maharashtra, India, on the left (east) bank of the Bhima River. Administratively, Chas is under Khed Taluka of Pune District in Maharashtra. Located 55 Kms from Pune, near Rajgurunagar on Pune-Nashik highway, this town has a historical significance of being the maternal home of Kashibai, wife of Peshwa Bajirao I.

ACCESSIBILITY :

It belongs to Desh or Paschim Maharashtra region

It is located 42 KM towards North from District head quarters Pune \pm 128 km from the state capital Mumbai.



Pune district



Political map of Khed Taluka

CLIMATE

Geographically, study area is part of Western Ghats, Deccan trap region.

This region belongs to sub-humid in the west to semi-and in the east with different seasons like summer, rainy and winter. The western to eastern regions has annual rainfall decreases from 2200 mm to 700 mm marked with July maximum.

Soil in this area like black cotton with varying depth which is developed from basalt rocks.

Agriculture is the most common land use with well irrigated land.

Historical Study

CHASKAR JOSHI FAMILY AND THEIR ASSOCIATION WITH THE ROYAL FAMILY AND THE PESHWA



Chhatrapati Shivaji Maharaj

Chaskar Joshi family are originally from Talsoor village, district Ratnagiri in the Konkan region of Maharashtra.

Krushnaji Pant Joshi Chaskar was appointed as the Potadar by Chhatrapati Shivaji Maharaj and worked in the regions of Kolhapur, Pune, Satara for the Maratha empire.

His three sons, Naro Krushna, Govind Krushna & Mahadji Krushna worked with Sambhaji Maharaj and Rajaram Maharaj and must have done important and significant work since they were awarded Inampatr for the Pali region. They did significant work in the seize of Jinji and helped Rajaram Maharaj.



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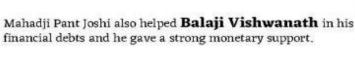
Chhatrapati Rajaram Maharaj



Chhatrapati Shahu Maharaj

Mahadji Pant Joshi had the regions of **Khandesh**, **Baglaan**, **Kalyan**, **Junnar** and **Pune** as his work area as a **Potdar**.

Peshwa Balaji Visi by the help of Mahadji with the then **Chhatrapti Shahu Maharaj** of Satara.





Peshwa Balaji Vishwanath



Peshwa Thorle Bajirao (Bajirao I)

With the intervention of Chh. Shahu Maharaj, 'Ladubai' the daughter of Mahadji Pant was married to the son of Balaji Vishwanath, who went on to become a brave chiefton, **Peshwa Thorle Bajirao** (Bajirao I).

This marital alliance elevated the social status of Chaskar Joshi family.

Work featured: ClassWork

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Subject – Conservation Studio I

Studio Project - Conservation Proposal for Chaskar Joshi Wada, Chas village, Pune

Topic – Architectural typology study during Maratha period - Gadhi

RESIDENTIAL TYPOLOGY IN MARATHA PERIOD

With the rise of Maratha power, the society became affluent and invested resources in building ¢ construction activity.

The most common form of residence was that of a wada; which became synonymous during this time period.

Wada as a residential typology was largely built during 1700-1900 A.D.

'An architectural prototype, the form was used for construction of houses of different social classes and adapted to diverse lifestyles of its owners.

Methods \$ materials of building determine structural design, while topographical variations affect design elements.

The styles ¢ culture of that time and owners self image ¢ aspirations are reflected in the architecture.

Rituals of daily life, movement of people within the house \$ the uses ascribed to various parts of house determine space allocation.



INTRODUCTION TO HOUSING TYPOLOGY

Wada has been defined as a Marathi word denoting a large mansion, the term in all probability derived from the Sanskrit word 'rata' meaning a plot or piece of land meant for a house.

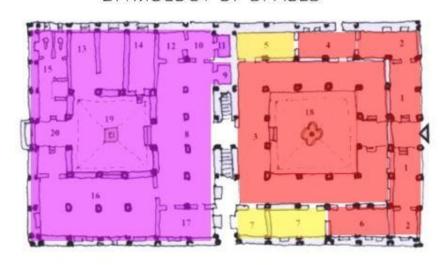
In course of time, it came to rate the house built on that plot.

Individual Wada Gadhi (Mansions) Rajwada (Palace) Ordinary Wadas



Work featured: Class Work

ETYMOLOGY OF SPACES

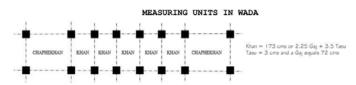


- Osari (verandah)
- Devdi (Guard Room)
- Sudarecha Sopa (Formal Verandah).
- Kachen (office)
- Khalhatkhana(Negotiation room)
- Baithak (Reception)
- Dalan (Living Room)
- Maighar (Middle Room)
- Balad (Grain Store)
 Denghar (Prayer Room)
- Public Space

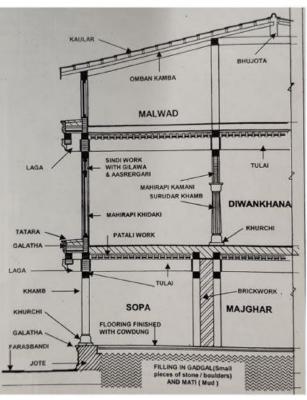
- 11. Tijuri (Treasury)
- 12. Pothichi Kholi (Manuscript Room)
- 13. Gotha (Cowshed)
- 14. Balantinichi Kholi (Delivery Room)
- 15. Nahani/Sandas (Bath/Toilet)
- 16. Swaipak ghar (Kitchen)
- 17. Kothar (Store)
- 18. Karunja (Fountain)
- 19. Tulshi Vrindavan (Shrine)
- 20. Rear Entry
- Semi-private Space
- e Private S
- DEVDI : Small room like vestibules for gaurds.
- KACHERI: Office space of sardars
- DAPHTAR : Record room adjoining the kacheri
- SOPA: Pillared hall led to Kacheris & Daphtars.

Referred as unprogrammed semi-open space around the court.

- SHASHTRAGHAR : Room for weapons
- POTHICHI KHOLI : The manuscript room
- KHALBATKHANA: Negotiation room
- DEVGHAR : Shrine of family's deity
- BALANTINICHI KHOLI : Room for delivery of child \$ the period thereafter
- SWAYAMPAKGHAR : Kitchen
- PANGATICHA SOPA : Dining area
- KOTHAR : Storehouse
- GOTHA/GOSHALE : Cowsheds
- HAUD : Water storage tank



Generally, a Ghaj was equal to two Khan and planned around all the four sides of a Chowk. The space at the four comers of any Chowk was known as Chopkhan or Chaphekhan and measured 2x2 Ghaj lengths

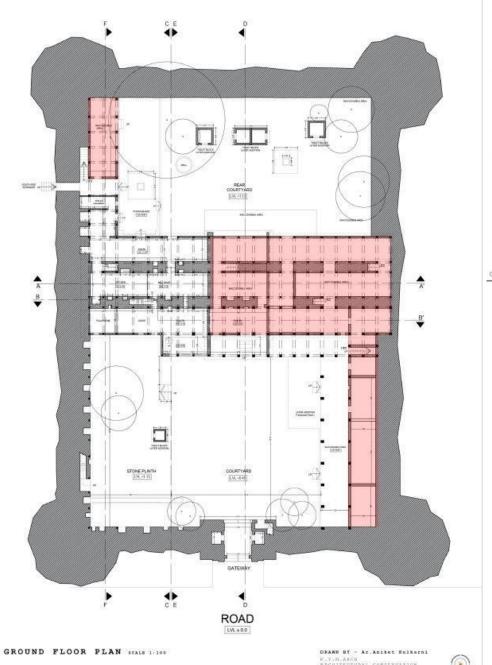


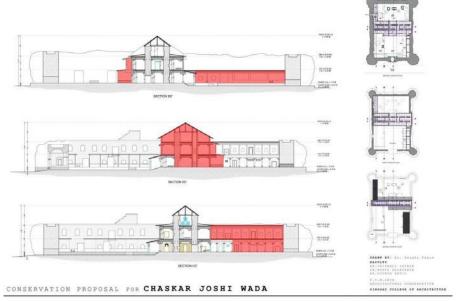


Subject - Conservation Studio I

Studio Project - Conservation Proposal for Chaskar Joshi Wada, Chas village, Pune

Topic – Documentation and Material Mapping













CONSERVATION PROPOSAL FOR CHASKAR JOSHI WADA

2021-22

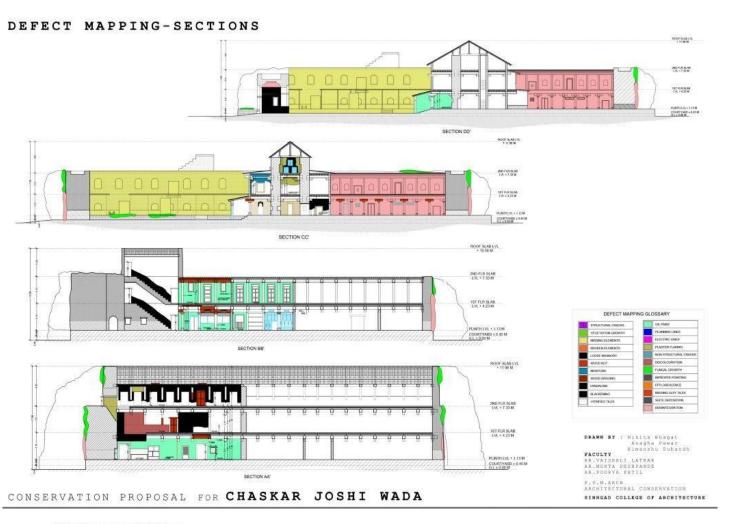
Work featured: ClassWork

R

Subject - Conservation Studio I

Studio Project - Conservation Proposal for Chaskar Joshi Wada, Chas village, Pune

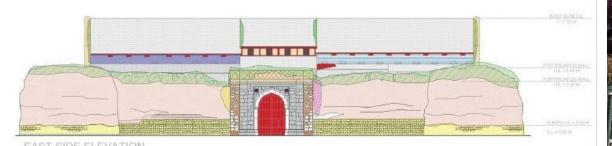
Topic – Defect Mapping



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6	BRACKETS	жоор	Taylor 14		
7.	STAIRCASE	COOM & SMOTS			

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		SUB STRUCTURE	- MO	
13	FOUNDATION		100 mars	
2	PLINTE	STONE		

DEFECT MAPPING



Work featured: ClassWork





2021-22

F.Y.M.ARCH-SEM 1

W

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Subject - Conservation Studio I

Studio Project - Conservation Proposal for Chaskar Joshi Wada, Chas village, Pune

Topic – Proposal- TIME BOUND EXERCISE



Proposal by – Aditya Mandgaonkar



Plantitue Rouse Bayasal for Chasticat Joshi Dada. Chos Village Pung.

Per Camean & Kispery.

The Distry Lose of Sant Chiefer B. Sand Daywespharan

The Distry Lose of Sant Chiefer B. Sand Daywespharan

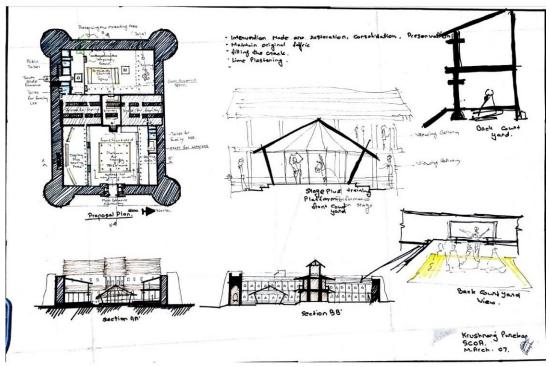
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Proposal of Chaskar Joshi Wada Proposal by – Krushnaraj Purekar



Work featured:

Class Work

2021-22

Subject – Elective I – Digital tools and technology

Topic – Heritage Photography

Students are supposed to Create a Photography Portfolio of the following types of Heritage in their own vicinity: (1) Architectural/ Structural (2) Household Objects (3) Art & Artefact viz. statue, idol, painting, etc. (4) Living/ Intangible Heritage viz. ritual, tradition, custom, etc. (4) Miscellaneous/any other manifestation of Heritage of your choice viz. culinary, performing arts, etc.







Heritage from Kitchen

Work featured – Aditya Mandgaonkar

Heritage in kitchen....well you can say that. No, this is not what it looks like....not a glass Shivlinga, but a lemon juice extractor from the manufacturers called Ogale. My great grandfather and later my grandfather used to have a dealership of Ogale products.

This piece here works wonders and I haven't seen a better performing product than this till now....simple and efficient...that's the way to go...



Work featured – Himanshu Subandh

Performing Arts

One prime thing India is known for is its rich culture of performing arts. Dance and Music form the roots of Indian art and is widely showcased in all parts of the world today.

Indian Classical Music is often termed as 'Maargi Sangeet' - that sets one on I divine and introspective journey.

In frame: Vidushi Ashwini Bhide Deshpande (Jaipur Atrauli Gharana)



Work featured: ClassWork

W

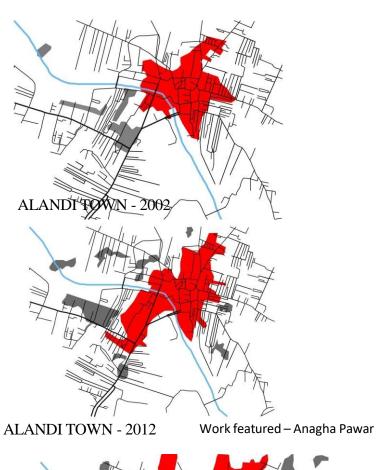
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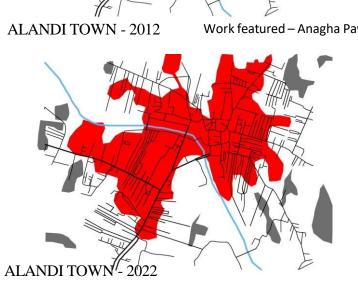
R

Subject – Planning Theory

Topic – SPATIAL AND CHRONOLOGICAL DEVELOPMENT OF MID-LEVEL TOWN

Study any Mid-level town(C class): explain spatial and chronological development through sketches and google earth images



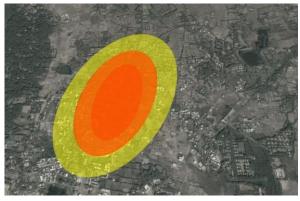




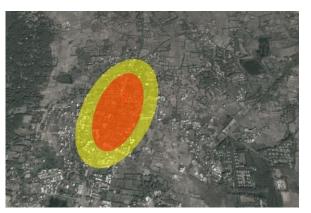




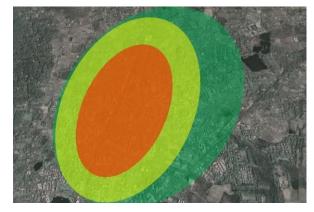
Chronological and spatial development of TRIMBAKESHWAR
Ar Aniket Kulkarni
First Venr



Alibag village, 2002



Alibag village, 2009



Alibag village, 2021

Work featured: ClassWork

2021-22

SUBJECT:- Structural Conservation I

Building element & construction system of it - Case of Chass Village

PIDHE AND TULAI

(BEAM)

PIDHE

KHAMB

(BRACKET)

(COLUMN)

0.60

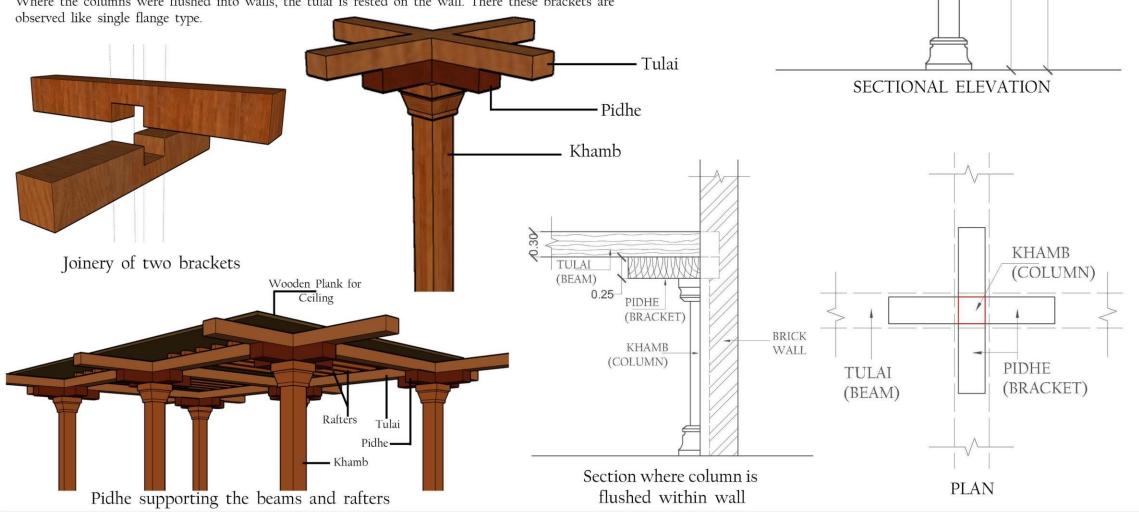
Using wood in domestic architecture was in common practice because most of the construction was done on the principles of wooden frame structure and column.

In the earlier period of Maratha architecture, not much of detailing was done done on columns (khamb) or on the beams (tulai). They were plain and simple.

In the later period of Maratha architecture, during the Peshwa rule, more beautification of the interiors took place. It was this period when the Maratha architecture was at its peak.

Brackets were intricately carved with motifs of leaves, flowers and bird figures and sometimes of crocadiles. To support the Tulai or beams, the column sections alone were not enough, so wooden brackets or pidhe were introduced on which the tulai could rest safely.

Where the columns were flushed into walls, the tulai is rested on the wall. There these brackets are





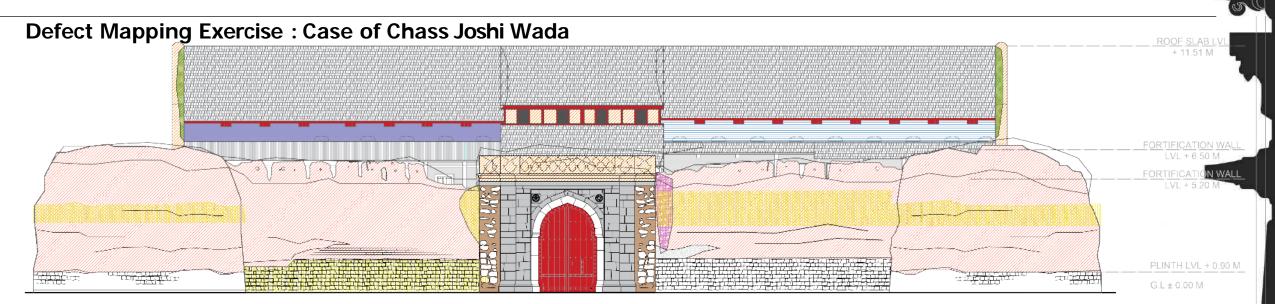
Work featured: ClassWork

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DEPARTMENT OF M.ARCH (ARCHITECTURAL CONSERVATION)

SUBJECT:- Structural Conservation I



EAST SIDE ELEVATION



WADA FRONT ELEVATION

DEFECT MAPPING
GLOSSARY

STRUCTURAL CRACKS EFFLORESCENCE
VEGETATION GROWTH MISSING CLAY TILES
BROKEN ELEMENTS DILAPIDATION
LCOSE MASNORY NEW ADDITION
OIL PAINT IMPROPER REPAIR
DISCOLOURATION DRY ROT
INPROPER POINTING ADOBE BRICKS

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2021-22

Work featured:

SUBJECT:- Structural Conservation I

Identifying the problems in Historic Structures



2021-22

Work featured:

ClassWork

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SUBJECT:- Structural Conservation I

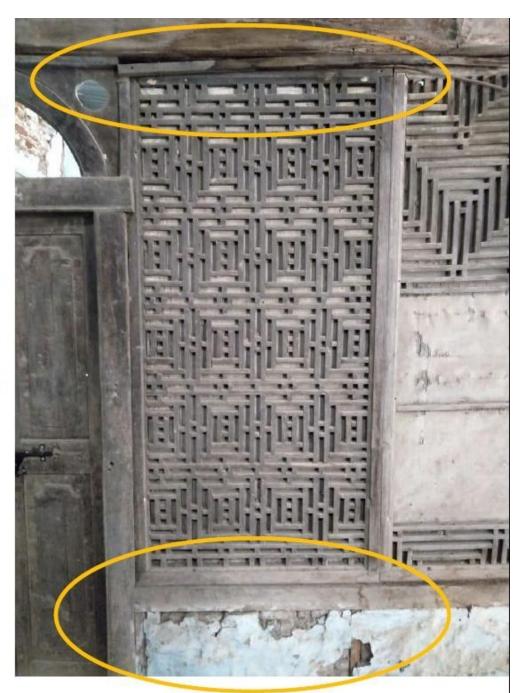
Identifying the problems in Historic Structures



Sardar Panse wada, internal spaces.

Damage due to natural elements.

- Wooden stairway is broken due to non maintenance and decay of wood.
- Wooden beams are sagging.
- Internal lime plaster is coming off and some brick masonry are exposed.



All pictures by author



Work featured: ClassWork

SUBJECT:- Introduction to Conservation

TOPIC- Critical Appreciation of a Conservation Project and design of new building in a Historic context – Case studies

PHOTOS BEFORE CONSERVATION







AIM

In the restoration process one of the principal aims was to retain as much as possible of the original fabric.

That included building elements such as walls, beams, pillars, and windows – these were to be repaired rather than replaced, and to be repaired in situ rather than rebuilt.

Where rebuilding was necessary, the materials were salvaged and reused.

Intact bricks were re-laid; broken bricks remixed and remoulded.

Wooden balconies and screens were re-assembled from the salvaged fragments, with some new timber sections pieced in where required.





Weathered woodwork was retained because it was still functional, and also because it spoke of the age and history of the building.

Traditional materials and construction systems which

included masonry walls and timber posts and beams with earth roofs, were to be used, both in the repair of the existing building and in the new-built sections.

New materials introduced were wiring for electricity, bitumen felt for waterproofing on the roof, and glass for windows.

THE LAMO CENTRE



F.Y.M.ARCH - SEM 1

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SUBJECT:- Introduction to Conservation

TOPIC- Critical Appreciation of a Conservation Project and design of new building in a Historic context - Case studies

CONSERVATION





EAST SIDE WALL AFTER THE RESTORATION





CONSERVATION









LOCAL CRAFTSMEN

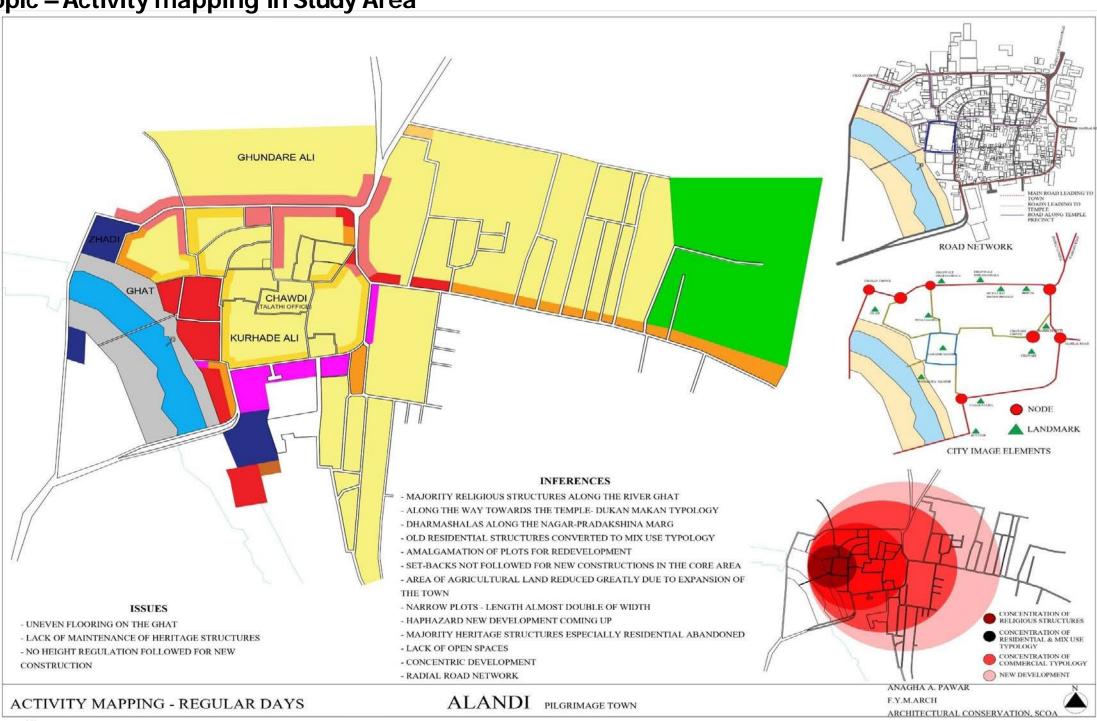
THE LAMO CENTRE

THE LAMO CENTRE

F.Y.M.ARCH-SEM 1

Studio Project – Urban Conservation Policies and strategies for Historic Pilgrim Town of Alandi with focus on Samadhi Precinct.

Topic – Activity mapping in Study Area



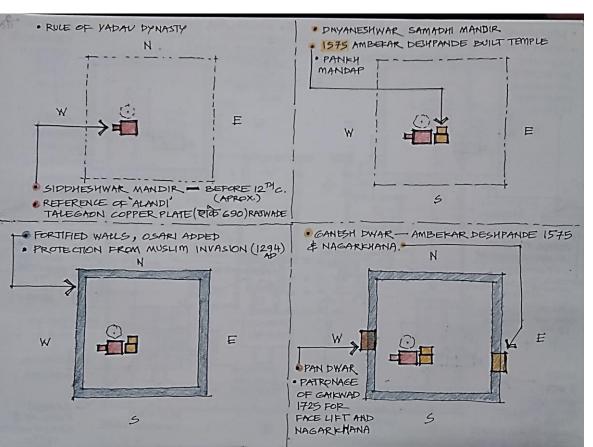
2021-22

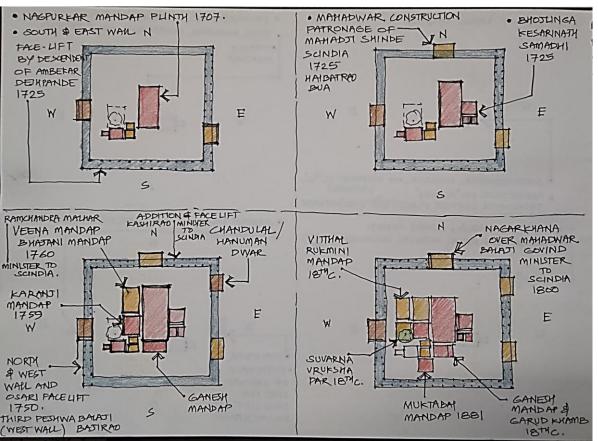
Work featured: ClassWork

F.Y.M.ARCH-SEM 1

Studio Project – Urban Conservation Policies and strategies for Historic Pilgrim Town of Alandi with focus on Samadhi Precinct.

Topic – Historic Evolution of Samadhi Mandir precinct

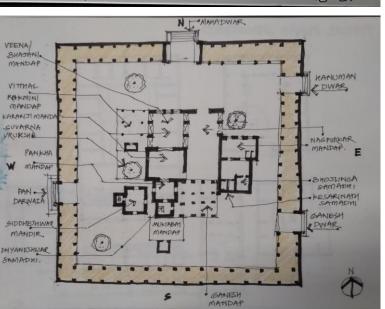




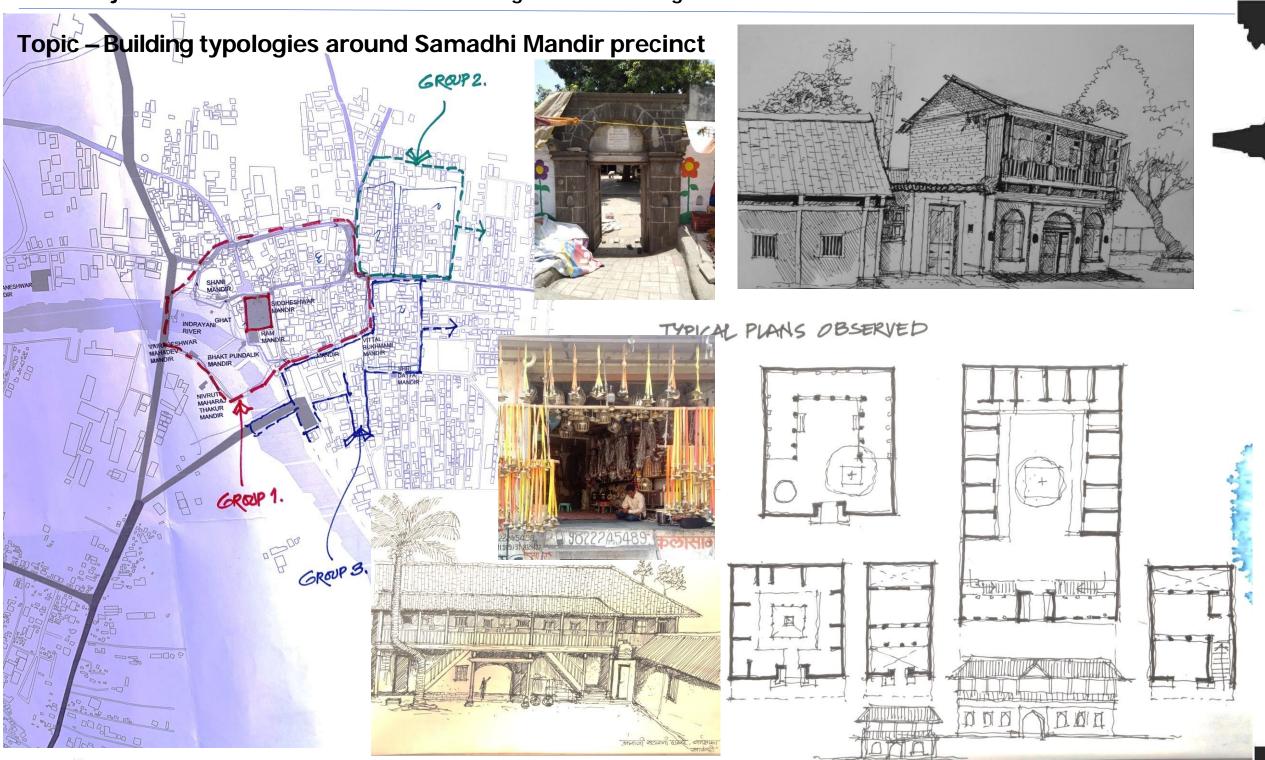




Work featured: ClassWork



Studio Project – Urban Conservation Policies and strategies for Historic Pilgrim Town of Alandi with focus on Samadhi Precinct.



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2021-22

Work featured: ClassWork

Studio Project – Urban Conservation Policies and strategies for Historic Pilgrim Town of Alandi with focus on Samadhi Precinct.

Topic – Building typologies around Samadhi Mandir precinct







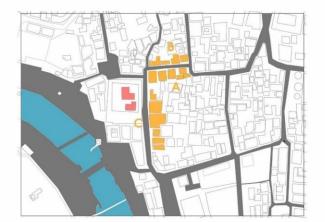








ELEVATION C



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STREETSCAPE - AALANDI



Work featured:

Subject – Conservation Management

Topic - Critical analysis of Conservation Management Plan of a World Heritage Site; Case studies

Sonderband 5

UNESCO-World Heritage Site "Frontiers of the Roman Empire: Upper German-Raetian Limes"

MANAGEMENT PLAN 2019-2023

Obergermanisch-Raetischer Limes **Upper German-Raetian Limes**

Management-Plan 2019 – 2023

BEITRÄGE ZUM WELTERBE LIMES





The 'Roman Limes' represents the border line of the Roman Empire at its greatest extent in the 2nd century AD. It stretched over 5,000 km from the Atlantic coast of northern Britain, through Europe to the Black Sea, and from there to the Red Sea and across North Africa to the Atlantic coast



The Limes in Germany cover a length of 550 km from the north-west of the country to the



R

Subject - History, Theory and Criticism

Topic - Book Review of renowned author and his contribution to Indian /architectural History

History Theory & Criticism

Book Review of:

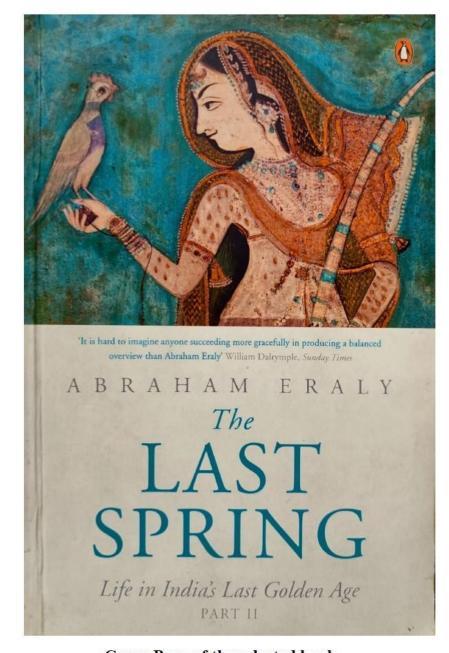
The Last Spring

Life in India's Last Golden age (Part II)

Year of Publication : 2007 Publication : Penguin Books, India

Faculty name: Ar. Sonal Chitnis Karanjikar

Submitted by :
Himanshu Subandh
09 | FY M. Arch | Sem 2 | AC | SCOA



Cover Page of the selected book

Work featured:

Book Reviews- Individual cases

2021-22

F.Y.M.ARCH-SEM 1

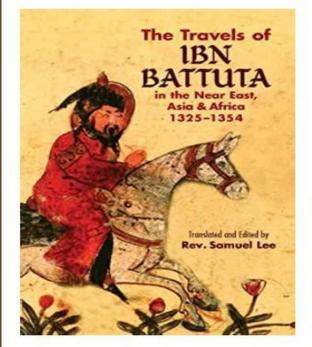
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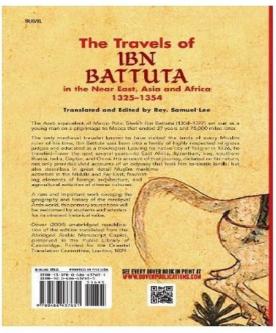
Subject - History, Theory and Criticism

Topic - Book Review of renowned author and his contribution to Indian /architectural History

THE TRAVELS OF IBN BATUTA 1325-1354

Translated by Reverend Samuel Lee, 1829





CHAPTER II [Egypt]
CHAPTER IV [Syria]
CHAPTER VI [Iraq]
CHAPTER VII [Persia]
CHAPTER IX [Yemen-Zanzibar-Yemen]
CHAPTER XII [Central Asian Steppes]
CHAPTER XIII [Byzantium-Afghanistan]
CHAPTER XVII [India]
CHAPTER XVII [India]
CHAPTER XVIII [India]
CHAPTER XVIII [India]
CHAPTER XIX [the Maldives]
CHAPTER XXI [India to the Indonesian Archipelago]
CHAPTER XXIII [To China]

Writer:-

Ibn Battuta (1304-c. 1377)

Translate from British Orientalist REV. SAMUEL LEE (1783 -1852)

Published by:-J. Jetley for Asian Educational Services, New Delhi

2021-22

Work featured:

Book Reviews- Vardhan Vadgave

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Subject - Research - (Theory)

Topic – Review of different types of Research papers with representative case papers

Tourism and Travelling, Volume 1, 2017



BUSINESS PERSPECTIVES



LLC "CPC "Business Perspectives" Hryhorii Skovoroda lane, 10, Sumy, 40022. Ukraine

www.businessperspectives.org

Received on: 5th of July, 2017 Accepted on: 1st of August, 2017

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Arun Sharma, Ph.D., Assistant Maharaja Agrasen University Baddi,

Suman Sharma, Ph.D., Assistant Professor, Tourism Management Central University of Himachal Pradesh, India.





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Arun Sharma (India), Suman Sharma (India)

HERITAGE TOURISM IN INDIA: A STAKEHOLDER'S PERSPECTIVE

Abstract

Incredible tangible and intangible heritage of India play a vital role towards the nation's overall growth and development. Ancient literature posse's sufficient references about the travelers, scholars and philosophers those preserved and portrayed the heritage for future generation which is apparently visible from various travelers' diaries, traditions and exhibitions. Despite a difficulty in finding out the right sentiment for expressing the true meaning of heritage, the concept of heritage has been explored to its core for an acceptable definition in this research study. This study suggests that heritage can act as an important holistic development tool for the overall community development. The opinion of stakeholders was recorded with the help of a questionnaire administered on local community nearby places of historic significance. The study provides ample scope and opportunities towards heritage tourism development in India as per stakes of local community. According to Mahatma Gandhi "A nation's culture resides in the hearts and in the soul of its people". Therefore local community has been considered as the ultimate ambassador for heritage and cultural tourism in this research paper.

heritage, preservation, community, stakeholder Keywords

JEL Classification Z30, Z32, Z38, Z39

INTRODUCTION

Over the past few decades, as the 'tourism studies' has emerged as an academic discipline, it has been dominated by other disciplines including economics, business and management studies. It has had very little time for the humanities, although it has accommodated important perspectives from geography, sociology and anthropology (Walton & Cooper, 2011). On the other hand, historians have recognized the potential significance of tourism's past for their discipline at a slow pace. They are not successful to identify the global (and globalizing) importance of tourism as a transforming set of economic activities as it has emerged as the largest and most persistent global industry of the new millennium. Literature recognized that both history and heritage are interlinked as "Heritage is the modern-day use of elements of the past and is not simply the past" (Timothy & Boyd, 2003). "Heritage is what contemporary society chooses to inherit and to pass on and history is what a historian regards as worth recording" (Turnbridge & Asworth, 1996). According to the Oxford English Dictionary heritage is something that can be passed from one generation to the next, something that can be conserved or inherited, and something that has historic or cultural value. Heritage might be understood to be a physical 'object': a piece of property, a building or a place that is able to be 'owned' and 'passed on' to someone else (Campanella, 2013).

FACT FILE

AUTHORS - Arun Sharma Suman Sharma

Tuesday, 26 December 2017 RELEASED ON

RECEIVED ON Wednesday, 05 July 2017

ACCEPTED ON Tuesday, 01 August 2017

KEYWORDS

Heritage, Reservation, Community, Stakeholder

ABSTRACT

Incredible tangible and intangible heritage of India play a vital role towards the nation's overall growth and development.

The concept of heritage has been explored to its core for an acceptable definition in this research study.

AIM

To Understand heritage as a holistic development tool for the overall community developement.

INTRODUCTION

Historians have recognized the potential significance of tourism's past for their discipline at a slow pace.

Literature recognized that both history and heritage are interlinked as "Heritage is the modern-day use of elements of the past and is not simply the past".

"Heritage is what contemporary society chooses to inherit and to pass on and history is what a historian regards as worth recording"

heritage is something that can be passed from one generation to the next, it can be physical thing.

There are also various practices of heritage that are conserved or handed down from one generation to the next. (Intangible Heriage)

20

Work featured: Himanshu Subandh



F.Y.M.ARCH-SEM 1

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Subject - Research - I (Theory)

Topic – Attempt of identifying research problem – Intent writing based on individual inclination of research

Topic no. 2. Analysing & understanding the differences in the planning & design of historic *Wadas* of the *Konkan & Desh* Regions of *Maharashtra*.

Aim: Comparative study of the residential typology of wada, in the Konkan & Desh Regions of Maharashtra.

Objectives:

- To analyse differences in the aspects of planning, space making of wadas in Konkan & Desh region.
- 2. To study architectural & structural elements and materials in context of Wadas in Konkan and Desh regions.
- To understand various spatial aspects of Wada typology in the context of Konkan & Desh region.

Introduction:

The architecture of wadas and Gadhis were one of the best examples of not only socio-cultural, economic status but also how the architectural design & planning was envisaged in terms of climate response and ecological harmony.

Maharashtra as a region has the great Deccan plateau, the coastline region or Konkan, the plains or the Desh surrounded by the Sahayadris, thus Maharashtra enjoys different climates within its geographical boundaries. The residential typology developed here, was in direct response to its immediate surroundings, ecology and climate and thus presents the same typology of wadas appear different in different geographical settings within the political boundary.

The Desh and the Konkan region are different in terms of climate and natural resources which are some aspects why the residential typology shows notable differences in their architectural design & Planning.

Aditya Mandgaonkar, Roll.no. 05, F. Y. M. Arch. Conservation, Sem-II, 2021-2022, SCOA, Pune

1) Topic One:

Broader Study area: Rejuvenation of the Sitar Galli in Miraj

Significance: (Classical) Music has been the backbone of India's rich culture. It has been living for thousands of years and has seen phases of evolution, glory and a continued popularity even today. Both Vocal and Instrumental music are highly celebrated across the globe. Though there seems to be a rise in instrument learners, the number of these instrument makers are limited to a few. It also happens that these craftsman belong to a few places in the nation. Miraj, is one(and only) such place in Maharashtra. In order to achieve the rejuvenation of these places, it is necessary to identify and study them in the first place. Hence, a research is proposed.

Title: Exploring traditional towns engaged in Sitar making in India

Aim: To identify traditional towns that are engaged in making Sitar in India.

Objectives:

- · To understand the emergence of Indian Classical Music
- · To learn about Sitar as an Indian Classical Instrument
- · To identify and study towns involved in making of Sitar
- To understand the possible reasons and patronage for making the instrument.

Papers and Links for relevant studies:

- https://www.kosha.co/journal/rebirth-of-a-pumpkin/
- http://ijetsr.com/images/short_pdf/1510499750_175-178ietep921_ijetsr.pdf
- https://homegrown.co.in/article/804913/the-musical-village-of-bengal-that-changed-the-craft-of-sitar-making-in-india
- https://www.jstor.org/stable/43297416
- https://zizekstudies.org/index.php/IJZS/article/download/980/1069

Work featured: Himanshu Subandh

2021-22

Work featured:Aditya Mandgaonkar

F.Y.M.ARCH-SEM 1

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Subject - Elective -II

Topic – Urban Design – Analyzing a historic town based on different theories and parameters

Historical Growth and Developments of the City of Lahore

The early settlements: The earliest authentic written source from pre Muslim times dates back to the 982 in anonymous geographical treatise, the Hudud al Alam, where Lahore is mentioned; as a shahr (town) populated by infidels with districts, markets, temples numerous and orchards. It was than a dependency of Multan, in the writing of Al-Biruni (1058-59), Lahore appears as the name of the proper territory, whose capital was Mandahukur or Mandakkakor. In the late 11th century it was a flourishing town, where a saint Sayed Al Hajveri resided.

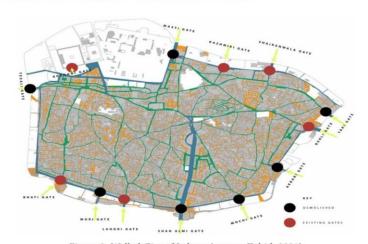
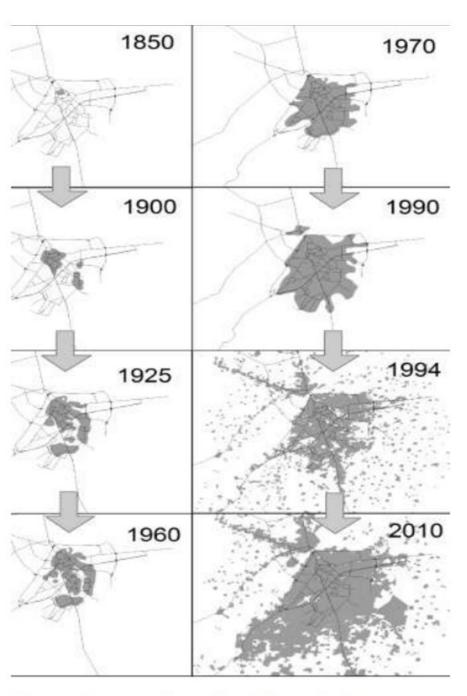


Figure 2. Walled City of Lahore (source: Zahid, 2021)

https://journols.vghu/l/index.php//JAM/criticie/downlood/15183/10892

ADITYA MANDGAONKAR ROLL NO.5. ELECTIVE-II. SEM-II. F. Y. M. ARCH. CONSERVATION. SCOA, 2021-2022

https://www.researchgate.net/publication/317559382 Analyzing the City Urba n Form of Lahore Pakistan through its evolution



The evolution and growth of the walled city

Work featured:
Aditya Mandgaonkar

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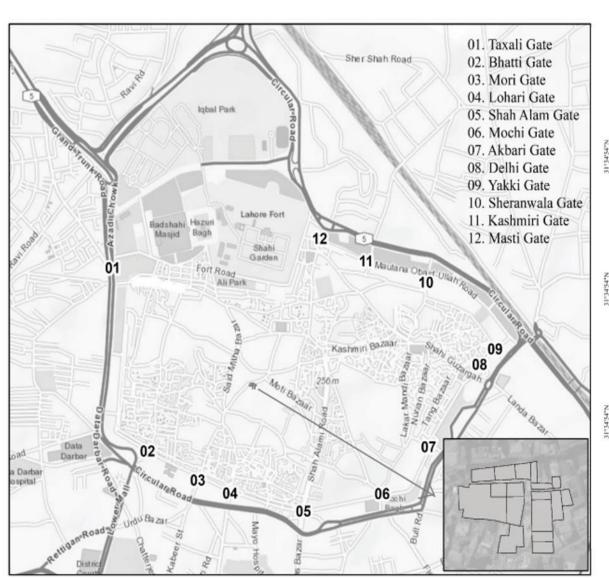
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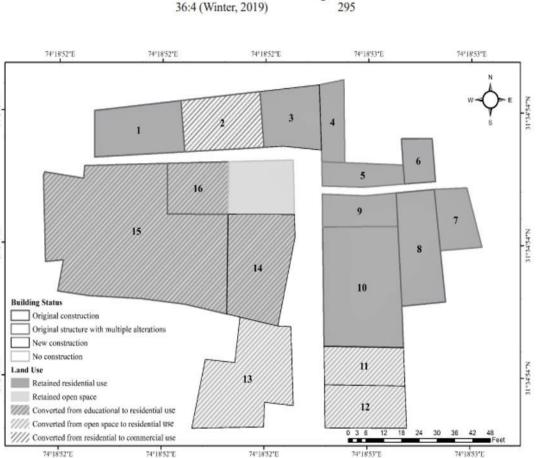
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Subject - Elective -II

Topic – Urban Design – Analyzing a historic town based on different theories and parameters

Journal of Architectural and Planning Research 36:4 (Winter, 2019) 294





Journal of Architectural and Planning Research

FIGURE 2. Transformations in Kucha Vahrian.

FIGURE 1. Location of Kucha Vahrian within the WCL and detail map (Source of base map: Esri GeoEye).

https://www.academia.edu/53289504/Urban Heritage of the Walled City Of Lahore Critical Analysis and the Way Forward for Policy

2021-22

Work featured: Aditya Mandgaonkar

F.Y.M.ARCH-SEM 1



ACADEMIC WORK

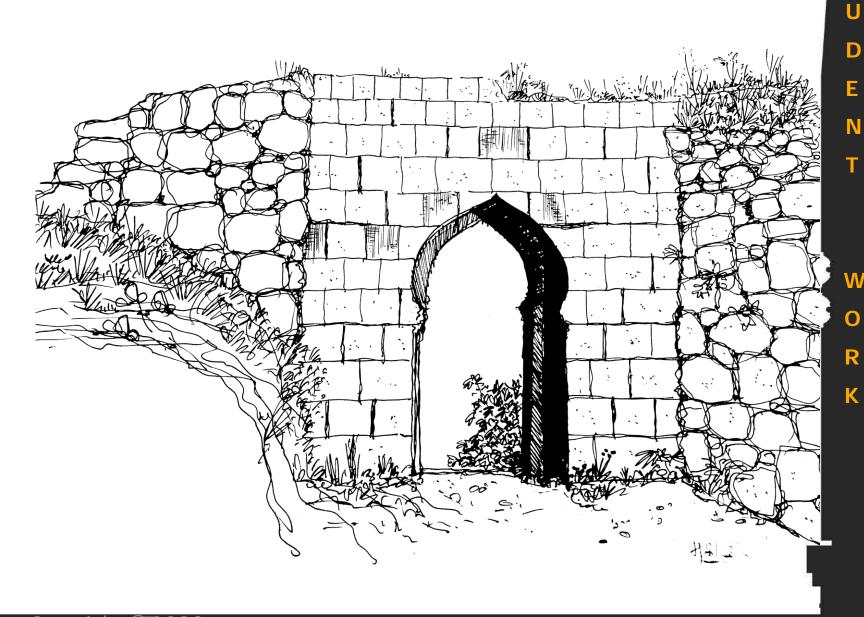
STUDENTS WORK OF

M.ARCH ARCHITECTURAL CONSERVATION

ACADEMIC YEAR 2021-22

Syllabus- 2019 pattern

Semester III and IV



Safeguarding the Colonial Rail- Cultural Landscape along Railway Route of Bombay Port – Poona Cantonment in Western Deccan region of Maharashtra.

S.Y.M.Arch -SEM III- 2021-22

DECCAN QUEEN

This studio exercise aims to explore the erstwhile GIPR rail route connecting Bombay Portislands in Konkan to Poona Railway junction along 4 cantonments of Deccan plateau dealing with the rugged mountainous route and developing the stretch favorable for Railway pit-stops and serving stations and railway towns/ colonies along as 'Infrastructural development' for the foresighted vision of economic development by British in India as their colony. This new railway culture strengthened the ancient network of routes pouring into Dakshinapath of the Ancient Buddhist period overriding the layer of Buddhism and Indo- Roman Trade by British colonial culture. This study route experiences technological challenges manicures through Industrial development shaping modern and industrial heritage into the picture of varied geographic terrain and harbors varied expressions of cultures with prominent factors/agents -. British Railways has had a long-lasting impact along this stretch to its zenith Early 20th Century and has found distinct tangible and intangible expressions along the western coast, the rugged Western Ghats, and further meandering plains of Deccan Plateau.

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2021-22

Work featured: Class Work

Studio Project - Cultural landscape studio

SHEET TITLE- PART I

INTRODUCTION

Railways are very significant heritage asset that became a driving force for the emerging economy during British period. It became a catalyst of social change that pushed through valleys and mountains to transport goods and passengers. Railways are also living heritage which is the connection we have to our immediate industrial past. The railway system including all the elements-architectural and engineering are of great value and falls under the category of modern heritage.

The concept of modern heritage, which includes industrial heritage is a recent revelation which goes beyond the focus on individual monuments. Conservation practices that started with a major focus on preservation of individual monuments has now changed. The advent of globalisation has given us a wider context to look at which includes sites, systems and networks that are remanence of experiences and processes of modernization. Modern heritage is defined by the UNESCO as "architecture, town planning and landscape design of the 19th and 20th centuries".

This includes Industrial and Modern Heritage sites which are key examples to understand human development during the time of rapid socio-economic and technical growth. Railway is one such example of modern heritage which has created huge impact in the society. Unfortunately, due to poor awareness regarding significance of railway as heritage many architectural and engineering assets are deteriorating. Therefore, there is an immediate need to critically look at railway systems to avoid complete loss of such rich heritage.



16th-century minecart, an early example of unpowered



https://www.historyextra.com/period/victorian/wherehistory-happened-the-birth-of-the-railways/



https://en.wikipedia.org/wiki/Rail_transport#/media/File:World_railway_network.png



A lithograph of the Great Western Railway, 19th century. The railways allowed us to "speed up existence". (Photo by SSPL/Getty Images)

SAFEGUARDING THE COLONIAL CULTURAL LANDSCAPE ALONG RAILWAY ROUTE OF BOMBAY PORT-POONA CANTONMENT IN WESTERN DECCAN REGION OF MAHARASHTRA



A British Railways Jacobite steam locomotive pulls a train across the Glen Finnan Railway Viaduct in Scotland. Photo credit: Shutterstock

* AIM

 To safeguard British Colonial cultural landscape along the GIPR Railway route between Bombay Port-Poona Cantonment in Western Deccan Region of Maharashtra.

* OBJECTIVE

- To understand the Landscape and natural setting of Western Deccan region in context of European Colonization.
- To understand evolution of British Colonial culture, its influence on socio-cultural aspects.
- To identify, study and delineate British Colonial Cultural landscape along the GIPR Railway route between Bombay Port-Poona Cantonment with different historic layers as well as cultural resources in relation to it.
- To establish significance of each cultural resources shaping the cultural-landscape and discuss issues safeguarding the same
- To formulate conservation plan to safeguard the identified cultural landscape with holistic approach

SCOPE AND LIMITATION

* SCOPE

 Scope of the study is to research, map and analyze how cultural landscape is shaped along the GIPR Railway route between Bombay Port-Poona Cantonment in Western Deccan Region of Maharashtra.

* LIMITATION

Due to the prevailing restrictions caused by pandemic, a holistic study of the region was not
possible. The study is limited to analyzing only railway culture along Bombay Port-Poona
Cantonment in Western Deccan Region of Maharashtra.

Faculty : Dr. Vaishali Latkar Ar. Sonal Karanjikar Ar. Poorva Patil Ar. Ruchita Belapurkar

Done by: Ramiya

Scale: N/A



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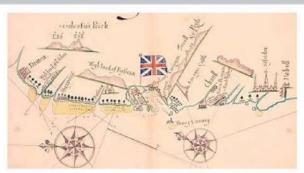
ic Year- 2021-22

Work featured:

ClassWork

Studio Project - Cultural landscape studio

SHEET TITLE- INTRODUCTION OF RAILWAY SYSTEMS AND ITS CONNECTIONS WITH INDIAN SUBCONTINENT



- Surat was also had facing 2 problems -
- 1. The silting of Tapi river
- 2. Maratha warrior Chhatrapati Shivaji Maharaj, who had plundered the
- TIMELINE OF IMPORTANT FACTORS -
- 1600: The British East India Company receives a Royal Charter from Queen Elizabeth I to trade with the East Indies
- 1665: Governor Humphrey Cooke, appointed by the Crown, acquires more islands-Mahim, Sion, Dharavi and Wadala-from the Portuguese
- 1668: The Crown leases Bombay to the Company, leading them to settle at Bombay Castle



In Bombay, company saw chance to turn Natural harbour into great maritime centre along India's

- Company understood need of the they established customhouse, a warehouse, a quay and a court, marking the very beginnings of a self-sustained urban center in Bombay and also started fortifying it.
- The 2nd governor who contributed to shift of seat power of western presidency from Surat to Bombay.
- The British invested in extensive public works, and over some sixty years the seven islands of Bombay were merged into a single land mass and Mumbai docks was the major infrastructure.

 During early of 19th century, there was also an explosive growth of railway networks in the subcontinent. The railways, in conjunction with the efficient maritime trade through the Suez, had a transformative impact on rural India.

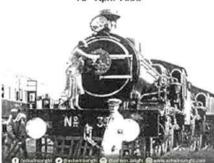
- Railroads were introduced to India for quicker and more efficient access to
- Before that trade was done by either roads or water ways.
- British introduced the first passenger train on 16 April 1853
- In 1862 British India steam Navigation Company formed and was given the preference for trade in India and overseas.
- 1915 Commissioning of the railway interfaced Trunk Railways

1916-22 - Construction of roads transit sheds, warehouses and



- To lower transport costs and to give English merchants easier access to raw cotton from India.
- Open the Indian market to British manufactured products such as cotton
- Railway construction started in 1853, with two "experimental" lines beginning in Bombay and Calcutta.
- Mostly radiating inland from the three major port cities of Bombay, Madras,
- It helped them in economic development of India by benefiting government with a return of 5% of its investment.
- It reshaped the status of both domestic and foreign trades in India by quick transportation of raw and agricultural goods.
- While the railway conveyed the huge might and power of the British and boosted India's efforts at commercial modernization, it did little to help local people in times of famine.

166 Years of the first train journey in India. 6th April 1853



web/167-year-of-indian-railway-on-13th-april-1853first-train-ran-in-india-4435267/

Faculty: Dr. Vaishali Latkai

Ar. Poorva Patil

Ar. Ruchita Belapurkan

BAILWAYS

Map of Indian railway in 1909 Source - https://www.environmentandsociety.org/exhibitions/faminesindia/infrastructure-and-railroads

Advertisement for the Great Indian Peninsular Railway for Poona races.



1853 - India opened new chapter with the debut of the first passenger railroad service which became part of India's vast Central Railway.

https://www.pinterest.com/pin/340444053051759375

- The first train started in Bombay and eventually all of India even the most remote parts were connected to each other by railway lines.

Done by: PRATIKSHAD.

SAFEGUARDING THE COLONIAL CULTURAL LANDSCAPE ALONG RAILWAY ROUTE OF BOMBAY PORT-POONA CANTONMENT IN WESTERN DECCAN REGION OF MAHARASHTRA

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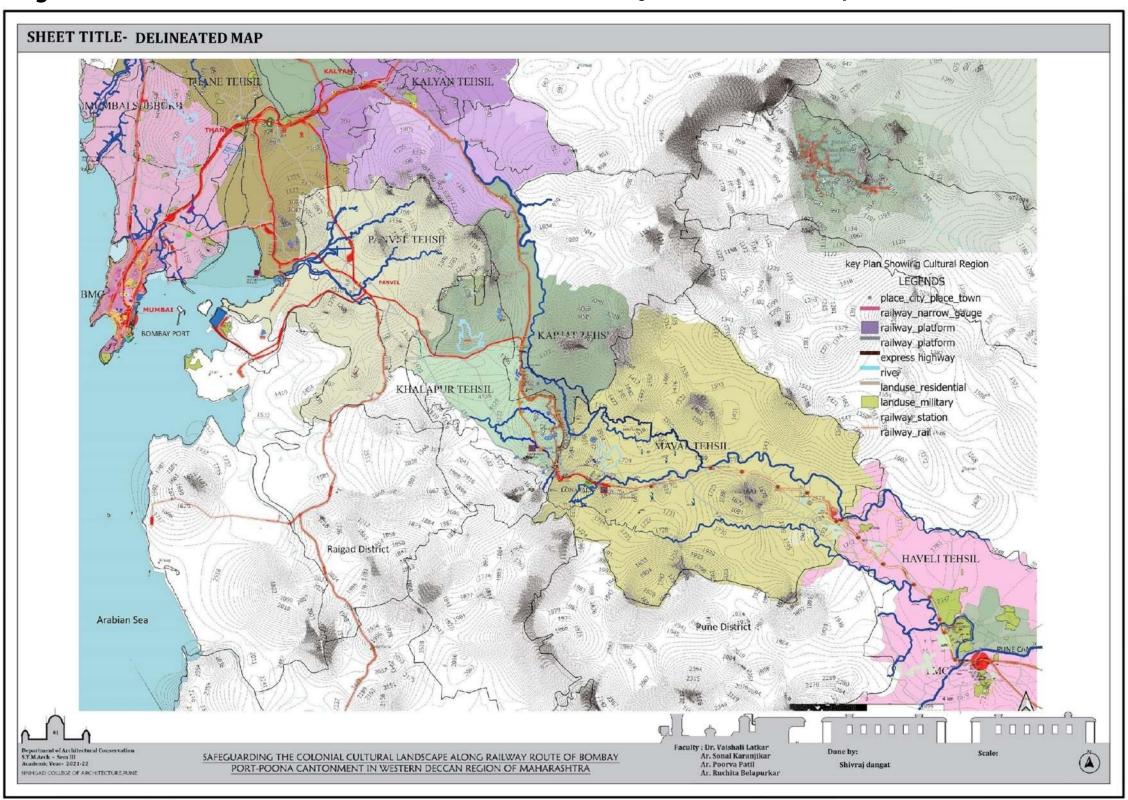
2021-22 Work featured:

S.Y.M.Arch - Sem III Academic Year - 2021-22

Studio Project - Cultural landscape studio

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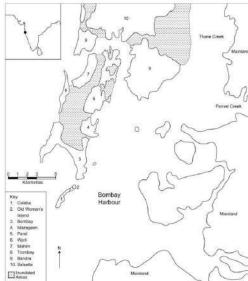
2021-22 Work featured:

Classwork- DELINEATED CULTURAL REGION - Deccan connected to konkan

Studio Project – Cultural landscape studio

SHEET TITLE- GEOGRAPHY, TERRAIN, CLIMATE OF CULTURAL REGION AND WHAT BINDS AS A CULTURAL REGION

BOMBAY:



A map of Bombay as it was before the reclamations began. Source : sciencedirect.com

CLIMATE: Tropical climate with average annual temperature of 26 degree Celsius. Humid and muggy weather because of its proximity to the Arabian sea. In some parts, such as Bombay and its immediate vicinity, it is exceedingly unhealthy, liver complaint being more frequent and fatal there than in any other part of India. Rainfall was between June to October, summer months were unbearable. Warmest month is May avg. temp. 29 deg C

INTRODUCTION: Originally a group of 7 islands joined by a stretch of swamp that separated during high tide (1660s). The seven islets - Colaba, Old Woman's Island, Bombay, Mazgaon, Parel, Mahim and Worli

GEOGRAPHY AND TERRAIN: Located at 18 Deg 53' North to19 Deg 16' latitude & from 72 Deg east to 72 Deg 59'. Irregular surfaces, presenting the diversities of low barren hills, mountainous tracts, valleys, and elevated table-lands. Partly rocky and partly marshy terrain. It had unhealthy marshy land with feverish swamps. Harbours were excellent, deep, without shoals and sheltered from storms



From a Surat-to-Bombay map by Benard, from Pierre de Pagès'
'Voyages Autour Du Monde', Paris, 1782; Source : Columbia.edu

PUNE:

INTRODUCTION: Poona, also called 'Queen of Deccan' after its elevated position atop the Deccan Plateau, it's pleasant climate and surrounding hills.

GEOGRAPHY AND TERRAIN: Pune (180 31' N, 730 51' E) is a plateau city situated near the western margin of the Deccan plateau. It lies on the leeward side of the Sahyadri. It is situated at a height of 560m above the mean sea level near the confluence of Mula-Mutha river. City is surrounded by hills on the east and the south. The Simhagad-Katraj-Dive ghat range is the southern boundary of the urban area. The highest point within the city is the Vetal hill (800 m) whereas the highest point of the urban area is the Simhagad fort (1400 m).



Map shows topography of Western Ghats. Source : The Indian Express



Map shows topography of Poona. Source: Past-India

CLIMATE: The climate is typical monsoonal, with three distinct seasonssummer, rains and winter, as elsewhere in India. The height above sea leveland the leeward location with reference to the Western ghats have made the city climate moderate and salubrious. The mean daily maximum and the mean minimum for the hottest month - May is 37 deg. C and 23 deg. C respectively. The evening sea breeze from west/northwest keeps the city summer nights at bearable levels. The same for the coldest month of December are 30 deg. C and 12 deg. C respectively. The relative humidity ranges from 36% in March to 81% in August. Three fourths of the annual rainfall of 70 cm occurs in just four months from June to September.

CHALLENGES DUE TO GEOGRAPHY, TERRAIN AND CLIMATE:

The scattered nature of the islands made communication from one island to another difficult. A number of distinct islands was open because large areas were underwater at high tide and during the monsoon season (June to September), when water discharged from Thane and Panvel Creeks to raise the harbour's sea level. At other times it was possible to cross between the islands on foot.

Bombay was cut off from its geographic hinterland. Even though climate of Pune was favourable for British, the inclination of geography made the journey difficult. The roads were extremely bad and affected the development of resources. Rocky and barren land possessed unhealthy climate .Rivers were not navigable

Partly rocky and partly marshy terrain. It had unhealthy marshy land with feverish swamps. Scarcity of Fresh water. Even rivers were so bad that many valuable articles of produce were often left to perish in the fields, while the cost of those that do find their way to Bombay became enormously enhanced, to the extent sometimes of 200 per cent. The vast numbers of sheep fed in Candeish and the Deccan, which are sent down to the Bombay market, not one-third reach the city alive, and those greatly reduced in flesh.

Department of Architectural Conservation
S.Y.M.Arch - Sem III
Academic Year - 2021-22
SINHCAD COLLEGE OF ARCHITECTURE.PUNE

SAFEGUARDING THE COLONIAL CULTURAL LANDSCAPE ALONG RAILWAY ROUTE OF BOMBAY PORT-POONA CANTONMENT IN WESTERN DECCAN REGION OF MAHARASHTRA

WHAT BIND THE REGION TOGETHER:

The British then had to build a link from the hinterland to India's major ports for quicker transport of cotton and other goods as demand soared. This expedited matters for the British to introduce a railway in India.

The tip of the ice berg was the 1846 crop failure in America, that led to huge export of cotton from India. Cotton was produced in various parts of the Indian sub-continent and it took days to bring it to the nearest port to transport it to England through ships, the only major means of international communication then.

On August 1, 1849, the Act to incorporate the Great Indian Peninsula Railway came into being.

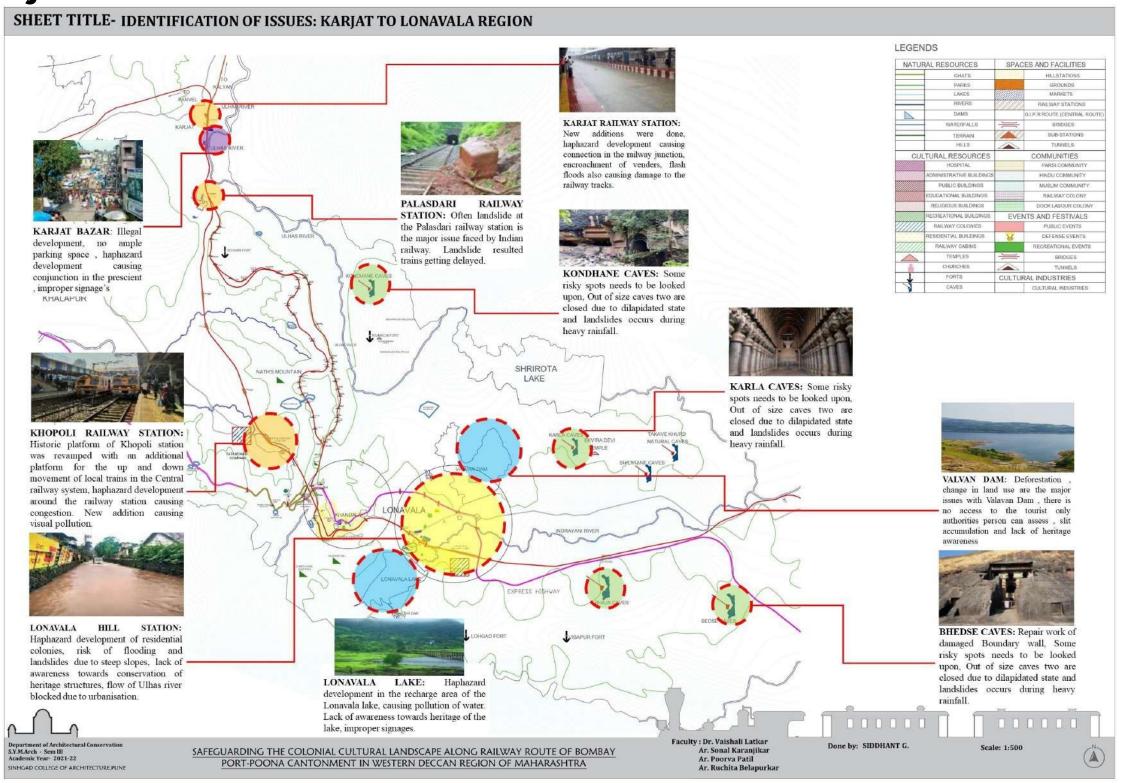


Work featured:

Classwork- International port city connected to military junction- headquarters of South command

Studio Project - Cultural landscape studio

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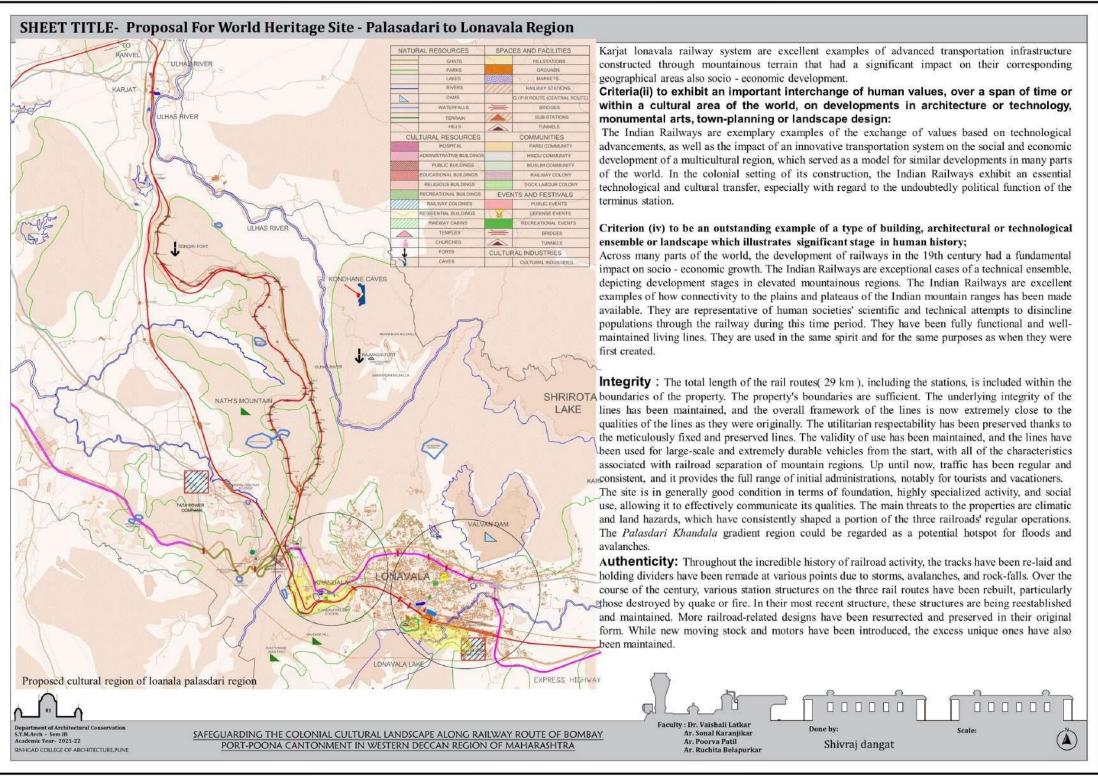


Work featured:

Classwork- Cultural resources

Studio Project - Cultural landscape studio

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Classwork- Statement of Significance

DEPARTMENT OF M.ARCH (ARCHITECTURAL CONSERVATION)

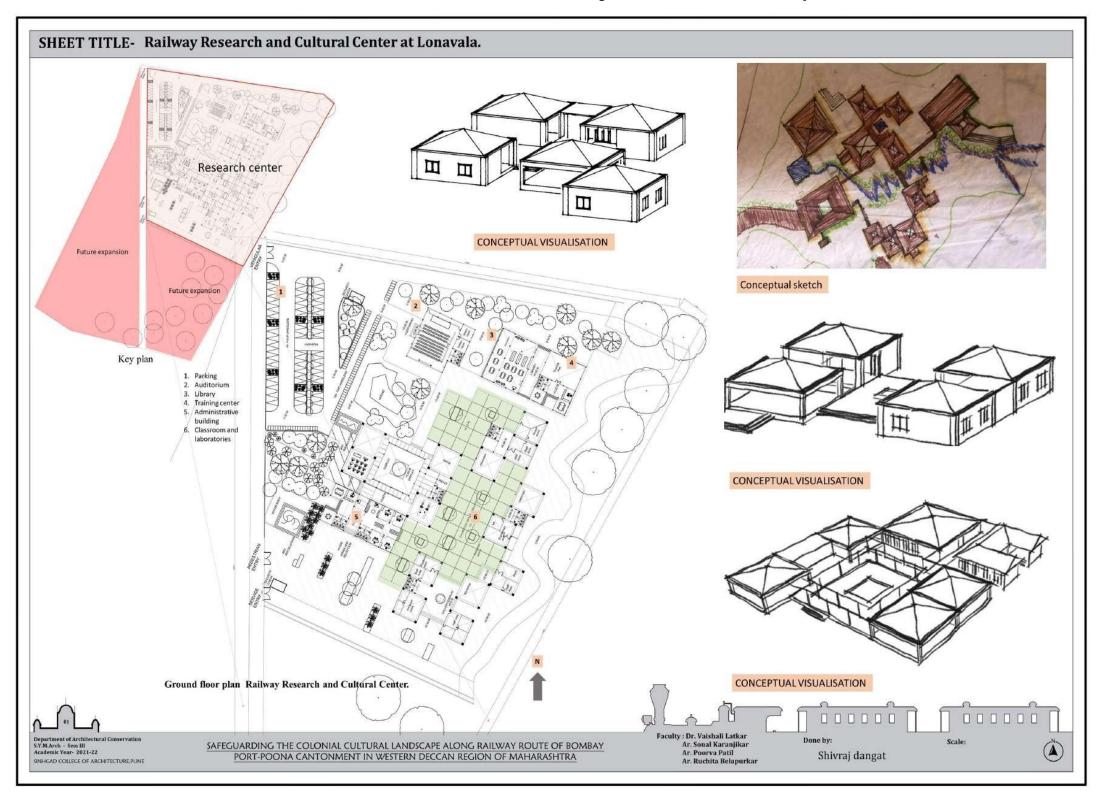
Subject – Conservation Studio III

Studio Project - Cultural landscape studio

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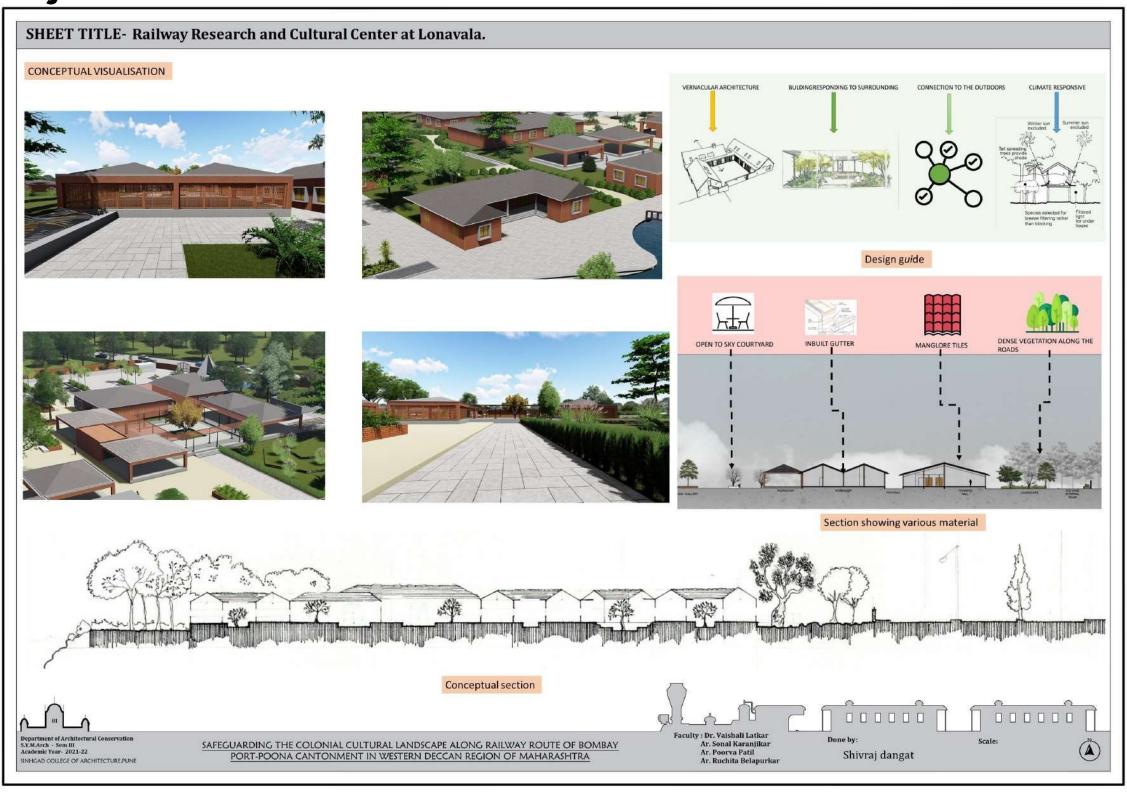


Classwork- Cultural resources – proposals at building level- resources level



Studio Project - Cultural landscape studio

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Work featured:

Classwork- Cultural resources – Bhor ghat reversing station

OBJECTIVE:

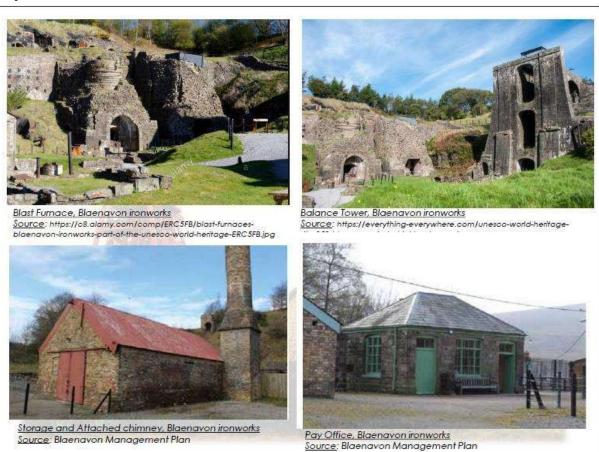
- To orient student to the concept of Cultural Landscapes from background till current trends of approaches.
- To orient students to the Indian context of interpreting culture and forms and meaning of landscapes through sacred geography.

UNESCO Cultural Landscape Case Study of Blaenavon Cultural Landscape

Blaenavon Industrial Landscape, South Wales, U.K.







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Characteristics of the site:

- •It is a "combined work of nature and man" in that man-made features were formed in response to the opportunities and constraints of the presence and disposition of minerals and the mountainous setting.
- •Its remains illustrate the way in which people were brought together in new forms of social relationships to provide for the needs of industry and grasp its opportunities, constituting "exceptional evidence of the evolution of human society and settlement over time".
- •It is "an organically evolved landscape which results from an initial social and economic imperative", namely the increasing pace of industrialization and its changing nature during the 18th and 19th centuries.
- •It comprises elements that are both "a relict or fossil landscape" and a "continuing landscape" that shows the marks of changes and developments during the era of industrialization and afterwards.



Work featured: Classwork-CASE STUDY

Subject — HERITAGE RISK ASSESSMENT AND MITIGATION

Objective – Students are made aware of the nuances of Disaster Management Aspects.

DISASTER MANAGEMENT PLAN FOR KHANDOBA TEMPLE COMPLEX, NIMGAON DAODI, PUNE

CHAPTER 3: RISK ASSESSMENT 3A. PHYSICAL VULNERABILITY

Due to climatic effects and human interventions many structural defects have occurred which needs to be catered.

Several structural damages cracks, broken elements due to human interventions and other defects are seen in the temple. Some of the elements in the temple complex are in dilapidated state. Oil paint can cause damage to the structure which causes seepage of water within the material









1) Broken stone steps 2) Broken Steps 3) Water Seepage in the wall (Later additions) 4) Water seepage (Water tank is a later addition)

These are physical vulnerability that are majorly seen in the temple complex which can be threat to the temple complex as well as a threat during some accidents.

There are other aspects like the water tank constructed in the premisses of the temple which is leaked and water flows continuously from it causing water seepage.

Also, due to the later additions of the walls to the cloisters, there is heavy water seepage during rainy season due to the absorption of water in the bricks damaging the fabric of the cloisters.

Source: Author

B. ENVIROMENTAL VULNERABILITY

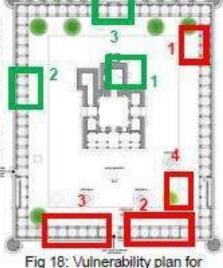
As Pune region comes in the Seismic zone 4, there are risk of seismic disasters, but the risk of earthquake in this region is low to the terrain and topography on which the temple is located.

Another aspects to look upon is the vegetation growth, moss growth in the temple complex due to water seepage. making a threat.









Khandoba Temple complex

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Due to climatic effect seen on the temple complex, 1) Vegetation growth, 2) Moss growth can be a threat to the structure in terms of risks that can arise in the future.

Other risk are the water seepage caused due to the new construction due to human interference.

Another major risk can happen is the collapsing of the Nagarkhana above the Kade Pathar Darwaja. The upper portion was broken due to lightning strike that happened in the past.



Though the area is not much prior to earthquakes, but a moderate earthquake can create disaster by collapsing the upper part of the Darwaja.

Work featured:

Classwork- Making of Disaster management framework

Subject - HERITAGE RISK ASSESSMENT AND MITIGATION

DISASTER MANAGEMENT PLAN FOR KHANDOBA TEMPLE COMPLEX, NIMGAON DAODI, PUNE

C. SOCIO ECONOMIC VULNERABILITY

As Khandoba is the family deity of many, there are certain socio cultural activities conducted in the temple complex like Tali Bharne, Gondhal etc. These activities are carried out either in the temple or in the cloisters in the fortification wall. Therefore, there are risks due to these rituals performing in these spots.

The economic issues are seen at the surrounding of the temple, commodities get manufacture like garlands to offer the deity which creates congestions in the spaces outs side the complex. Due to human interventions, vendors and other shops are added in the premises. These can risk to stampede during fire or other disasters.

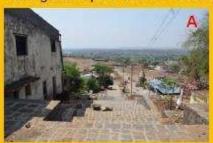




The rituals taking place in the temple can have risk based on the commodities used for the rituals. These commodities can cause disasters if not handled carefully. These human interventions need to be with at most care so as they should be avoided from happening any disaster.

E. ACCESSIBILITY VULNERABILITY

Accessibility to the temple is from three sides which conjugated at the points that can create crowds during festivals. These need to cater by a suitable management plan that can reduce the strain on the walkway to the temple





Source: Classmate S.Y.M.Arch. Author

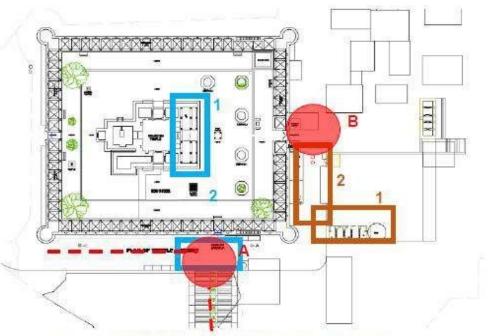


Fig 19: Vulnerability plan for Khandoba Temple complex

D. MANAGEMENT VULNERABILITY

Khandoba temple complex experiences management risk as some of the old buildings are converted or used as shops by the local people selling commodities around the complex.





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All these are human interventions causing change in the use of the buildings or later additions done. Due to these interventions, there are issues with the original fabric of the structure. The use of these spaces are not managed properly by the owners. There are no such structural issues seen other than the change in the use of the space.

HERITAGE RISK ASSESSMENT AND MITIGATION I S.Y.M.ARCH. CONSERVATION

Work featured:

Classwork- Making of Disaster management framework

Subject — HERITAGE RISK ASSESSMENT AND MITIGATION

DISASTER MANAGEMENT PLAN FOR KHANDOBA TEMPLE COMPLEX, NIMGAON DAODI, PUNE

3B. DAMAGES HAPPENED EARLIER

NATURAL DISASTER: LIGHTNING STRIKE

Nimgaon Khandoba Temple till date have experienced some minor flash floods, minor earth quakes. But the major disaster happened was when the lightning struck on the temple causing damage to the stone Nagarkhana on top of the KadePathar Darwaja.





Fig18: Damage caused to the Nagarkhana and the ruins

		NATURAL	DISATERS		
Sr.no	Area	Risk	Risk History	Cause	Remedy
1.	Kadepathar Darwaja	Lightning Strike	Upper part of the Door is collapsed	The stones are broken and damaged	Needs to give structural support
	Н	UMAN INT	ERVENTION	NS .	100
2.	Deep Maal	Human interferenc e	Some of the elements of Deep maal are broken	The parts are broken and are in dilapidated state	Needs to be conserved and fix

HUMAN INTERVENTIONS

Apart from natural disasters, there are certain man made interventions which can create risk or disasters. Also, due to human interventions, some elements like These intervention are seen in the outside of the campus where there is haphazard development leading to congestions, negligence towards the maintenances of the ancillary temple and other heritage structures in the vicinity.

Construction of new houses, shops can lead to stampede like situations in the near future. The use flammable material like nylon for covering pathways can lead to fire like situations.





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Fig 20: Human intervention in the temple premises

Source: Author

HERITAGE RISK ASSESSMENT AND MITIGATION 1 S.Y.M.ARCH. CONSERVATION

Work featured:

Classwork- Making of Disaster management framework

Subject -RESEARCH- II

WRITING A RESEACH PAPER - ALL STAGES FROM INDENTIFYING RESEARCH QUESTION TO TECHNICAL WRITTING

Sankalp

Shodh Sankalp Sinhgad College of Architecture, Pune

"UNDERSTANDING SOCIO-CULTURAL AND ECOLOGICAL RELEVANCE OF SACRED GROOVE IN WESTERN GHATS MAHARASHTRA- PANSHET VALLEY."

Ar. Shivraj Dangat, Ar. Sonal Karanjikar Sinhgad College of Architecture scoa@sinhgad.edu dangatshivraj.1998@gmail.com, sonalkaranjikar@sinhgad.edu

ABSTRACT

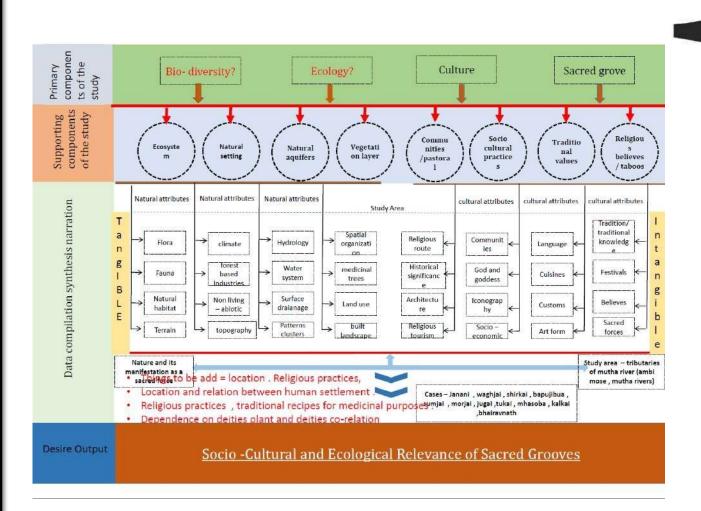
The present study deals with the ecological and socio-cultural relevance of sacred groves in the Western Ghats of Maharashtra, India. Geographically, the research area is limited to two river valleys in the Sahyadri Ranges to the west of Pune. This area is full of biodiversity and is a part of Western Ghat. They are located on the historical route connecting Konkan and Pune via Thipthipya Ghat Community-protected areas are known as SGs. The harvest of sources is restricted, even though they provide numerous direct benefits to the community. People could benefit from the healing properties of SGs as ethno medicines, as well as the use of lifeless and fallen timber, seed series for nearby forestation programmers, and restricted irrigation from a nearby water supply. Locals prepared and registered as a village forest safety and control committee to eventually perform the groves' healing work. In the valley of this river, there are also some Dhangar deities. Temples to these deities can be found at the intersections of the pastoral route. Bapyjibuwa, Viroba, and Masoba are the main deities in this temple. The Dhangars' traditional dance is Gaja Nach, which means elephant dance. An SG of Panphet which addresses relic vegetation of the space demonstrates that in case appropriate assurance is guaranteed a decent quality semi-evergreen forest can develop well.

KEYWORDS: Sahyadri, sacred groove, culture. Biodiversity

1 INTRODUCTION

1.1 Concept of the sacred groove:

The grooves were god's first temples where man learned to hew the shaft and lay the architrave. In the darkling wood amidst the cool silence, he knelt. (Bryant, 1848) (Gadgil M. a., Sacred groves in the Western Ghats in India, Economic Botany, 1976) Defined the SG's as 'sizable patches of forests where all forms of vegetation including shrubs and climbers are under the protection of the reigning deity, and the removal, even of deadwood is taboo'. They further state that this type of preservation of the entire vegetation in association with a deity is quite a distinct phenomenon from the preservation of isolated specimens of sacred tree species such as Peepal - Ficus religiosa and Umber - Ficus glomerata which are often preserved and worshipped even without any association with a deity. Religious belief and indigenous rituals have affected care and respect for nature in India, as well as other parts of Asia and Africa, since time immemorial. Every part of religious and cultural traditions is intertwined with the forest, which aids in environmental protection. These types of forests are associated with the concept of "holy groves." (khan,



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Subject -RESEARCH- II

WRITING A RESEACH PAPER - ALL STAGES FROM INDENTIFYING RESEARCH QUESTION TO TECHNICAL WRITTING



Shodh Sankalp Sinhgad College of Architecture, Pune

Purandare Clan of Saswad as Architectural Patrons

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ABSTRACT

The Clan of Purandare was important in the Seventeenth and Eighteenth Century who migrated to Maharashtra from Karnataka and were appointed as the administrator of the region of Pune and Saswad. The jaghir of Saswad was restored to Trimbak Bhaskar who ruled until it was taken over by Ambajipant Purandare and in this period the Purandare Family rose to prominence. Having a close bond with Balaji Vishwanath Bhatt, resulted in Purandare getting more power which enabled them in patronizing the field of Architecture. The paper explores the nature of patronage provided by Purandare.

The research is qualitative type, inductive and exploratory, and based on secondary literary sources with primary fieldwork with identified and studied built typologies.

The research concludes with the planning principles of the historic town of Saswad and the patronage provided for the temple activity including residential typologies.

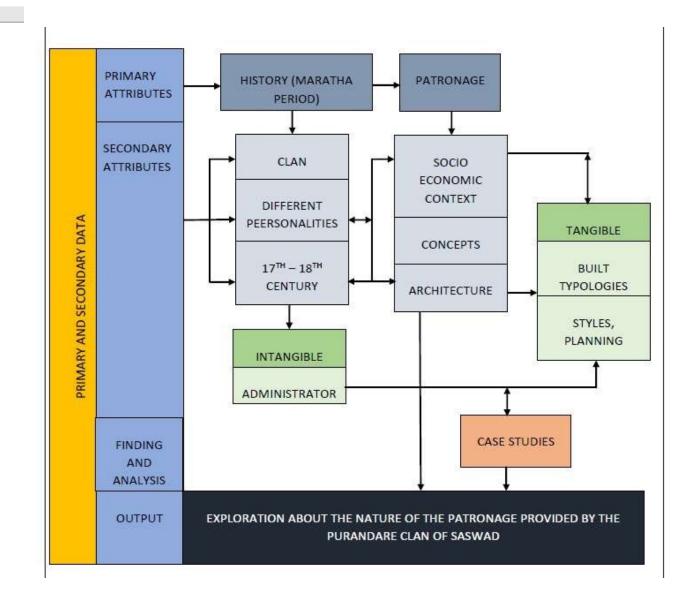
KEYWORDS: Purandare, History, Architecture, Patronage

1 INTRODUCTION

In the 17th Century, during the rule of Shivaji Maharaj, few trustworthy persons were given the post of *Sardar*¹ and villages were allotted as their jaghirs. One of the important families in the 18th Century who became the administrator of the Peshwa in the 18th Century was the Purandare and played an important role in patronizing in the field of architecture and developing Saswad as their administrative headquarter where several temples and Wada's were constructed under their monetarization.

2 HISTORY OF PURANDARE'S CLAN

The history of Purandare can be traced back to the 13th Century where Mudgalbhatt Purandare is said to be the forefather of the clan who migrated to Maharashtra from Kamataka as per (Purandare, 2021) In the 17th Century, the main person of this clan was Trimbak Bhaskar (Kasture, 2016) to whom the Sabnist Opurandare fort was given by Chhatrapati Shivaji Maharaj. After that, in the Maratha Land Purandare served



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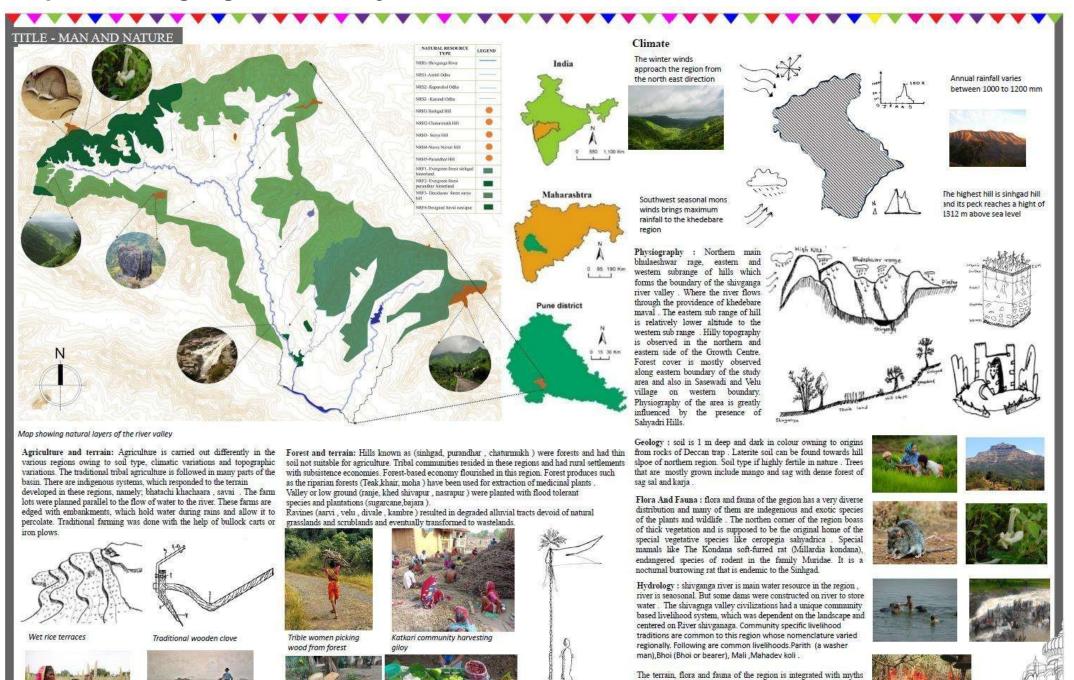
¹ Sardar- Elite class post who was administrator of a particular region

² Sabnisi- Business Officer

Topic —Safeguarding cultural resources of a cultural region by cultural landscape approach-Sacredscape of Shivaganga River valley

Traditional knowledge system		Description	Location / plan	Sketch	Photograph
Traditional	Step well	Traditional Water harvesting practices There are many age- old-practices of harvesting water in the country, basically to collect rainwater, restore surface flow of water, ground water recharging, etc. These are based on simple technology and defined management principles. A step well is exactly what it sounds like- steps down to a well.	See Section of the Se		
water harvesting practices	Check dams	Shivganga is seasonal river, for irrigation purpose there is no other source than the river itself, thus various check dams and irrigation system were developed in this region, first dam were constructed by the jijabai bhonsale at shivapur.	Design of traditional plough in different part of India	Salebu dan Den vali	सार्व्यक वे भावर
Traditional agricultural practices		Traditional agricultural practices In many areas of the country, traditional agricultural practices are still considered important. These practices are followed in selection of crop varieties, land selection, land preparation, soil fertility management, pest and disease management, irrigation, harvesting, post-harvest management, seed preservation, etc. Moreover there are different tools and implements used for the purposes, some of which are mentioned below. There are different shapes and sizes of ploughs and hoes used for tilling of soil, which varies from region to region based on soil quality, terrain condition and the crop used for cultivation. Not only that, with variations in the crop varieties, the tools used for harvesting also changes.	That Siles Freehold Construction Construct	Design of traditional plough in different part of India	
Traditional management of animal husbandry		Traditional knowledge regarding animal husbandry can be considered as old as domestication of various livestock species. But these practices are in vogue throughout rural India andthose are documented little and hence, there are possibilites of eroding out of these knowledge systems. For example, traditional practice of the feeding includes crop residues like straw, stalks, stovers, tops and crop thrush like wheat, paddy straw, etc as well as crop by-products that includes Bran, Husk, straw of Wheat, Rice, Bajra and Maize. Women have a very important role in the traditional method of integrating agriculture with animal husbandry.	88	Me Me	

Topic —Safeguarding cultural resources of a cultural region by cultural landscape approach-Sacredscape of Shivaganga River valley



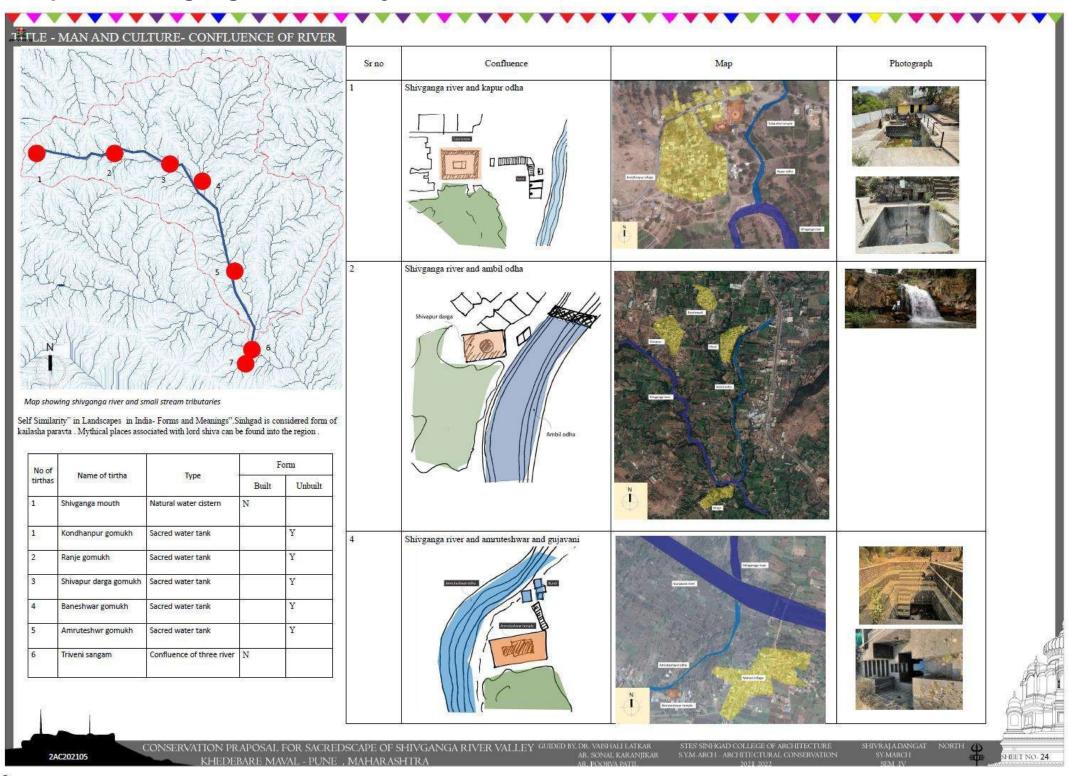
given to a very huge wooden pole like thing representing and legends forming a cultural region. The cultural region of khedebare is defined. A special focus on natural elements is given as in Hinduism, natural elements are sacralized (latkar 2014).

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Local womwn haervesting bajra

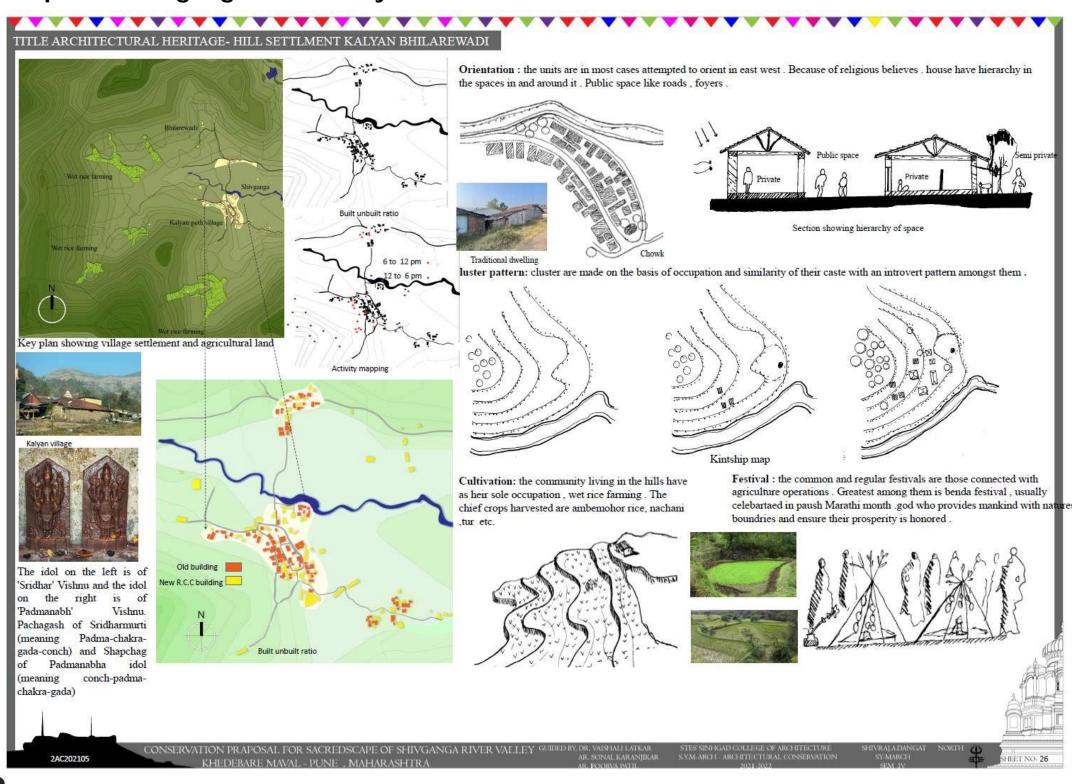
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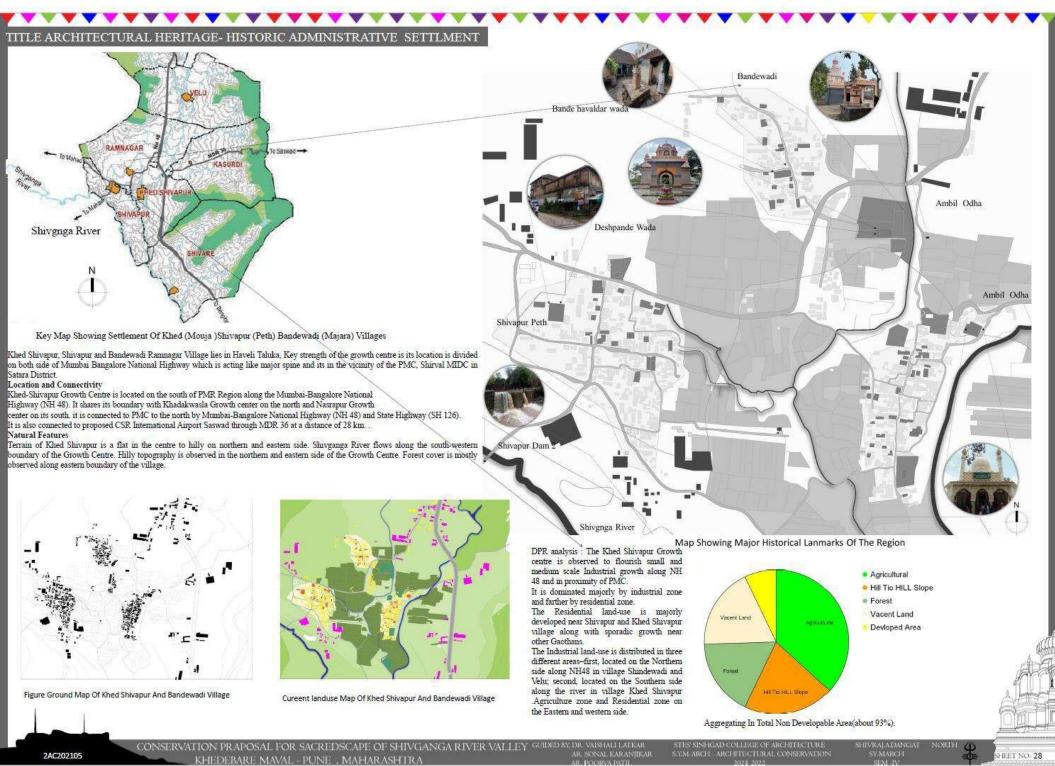
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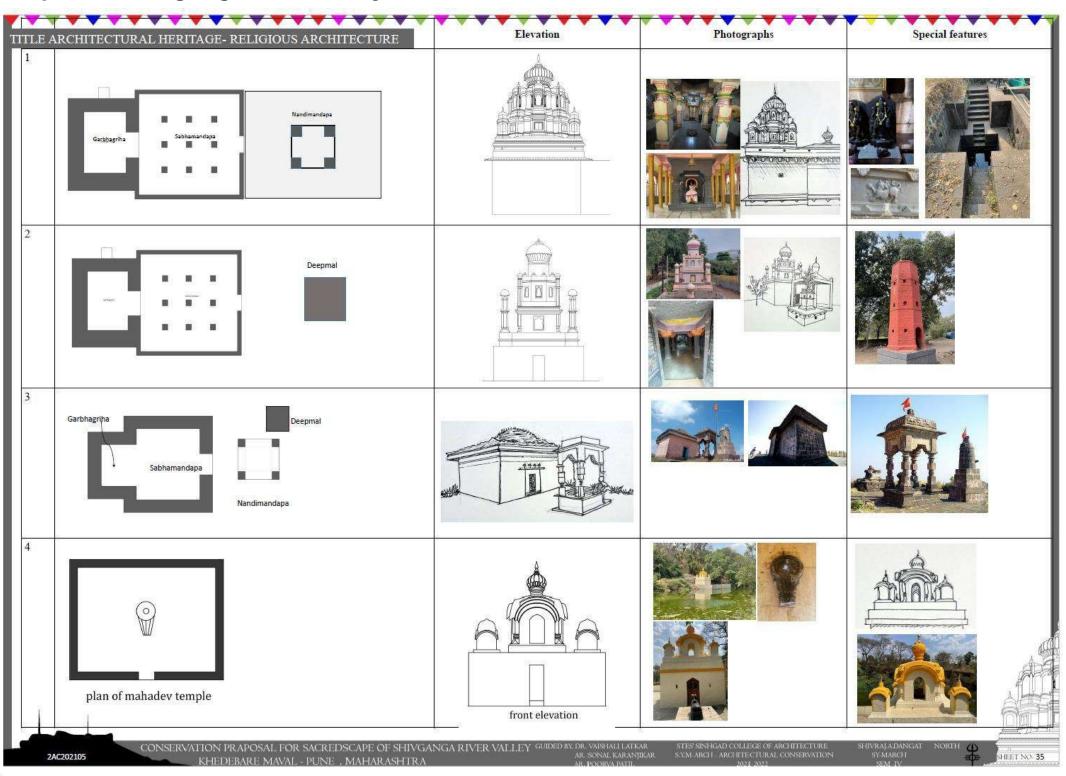


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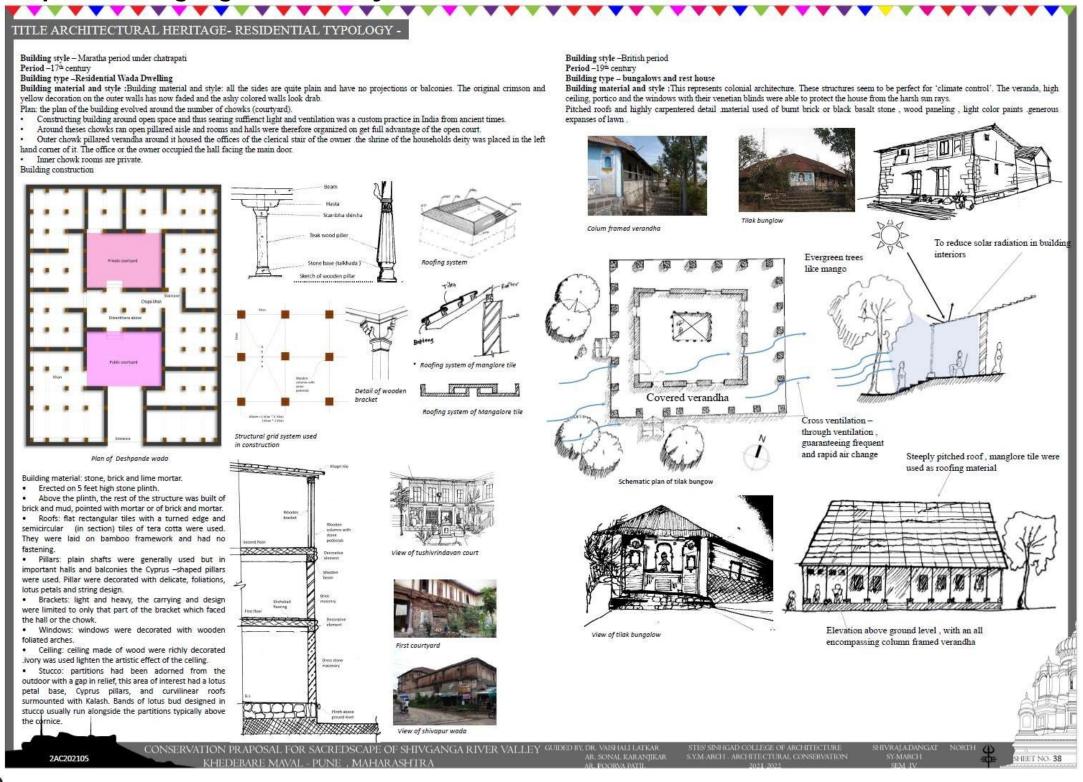
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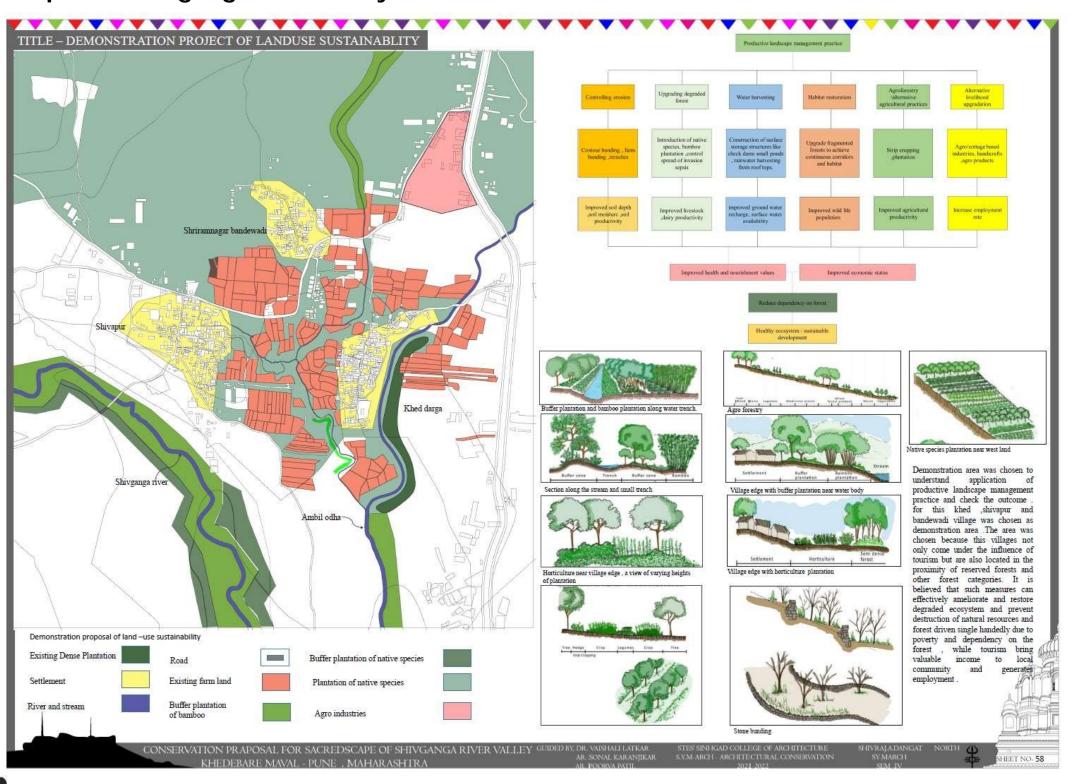
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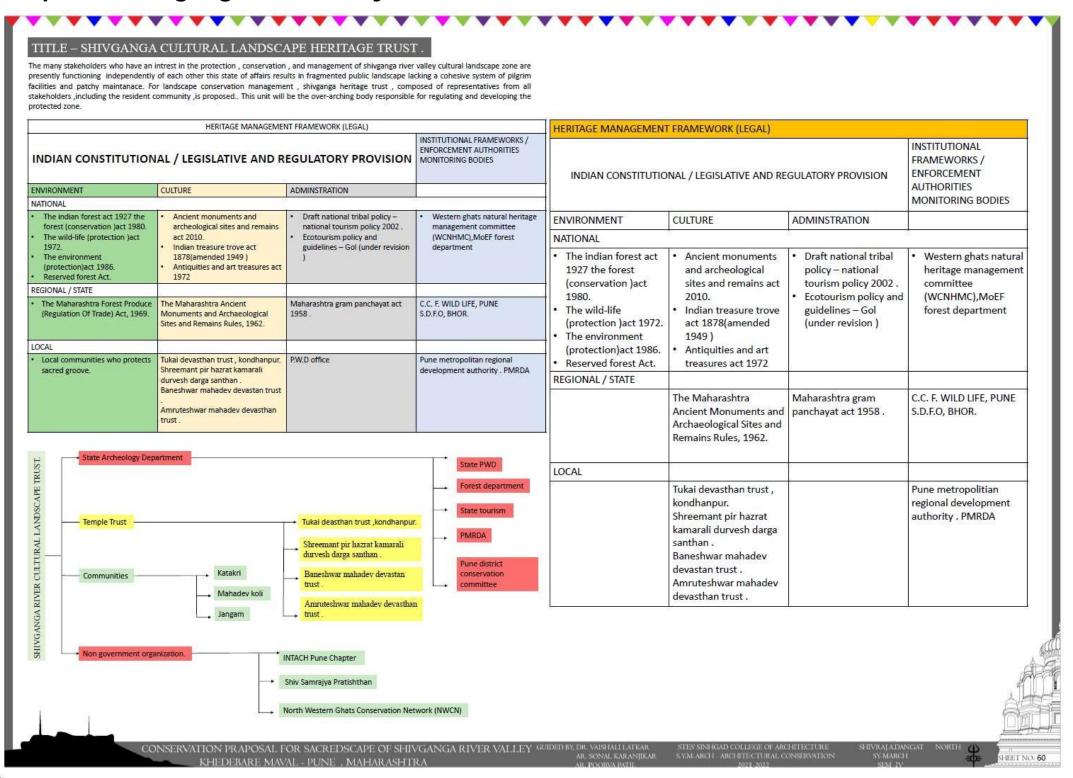


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Topic - Conservation Proposal for Historic Town of Saswad, Pune

METHODOLOGY: Primary Data will be gathered through field study carried on the site. The filed study will include Mapping of various aspects on town level, Inventories and Questionnaire filling from

After the long, narrow Bazar, its atmosphere incense laden from the many shrines, the road crosses a bridge near the large, and picturesque temple of Sangameshwar, with its triple spires, built upon a delta formed by the Karha and a tributary. Grouped around are some

The town of Saswad lies on the left bank of the Karha 38 km southeast of Pune through the Diva Ghat Pass. Shortly after emerging from the pass a large square, fortress-like building, about a mile from the road on the right, attracts attention and become the administrative headquarter of the Purandare Family in the Peshwa era. Saswad was the original home of the Peshwas on the Deccan, the first Peshwa Balaji Vishwanath died here in 1720. The

Purandare family also erected their palatial mansion known as Sarkar Wada here.

The History of Sasward can be traced back to the 13th Century but mainly evolved as a Maratha Town in the late 17th Century and emerged as the headquarters of an administrative region of Purandare's in the early 18th Century as it was restored to the royal family by Thorle Shahu Maharaj of Satara when Balaji Vishwanath Bhatt was appointed as the Pestiwa. With this, several responsibilities were allotted to the Purandare family which contributed to development in the field of architecture. The Purandare Family patron few typologies, out of which religious typologies can be prominently

The way this Maratha town has developed as a market street, with other mixed-use typologies and use case visible. The town lies in the vicinity of Pune as a suburban town because of which urban pressures and the exponential increase of population have caused a strain on public infrastructure, resources, and on the urban fabric and prominently Maratha layer can be traced through the built fabric of the town.

AIM: To formulate a holistic conservation proposal to safeguard the historic

sheet title introduction

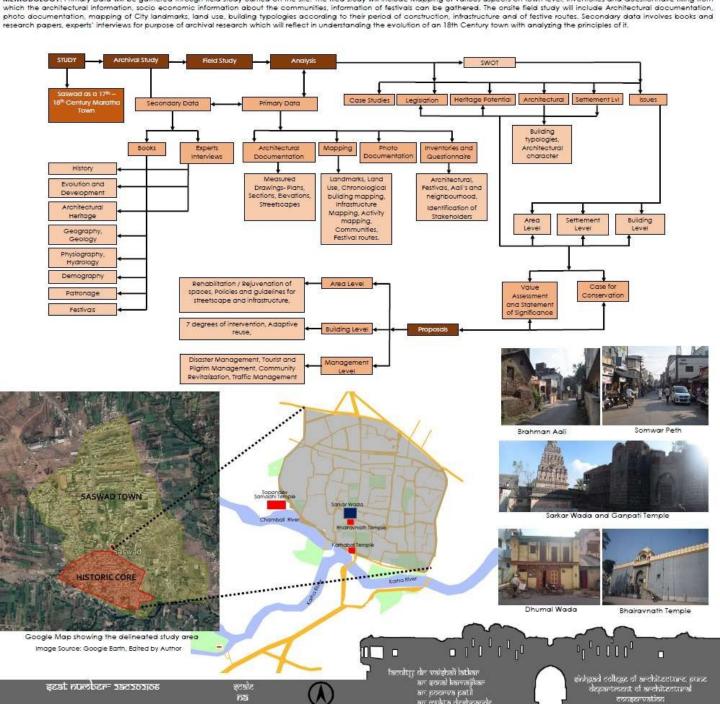
INTRODUCTION:

- To understand the various context of Saswad as an 18th Century Maratha town as an administrative headquarter
- To understand the evolution of the 18th Century Town, its settlement, and typological aspects of the historic town and establish the significance.
- To identify the heritage potential of the town based on settlement and character, mapping of heritage, and value assessment for the same.
- To understand the nuances of managing heritage through legal tools such as bye-laws and legislations, management skills with the involvement of
- To identify the issues of the historic town and give a holistic conservation proposal for the same.

SCOPE AND HMITATIONS

- The study includes archival research, mapping, and analysis of heritage of the historic core of Saswad which includes temples, Wada's, Bazars, Neighborhoods, and historic character, and analyze the heritage potential of the town. Through the study, problems are identified and an assessment is undertaken to provide a holistic conservation proposal with includes structural interventions, preparation of management plan, policies, and guidelines
- Due to the permission issues and the present state of Sarkar Wada, a holistic study and measure drawings was not possible. All the drawings of the structure are generated from reference plan Ground Floor Plan and videos on Internet.

conservation proposal for historic core of saswad, pune by siddhant gadade, symarch,

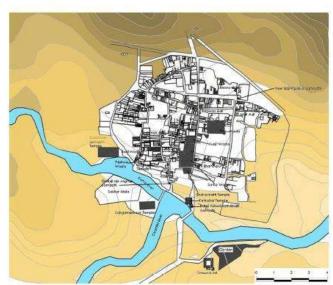


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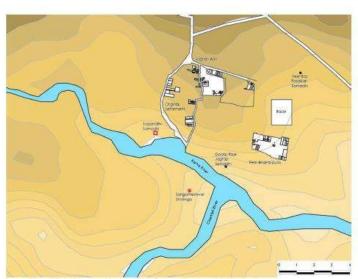
Map Showing development of Saswad around 13th Century

Saswad was physically founded by Lord Brahma by the establishment of Siddheshwar Shivalinga in the Mahabharata times. Saswad was profoundly known as Bramhapuri, until Sopandev took his Samadhi on the bank of Karha in 1296 AD and the land was renamed as Sanvatsar as mentioned in Dyaneshwari, with adequate dwellings near the Samadhi.



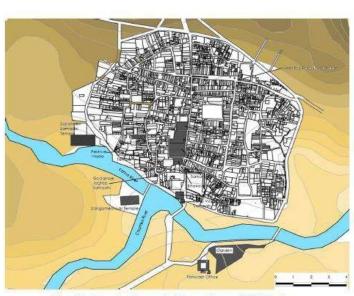
Map Showing development of Saswad around 19th Century

During the Colonial period, Saswad developed several new dwellings and other important buildings with the increase in the boundary of the village converting it into a town. The expanse of Saswad started to grow in the eastern part. The use of many heritage structures changed in the due of time and was prominently seen in this



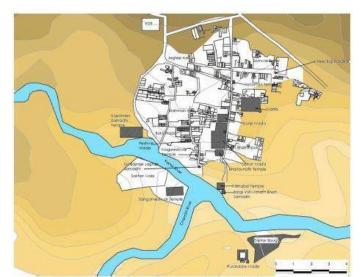
Map Showing development of Saswad around 17th Century

With time, the name Sanvatsar got changed to Sahawad and Satwad. Shivaji Maharaj when allotted the land of Badhale Village for Sopandev Samadhi for erecting a temple, a narrow path along with a subordinate route was developed with the route taken to reach the



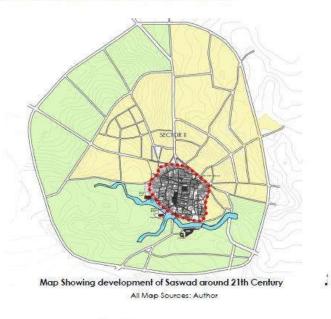
Map Showing development of Saswad around 20th Century

The historic care of Saswad is seen evolved with several Aali's and their neighborhoods, involvement of new materials for residences. The post-independence period witnessed a remarkable development in the field of industries and factories prominently of paper, handloom industries, etc.



Map Showing development of Saswad around 18th Century

Saswad became the administrative headquarter of the Maratha Empire for Supa Pargana having a strategic location and several administrators had their residences along with Purandare's Sarkar Wada. Linear access got developed with the establishment of Brahman Aali with the evolution of the settlement in the land.

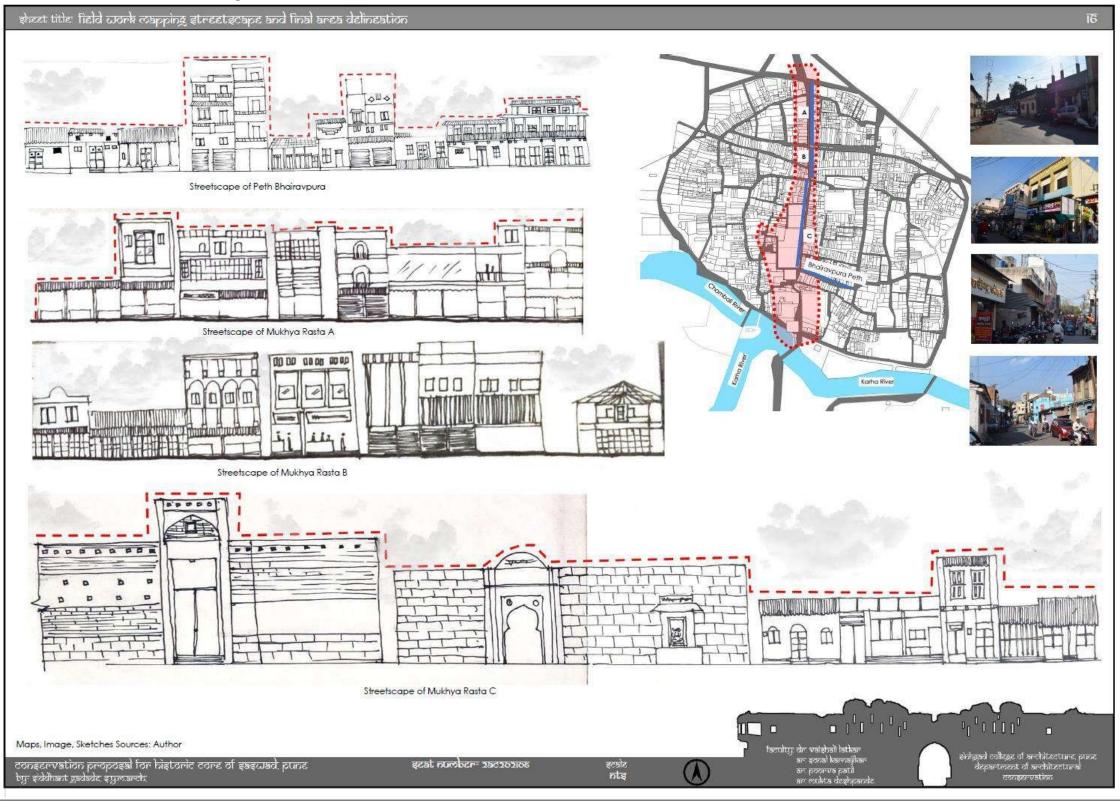


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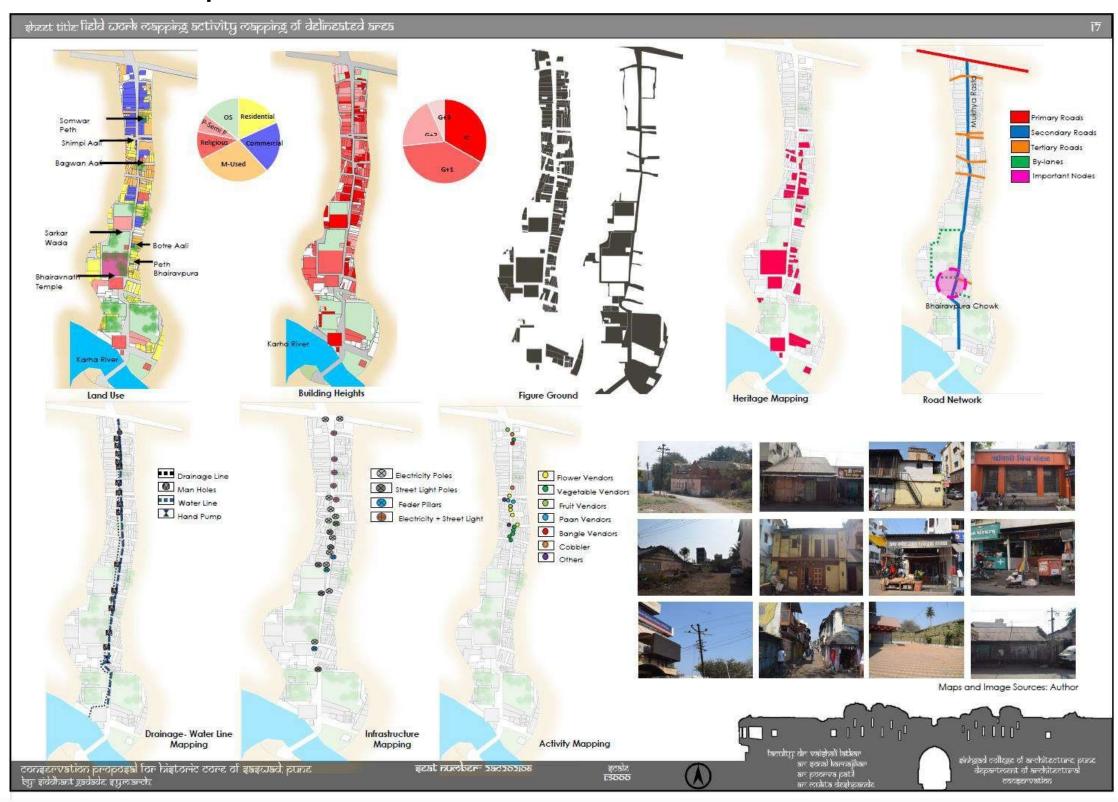
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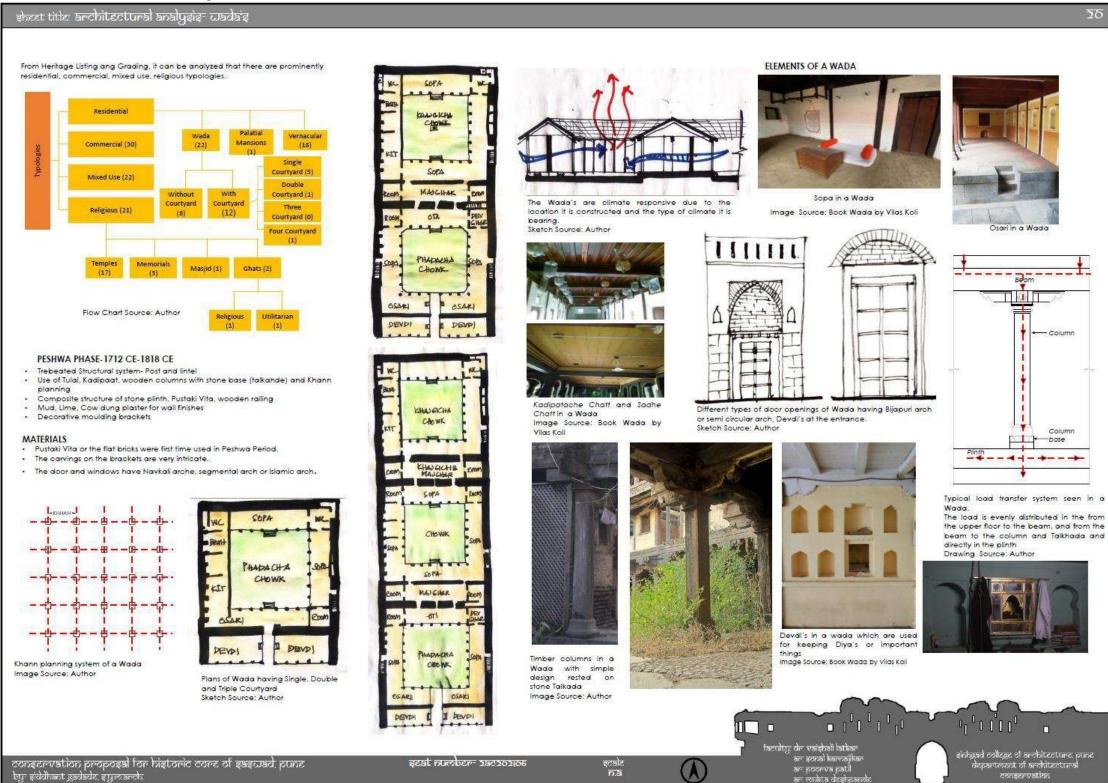


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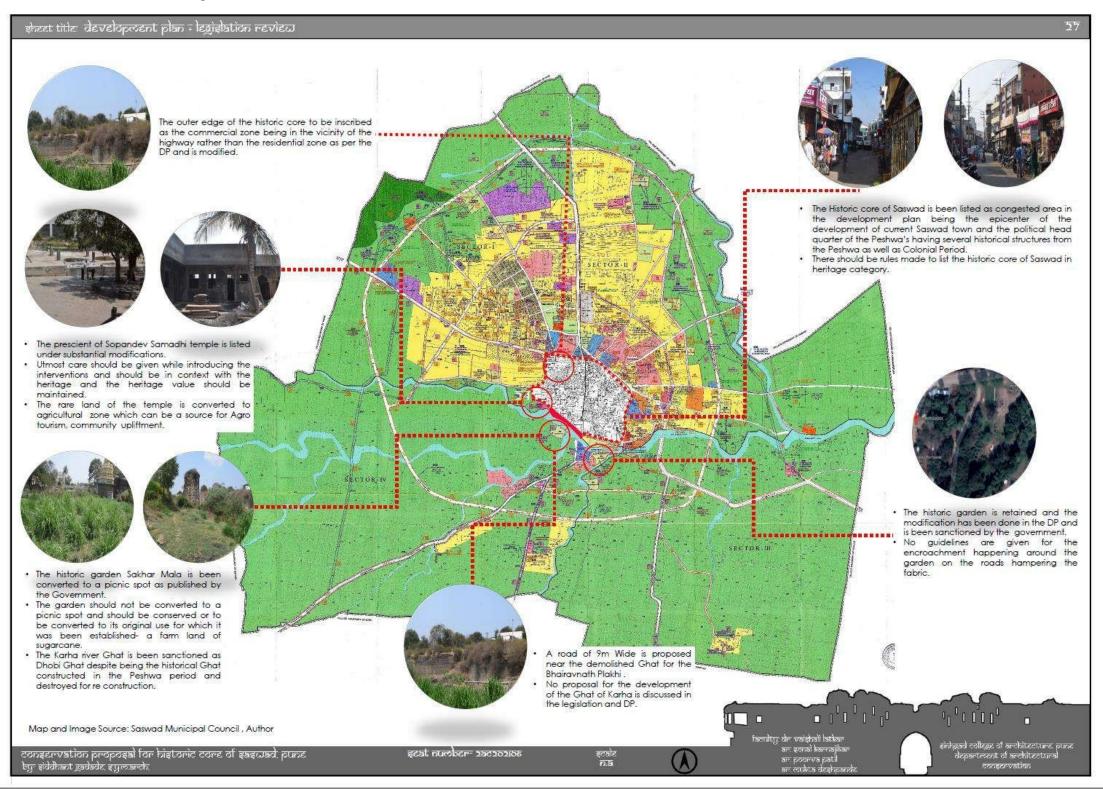
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Work featured: Siddhant Gadade

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