

# ACADEMIC WORK

STUDENT WORK OF

# M. ARCH. ARCHITECTURAL CONSERVATION

Syllabus- 2015 pattern

**ACADEMIC YEAR 2018-19** 

**SEMESTER-I to IV** 



Ĭ

STUDENT

# DEPARTMENT OF M. ARCH. ARCHITECTURAL CONSERVATION

#### Semester I- Conservation Studio I

Topic – Introduction

# Studio Project - Comprehensive Conservation Proposal for Aga Khan Palace precinct, Pune

ME MILESTONES IN MAHATMALI'S LIF

AT THE AGAKHAN PALACE

#### Who was Sir Sultan Muhammad Shah Aga Khan III ?

#### 1. Early Life

·He was born in Karachi, in British India (now Pakistan), to Aga Khan II and his third wife, nawab a'lia shamsul-muluk, who was a granddaughter of fath ali shah of Persia (Gajar dynasty). •Under the care of his mother, he received both the religious and eastern education which his position as the spiritual leader of the ismailis made indispensable and a sound European training. •The latter had been denied to his father and his paternal

•This blending of the two systems of education proved to be veryappropriate, as he led his community through times of change, including the end of British rule in India and the establishment of the state of Pakistan as a Muslim homeland. He also attended Bon and Cambridge university.

·He was one of the founders and the first president of the Al-India Muslim League, and served as President of the League of Nations from 1937-38.

•He is considered to be a founding father of Pakistan. Stressing the need for a progressive interpretation of Islam, he stressed its compassion, respect for human dignity and tolerance and did much to situate his community within the Muslim mainstream. ·His sons and grandson have continued a tradition of service to the international community through involvement in the United Nations, through diplomacy and through initiatives funded by the Imamate. His own life bridged the colonial period and the postcolonial period in India, where he spent much of his life. ·He successfully led his community during both eras, helping it adapt to changing circumstances. On the one hand, he was considered to be a celebrity.

 Owning racing horses, he moved comfortably in the company of rovalty and the wealthy.

•On the other hand, he was respected for his knowledge of Islam, for his philanthropy and for his commitment to human

#### Race Horse Owner

He was an owner of thoroughbred racing horses, including a record equaling five winners of the Epsom Derby, and a total of sixteen winners of British Classic Races. He was British flat racing Champion Ownerthirteen times









#### Why Aga Khan Palace Was Built ?

-Agaikhan palace was built in 1892 by Sir Sultan Muhammad

•It was constructed intended to be a source of employment for the famine-struck villagers in the surrounding areas. •It took about 5 years to complete the work and one thousand people were employed and the were given full hearted wages for their livelihood and 12 lakhs was the cost.

In the year 1969 Prince Karim & Hussenim Aga Khan IV came to India and donated this palace with surrounding land to the government of India Gandhi Smarak Nidhi, New Delhi.





The sprawling palace complex is located on Ahmednagar road. and is a spectacular building with vast open space in the font. t was built in the Italian style – with arches and spacious lawns – though it was also influenced by Islamic architecture







#### Aga Khan Palace And Surrounding Today

While the majestic building and the palace grounds attract a lot of visitors every day, the Aga Khan Palace seems to have been overshadowed by new developments. occurring on Nagar road, one of the most happening places in Pune. Several office towers, residential colonies, shopping malls, star hotels and other new buildings have come up along the road

#### Architectural Style And Characteristics

 Aga Khan Palace Has Italian Arches And Spacious Lawns.
 The Building Comprises Five Halls, It Covers An Area Of 19 Acres (77,000 M²), Out Of Which 7 Acres (28,000 M²) Is The Built Up Area.
•The Palace Captivates The Eve Of A Spectator With its

Magnificence And Picturesque Architecture.

•The Area Of The Ground Floor Is 1756 M2, That Of The First Floor Is 1080 MF, Whereas The Second Floor Has A Construction

•The Specialty Of This Structure Is its Corridor Of 2.5 Meters Around The Entire Building.

#### Aga Khan Palace Today-

. Today, The Palace Series As The Headquarters Of The Gandhi National Memorial Society And Features Several Exhibits, Including The Personal Belongings Of The Mahatma. •The Aga Khan Palace, Which Is Also AMuseum, Archives Several Photographs And Portraits Relating To Gandhi And Major Leaders Of The Freedom Movement. Some Of The Rooms, Especially Those Occupied By Gandhi, Are Out Of Bound For Visitors, Who Can, However, See It From Outside. •Though Gandhi Was Detained At The Palace For Less Than Two

Years, It Had AMajor Role During The Crucial Period Leading To Independence. In Fact, When The Late Filmmaker Richard Attenborough Decided To Make His Film Gandhi, He Shot Large Portions Of It At The Aga Khan Palace









Nagar road, which was formerly a namowitwo-lane road, has now been widened and localities along the artery - including Kalyani Nagar and Mman Nagar - have become posh areas

DR. VAISHALTLATKAR

AR SUNAL KARANJIKAR.



SHEET TITLE



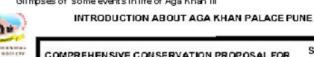
Reference s and gredits W.Somerse i Maugham/ 1954/The Memdrs O (Aga Khan (Historical Pholographs)

SIGN/STAME

Ar. Akshay Deshpande (Receni pholographs)

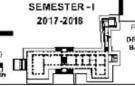
SINHGAD COLLEGE OF ARCHITECTURE FIRST YEAR MASTER OF ARCHITECTURAL CONSERVATION FACULTY.

STUDENT'S NAME KETAKI BADGE, MECHA BHUTTE, CHAITRALI DESHPANDE JAN HAYI DHAGE, JA YANTI GALAGALI, GA NESH GODSE SHIFA KHAN, RUTURAJ KULKARNI, MAN SHIMORE, TRUFTI NAK



COMPREHENSIVE CONSERVATION PROPOSAL FOR AGA KHAN PALACE PRECINCT, PUNE

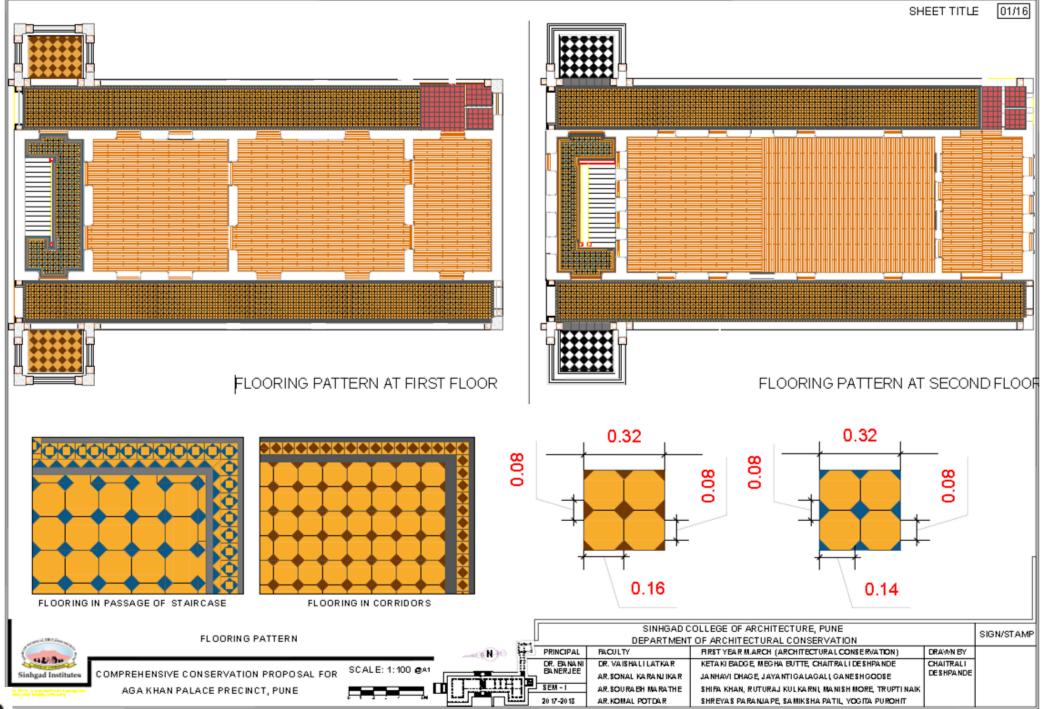




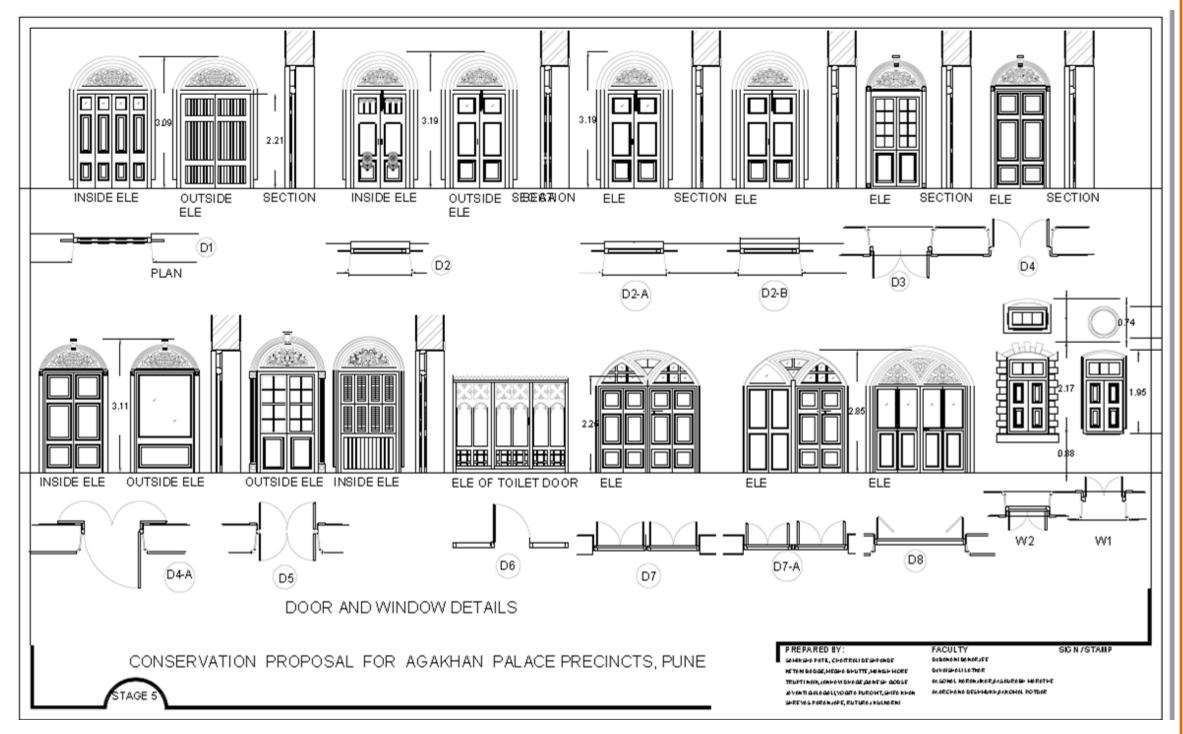


2018-19

Semester I- Conservation Studio I Studio Project – Comprehensive Conservation Proposal for Aga Khan Palace precinct, Pune

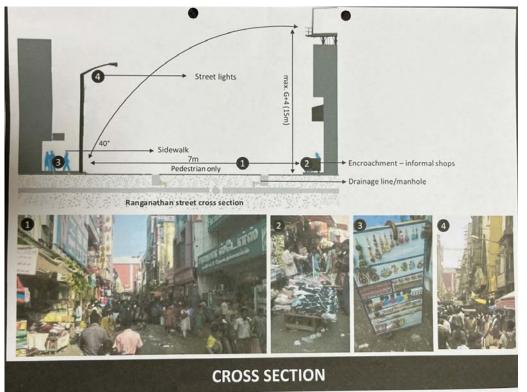


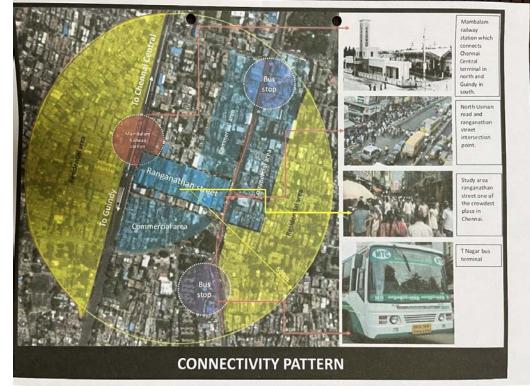
Semester I- Conservation Studio I Studio Project — Comprehensive Conservation Proposal for Aga Khan Palace precinct, Pune

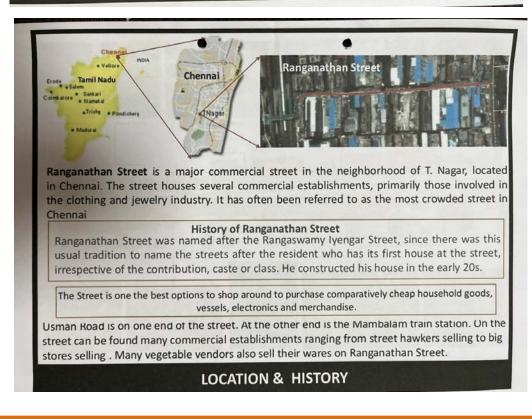




# **Semester I- Elective I**





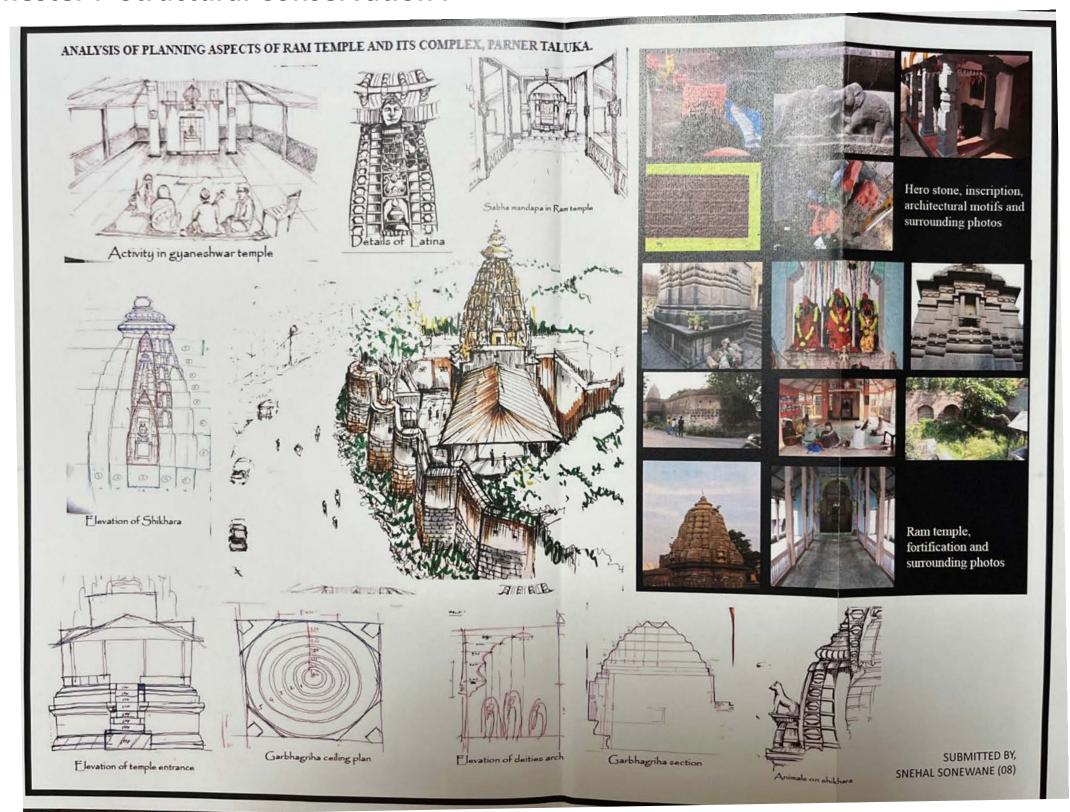






SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD COLLEGE OF ARCHITECTURE, PUNE-41

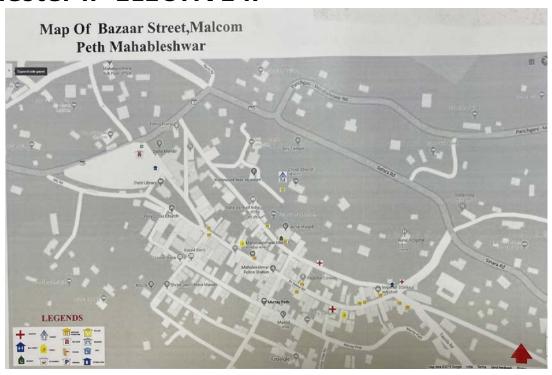
# **Semester I- Structural Conservation I**

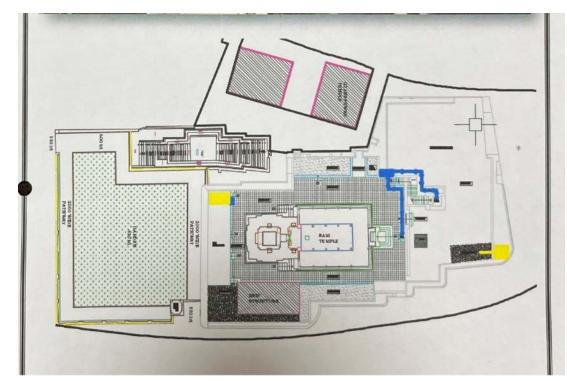


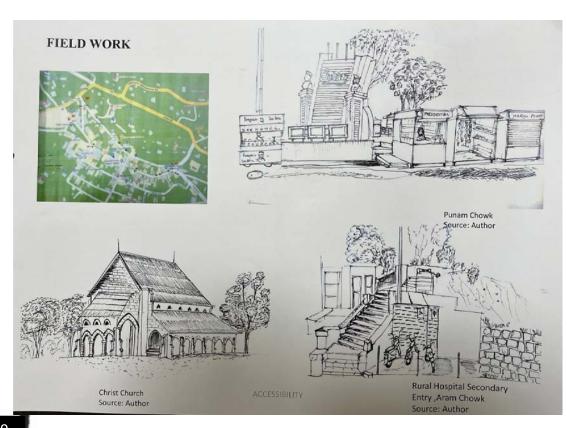


# **Semester II- ELECTIVE II**

# Semester II- STRUCTURAL CONSERVATION II





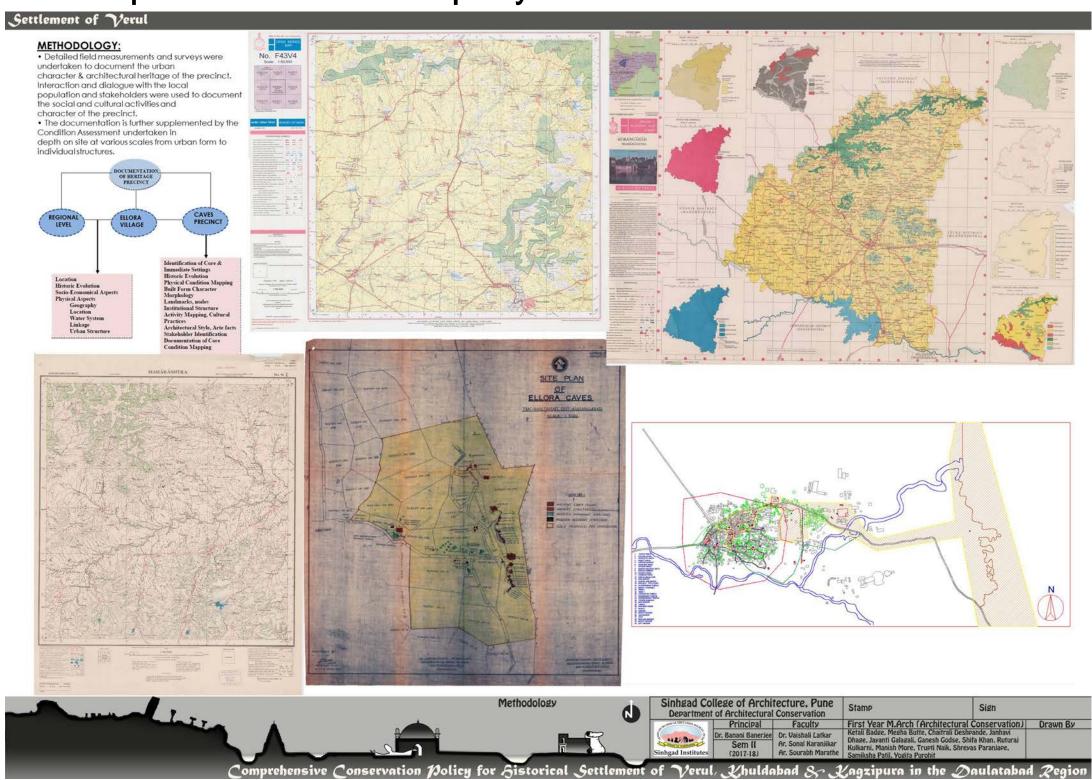






# **Semester II- STUDIO II**

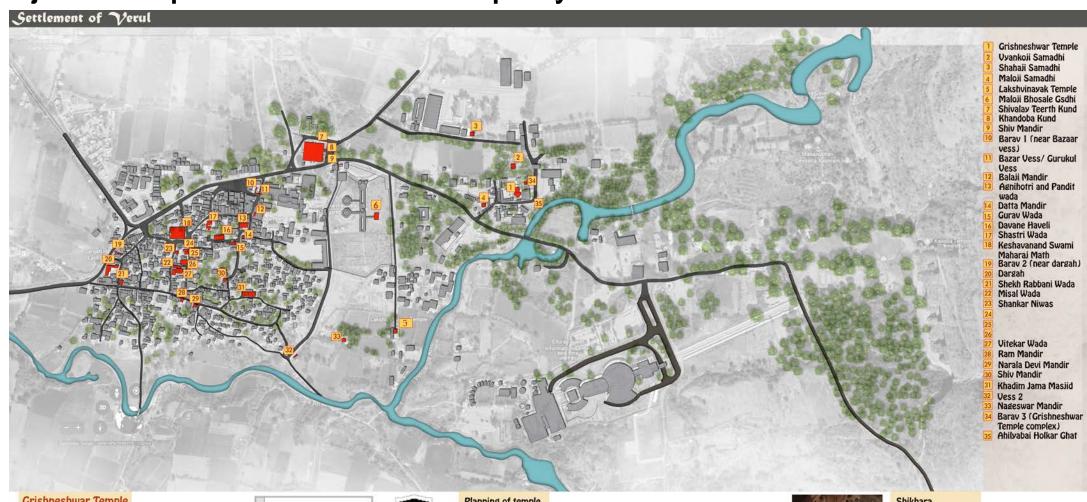
# Studio Project – Comprehensive conservation policy for historical settlement of Verul





# Semester II- STUDIO II

# Studio Project – Comprehensive conservation policy for historical settlement of Verul

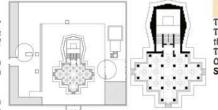


#### Grishneshwar Temple

Ghrishneshwar is an important Brahmanical religious center as it is believed to be one among the twelve jyotirlingas of the Indian sub-continent. The word Ghrneshwar means "lord of compassion".

The temple is an important pilgrimage site in Shaivism tradition of Hinduism, which considers it as the last or twelfth

The temple was existed during Yelraja Period (aarshtrakuta Period). This temple was destroyed by the Delhi Sultanate during the Hindu-Muslim wars of 13th and 14th-century. The temple was re-constructed by Maloii Bhosale of Verul. (grandfather of Shivaii) in the 16th century. The temple went through several rounds of rebuilding followed by re-destruction during the Mughal-Maratha conflict. It was rebuilt in the current form in the 18th century (between 1765-1795) under the sponsorship of a Hindu queen Rani



#### Planning of temple

Temple oriented North-South.

Temple has 2.5m ht compound wall to all four sides. We Entre into the temple through the Nagarkhana.

Temple constructed in Bhumija Temple Architecture.

On plan temple consist of Sabhmandapa (pillared hall), Antaral and Garbhgriha. Sabhamandapa- There are three entrances.

Constructed in a grid pattern. A stutue of Nandi is placed at the center of the Sabhamandapa.

Combination of dome and coffored roofing system used. Red Basalt stone with lime mortar used for construction. A Ganesh deity situated on north-west side of Sabhamandapa. Antaral is a space between Garbhgriha and Sabhamandapa. Dome used for roofing system used.

Beautiful carving of Rudraksha on the entrance of the Garbhagriha. Deity Shiva situated at the center of the Garbhagriha. It is 1,8m down from Sabhamandapa level. Constructed with combination of black and



The most striking feature of this temple is the five tiered shikara rising in diminishing height. The height of the shikara is enhanced by the high wall portion of the sanctum. Shikhara represent the

Latin-nagara of Temple agarchitecture. Shikhara is constructed in Red Basalt stone and covered with a mixture of lime red sand

A thick layer of lime and sand mixture applied on the Shikhara to protect the main shikhara structure from naturaland carved a beatiful mofifs on it.

The shikara is crowned by a couchant bull at each corner along with a monkey behind it. The shikara is beautifully decorated with geometric motifs and also images of Brahmanical deities including Siva

Analyabai Holkar of Indore, after the fall of the Mughal I	mpire.		1200		4	Sinhgad Coll Department of	8
	\_		4	i i		Sinhgad Institutes	þr
	Comprehensive	Conservation	Policy for	Sistorical	Settlement	of Verul	0



First Year M.Arch (Architectural Conservation) Drawn By
Ketali Badge, Megha Butte, Chaitrali Deshpande, Janhavi



SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD COLLEGE OF ARCHITECTURE, PUNE-41

# Semester II- STUDIO II

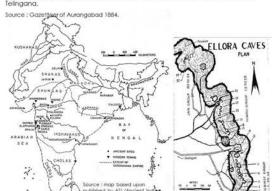
# Studio Project – Comprehensive conservation policy for historical settlement of Verul

#### RELIGIOUS SETTLEMENT AND COMMUNITIES

successive waves of Vedic Aryans poured into India through the passes of tho north west; and prior even to their invasions, several Turanian races surmounted the Himalayas or entered by the valley of the Brahmaputra. The traditions of the Nagas, point to the Existence of an ancient Kolarian empire in the

Dakhan, having its capital at Nagpur, and it is probable that its rulers exercised an imperial sway over India.

•The Kolarians strongly opposed the immigrations of the Vedic Aryans, but by alternate wars and alliances, the latter drove them from the open country into the hills And jungles. The Dravidians, also of Turanian affinities, entered by the lower Indus, and were gradually forced into the Dakhan and Southern India by the succeeding Aryans. •They had some skill in music, and the Puranas state that when Havana held universal sway, he gave the great forest of Dandukarania, extending from the Narbada to Cape Comorin. To the musicians, Ferishta also mentions, that music and the science Of usic were originally introduced into Hindostan, from the Dravidian kingdom of



HINDUISM AND BUDDHISM IN ELLORA

SHUNGA SATVAHANAS (1st and 2nd cent.)

Jain caves in Ellora.

 History of Marathwada and Aurangabad region gives the evidences from Maurya period.
•Rise of Buddhism was the main phase of this period.

Monolithic pillars, city planning, rock cut caves, stupas, sculptures of animal figures —were the elements which represented the architectural development of Buddhism.

•This was the first dynasty in the Deccan (Pushyamitra Shunga). They settled in the land between Godavari and Gautamiputra Satkarni was the prominent King who extended his empire upto Konkan, Saurashtra, Malwa, Berar. \*He defeated Sakas and began Shalivahna shake era.
 \*Paintings at Ajanta and Amaravati are from this period.
 \*The Satvahanas were followers of Hindu Religion but they also supported Buddhism by giving donations as that time it was for trades and charity.

•Some of their inscriptions give the result that the origin of Satvahanas was in the Bramhin cast.

-That's why we found Hindu caves older than Buddhist and

•After Satvahanas, Gupta was the dominant dynasty in India, but the evidences after Satvahana period we get it

from Rashtrakutas, the dynasty after Guptas and Chalukyas. •Buddhist and Jain caves of the Ellora are from Rashtrakuta

Rashtrakuta rule was tolerant to multiple popular religions, Jainism, Hinduism and Buddhism too.

•This region was under the control of Kalyani Chalukyas and Yadavas of Deogiri (Daulatabad) during this period. The patronage towards Jainism under the Yadavas is also known by the findings of several sculptures of Jain faith from Daulatabad.

 Next to Buddhist and Brahmanical caves at Ellora, cluster of five Jain caves we find right at the northern end of the hill range-numbered 30

•These caves, excavated in the 9th century CE, signify the last majo phase of religious and artistic activity at Ellora, celebrating the ascetic character of the Jain religion.

 These are monolithic structures, following the style if Hindu caves. They are having well finished interior and unfinished exterior but showing the icons and architectural characteristics.



cellings, doorways and façade. These are covered with icons of the Jinas and yaksa-yaksis, and some of these carry a number of paintings on ceilings as well as sidewalls. Of these, the upper storey of Indra Sabha is the largest and grandest, though the lower storey is left



EXTENT OF GUPSA 6













\*Decline of Yadavas around 12th cent. And Sufi movement happened in the nearby regions of Ellora (Khuldabad) was the main reason of rising the Mughal or Ismamic culture in Ellora.

\*But there are no dominant evidences of Islamic architecture

In the village there is only one Dargah and Jami Masjid, the Dargah is more than 400 years old







MARATHAS (HINDU) IN ELLORA

 After the Mughals, Marathas took over this region, especially Bhosales •The Marathas encouraged to build Hindu temples, sacred water bodies in Ellora.
•Their examples are Ghrishneshwar Temple and Amrut Teerth Kunda.







Except these places, there are another temples and Mathas n the village, where people gather for religious events. Various activities are conducted in these spaces which follow Hindu Traditions.







Teerth Kund during Mahashivratri Following Picture shows the weekly Bhajan singing (praying) activity of Hindu women in Eilora village.

They celebrate various festivals togather and sing the Bhaians





As observing from Satvahana period to today, Ellora the dynasties

But Now now it can be identified as a Hindu settlemen In village there are also the people following other religions like- Muslim, Jain, Buddhist and also there are tribes around the village.

The Ghrishneshwar Temple and Amrut Teerth Kund has given the identity of Hindu settlement to Ellora village





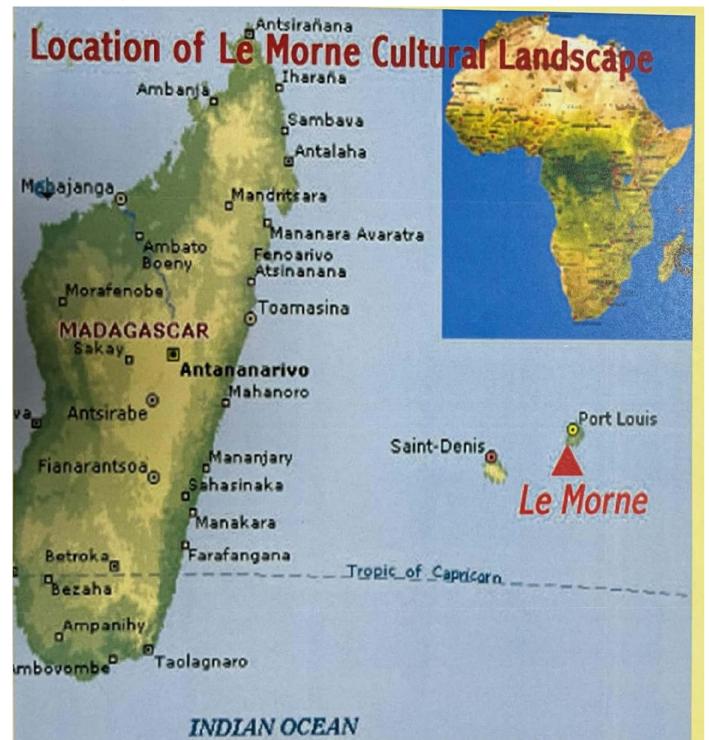
# **Semester II- STUDIO II**

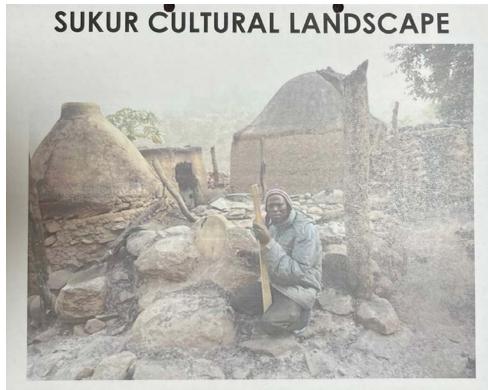
# Studio Project – Comprehensive conservation policy for historical settlement of Verul

Settlement (							
TYpology	Building Name	Planning & Features	Drawings	Photos	Construction Technique & Material	Analysis	Inferences
		Temple oriented North-South. Temple has 2.5m ht compound wall to all four sides. We Entre into the temple through the Nagarkhana. Temple constructed in Bhumija Temple Architecture. Temple consist of Sabhmandapa (pillared hall), Antaral and Garbhgriha. Sabhamandapa- There are three entrances. Constructed in a grid pattern. A stutue of Nandi is placed at the center of the Sabhamandapa. A Ganesh deity situated on north-west side of Sabhamandapa. Antaral- Antaral is a space between Garbhgriha and Sabhamandapa. Dome used for roofing system used. Beautiful carving of Rudraksha on the entrance of the Garbhagriha. Garbhagriha- Deity Shiva situated at the center of the Garbhagriha. It is 1.8m down from Sabhamandapa level.			Sabhamandapa- Combination of dome and coffored roofing system used. Red Basalt stone with lime mortar used for construction.  Antalar- Dome used for roofing system used.  The most striking feature of this temple is the five tiered shikara rising in diminishing height. The height of the shikara is enhanced by the high wall portion of the sanctum.  Shikhara is constructed in Red Basalt stone and covered with a mixture of lime red sand  A thick layer of lime and sand mixture applied on the Shikhara to protect the main shikhara structure from naturaland carved a beatiful mofifs on it.		
emple Complex	Lakshvinayak Temple	North-south orientation. Origionally temple consist only with Antaral and Garbhagriha. Temple is square in plan. The front portion of temple is an extension. Temple is enclosed with a compound wall. A domical style shikhara on top of the Garbhagriha. Lotus motifs on Shikhara.		© ○ finders	Temple constructed in red basalt stone with interlocking system.  Front extension constructed in Bricks and cement and covered with a GI sheet.	context of temple which	Extension observed, which creat structural issue with the original temple. Reduces aesthetic and architecture.
	Nageshwar Temple	East-west orientation.  3 small shrines and a Nageshwar temple situated on a private land enclosed with a compound wall. Temple complex involved a four deities are Shiva. Ganpati, Kuber and Maruti. Temple constructed in bricks. Square in plan. Main temple consist only a Garbhagriha.  A domical style shikhara on top of the Garbhagriha.	SHIVA SHIVA		Temple constructed in Bricks and lime mortar. Fencing around Temples. Well constructed in black basalt stone.	Temple is well maintained and coloured.	-value of temple. Temples in the settlement are t neglacted from tourist point of v
emple with	Gundeshwar Temple	A temple consist with Garbhagriha. Garbhagriha is square in plan. Domical style shikhara on top of the garbhagriha with lotus motifs. Brick ornamentation on temple facad. Stone compound wall around the temple. Compound wall have a small gateway with ornamentation.			Temple constructed in Bricks and lime mortar. Compound wall constructed in Black basalt stone with lime mortar.	Compound wall started collapsing. A brick motifs observed are similar to motives observed in residences.	
Compound wall	Shiva Temple (near Masiid)	Origionally temple consist only with the Garbhagriha. Front portion of temple is an extension with Columns and slabs.			Temple constructed in Bricks and lime mortar.  Compound wall constructed in Black basalt stone with lime mortar.		
			Analysis	s: Building Typologies	Sinhgad College of Architecture, P Department of Architectural Conservati		Sign
					cale:    Principal   Facult:   Dr. Banani Baneriee   Dr. Vaishali	First Year M.Arch (Architectatkar Metali Badge, Megha Butte, Chaitra Dhage, Jayanti Galagali, Ganesh Go Mulkarni Manish More Trutti Naik	li Deshpande, Janhavi dse, Shifa Khan, Ruturai Janhavi Dha



# Semester III- CULTURAL LANDSCAPE Studio Project – Cultural Landscape at Junnar



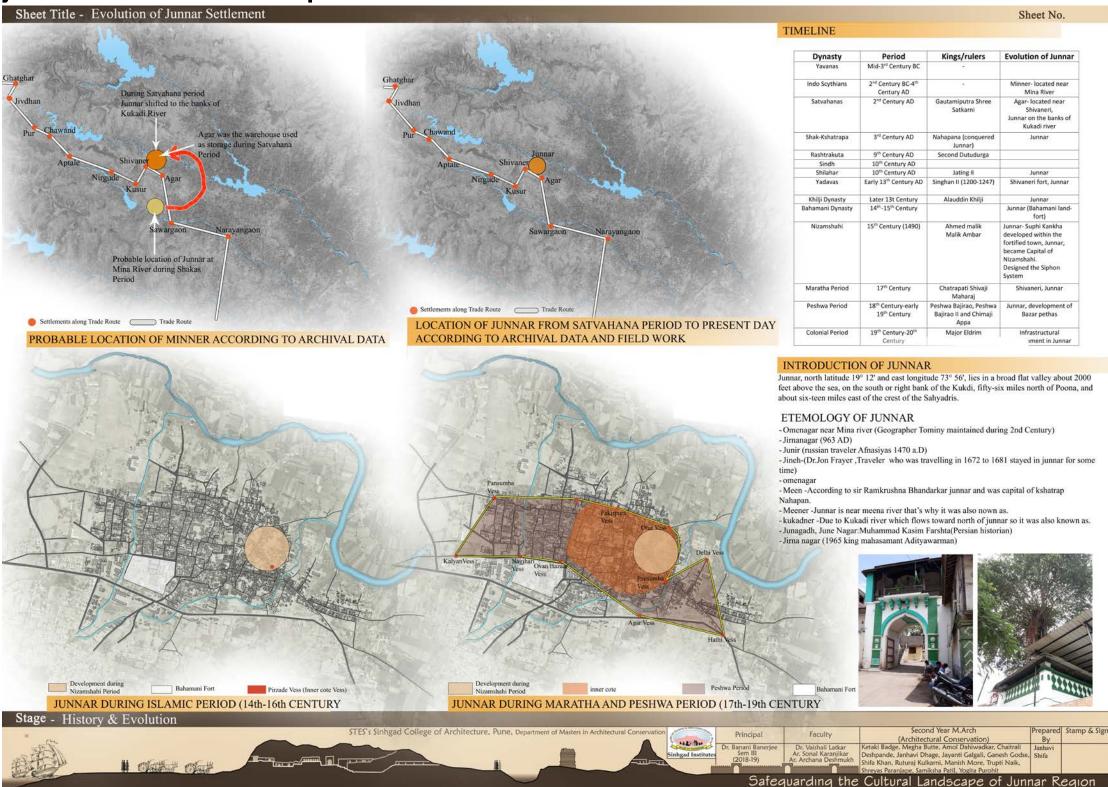


CHAITRAIL DESHPANDE CULTURAL LANDSCAPE S.Y. M.ARCH. 03 SCOA





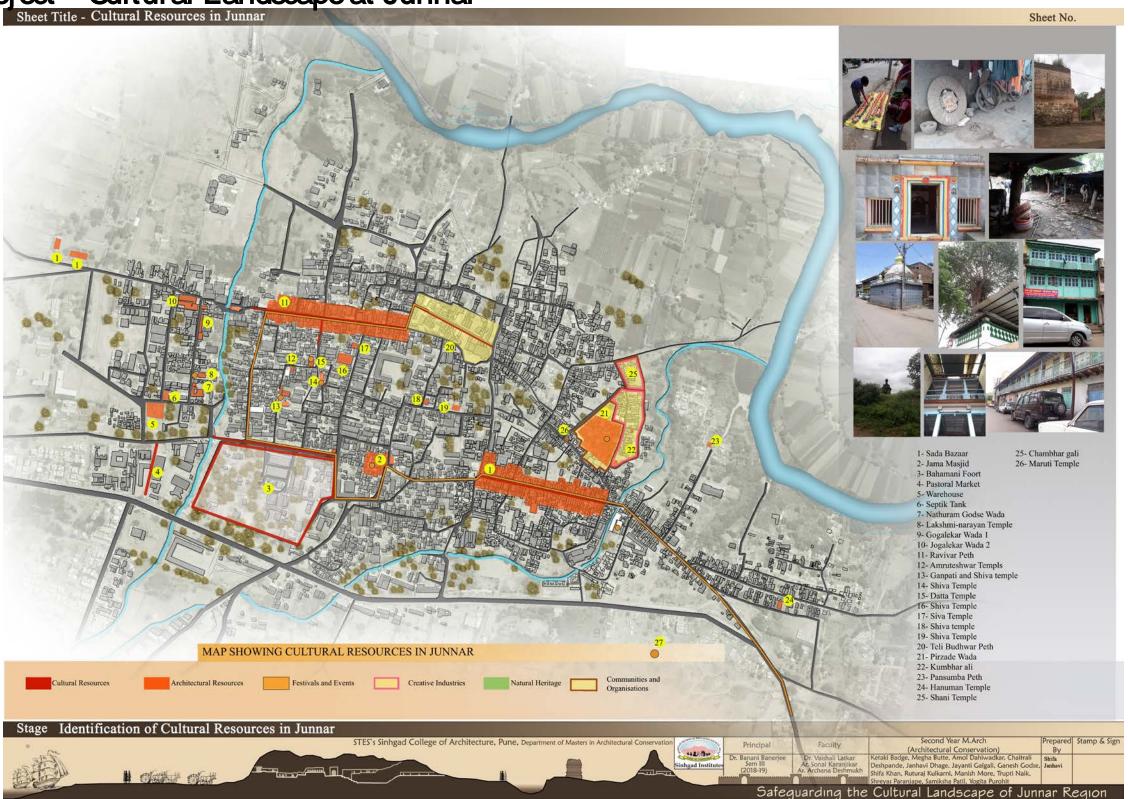
# Semester III- STUDIO III Studio Project - Cultural Landscape at Junnar



**Semester III- STUDIO III** 

Studio Project — Cultural Landscape at Junnar

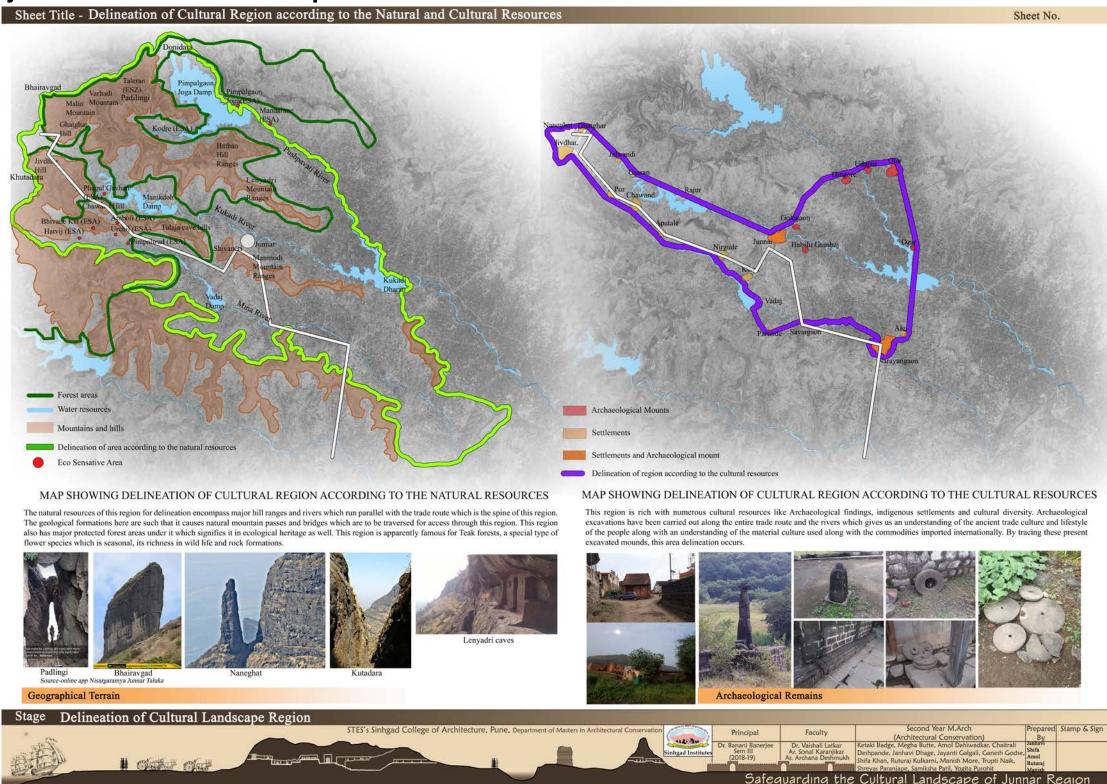
Sheet Title - Cultural Resources in Junnar





SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD COLLEGE OF ARCHITECTURE, PUNE-41

# Semester III- STUDIO III Studio Project – Cultural Landscape at Junnar





#### Semester IV- CONSERVATION PROJECT



SHEET NO. 03

#### AIM

Aim is to safeguard the tangible and intangible heritage of Miraj by studying the specific zones of the town and applying policies for the same so that the current condition of selected zone will improve and can be protected under specific governmental or non-governmental organizations.

#### **OBJECTIVE**

Objective of this project is to identify the cultural resources of historic area in historic town

To focus on the historic monuments which are neglected and to be protected

To protect the heritage of the Miraj town as an important settlement in the history of Maharashtra.

To safeguard the craft of sitar making as an intangible heritage of the town.

To apply the rules and regulations to the culture of the town by studying the streetscape and skyline of the

#### SCOPE AND LIMITS

Miraj is the settlement flourished in Bahamani period, when it was an army post and fortress. And also Saint Meerasahib dargah has given the identity of Sufi Shrine to Miraj. It was formed as an army post, then it became a princely state during British period.

While changing the character of the settlement, many things changed their outlook, function and also the identity too. Some things marked as a layer of history like the Craft of Sitar making, Sufism of Miraj and religious harmony formed through the Music in Miraj.

These are the scopes of the projects.

These aspects are limited for this settlement only and not for the region. Basically empires ruled over the all region but for this project I will focus on only the settlement. Because the craft of Sitar making flourished only in the settlement and not in the whole region

Selection of the settlement for its uniqueness in tangible and intangible aspects of Heritage. Music is the spine of this settlement which is vanishing and the settlement is becoming more industrialize.

Identity of Miraj is the mine of music and many legends have touched Miraj in their career and its their privilege to perform in Miraj. This association is the main aspect of conservation of the particular area in Miraj

The town was found in Shilahar period but flourished in Maratha and Colonial period. Patwardhan princely state worked more for Mirai. It was their capital. But many architectural evidences show the peak period of Adilshahi as it was the Jagir of Adilshah of Bijapur

The all aspects are focused in one particular are of Miraj that is Sitarmaker Galli at the main road of Miraj. It has Maratha and colonial style of architecture, Adilshahi period community, and the craft was flourished in the peak period of Patwardhans when they encouraged Hindustani Classical Music

ting and grading of heritage in Miraj and safeguarding the craft of Sitarmaking and recommend the appropriate guidelines for the streetscape of Sitarmakers galli, Miraj

#### **BEFORE FIELD VISIT FIELD VISIT AFTER FIELD VISIT History and Archival Study Data compilation** Mapping-Area of study Study of Research papers Inventories- Drafting and Chronological Study of the and Thesis Preparation of Heritage Map **Experts Interviews** Heritage listing and Grading **Analysis with SWOT Format** Photographs Documentation **Data Collection Finding Issues** Statement of Significance **Authenticity and Integrity Guidelines and Proposal**

METHODOLOGY

#### FTEMOLOGY

The presently used word 'Miraj' has a long history and historians differ as to exactly how the word came into existence.

In ancient historical literature the word 'Marichip Ashram' is often referred to. It was probably a part of the Dandakaranya Forest (mentioned in the Ramayana). Even today there exists a hill called Dandoba Hill on the outskirts of Miraj. This word has striking resemblance to the word 'Dandakaranya'.

'Mirije': This word first finds its mention in some stone and copper inscriptions of the Shilahara Period. A copper inscription ('Tamrapat') found in Miraj dates back to 1058 AD. It clearly mentions the word 'Mirinj Desh.' The same word is also mentioned in another historic inscription belonging to reign of the Shilahara King Gandharaditya Dev of Kolhapur. The language seems to be mix of Kannada and Sanskrit.

'Miriji': A corner stone belonging to the Shilahara Period, when King Mahamandaleshwara Vijayaditya ruled, mentions the word 'Mirije'. It was recovered from a Shiva temple near Miraj.

'Mubarakbad': Historic records show that during the Bahamani regime, Miraj was known as Mubarakbad. King Hassan Gangu Bahamani conquered Miraj by defeating Queen Durgavati and renamed the city.

During the rule of Mohammad Adilshah (1650 AD) the city was called 'Mirz.' In a book called 'Alinama,' Miraj is referred to Murtazabad.

During the British rule many local names of the cities and towns were changed or anglicized for ease of pronunciation of the rulers, as it was difficult for them to correctly pronounce the original Indian names. In very old documents of early 19th Century, the word 'Meritch' is mentioned. In the following years the word seems to have changed to Meerui and then Meerai. After 1900 however the presently used word 'Mirai' seems to have been accepted for usage.



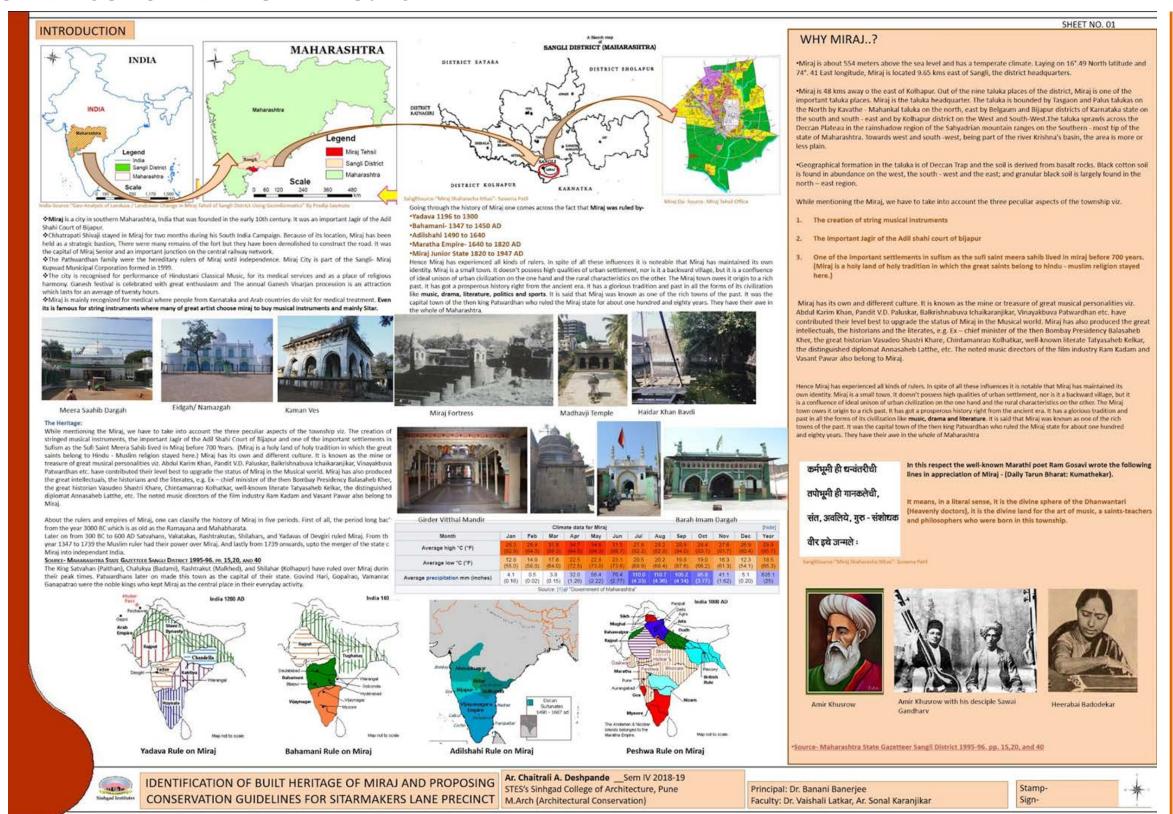
IDENTIFICATION OF BUILT HERITAGE OF MIRAJ AND PROPOSING CONSERVATION GUIDELINES FOR SITARMAKERS LANE PRECINCT M.Arch (Architectural Conservation)

Ar. Chaitrali A. Deshpande \_\_Sem IV 2018-19 STES's Sinhgad College of Architecture, Pune

Principal: Dr. Banani Banerjee Faculty: Dr. Vaishali Latkar, Ar. Sonal Karaniikar Stamp-

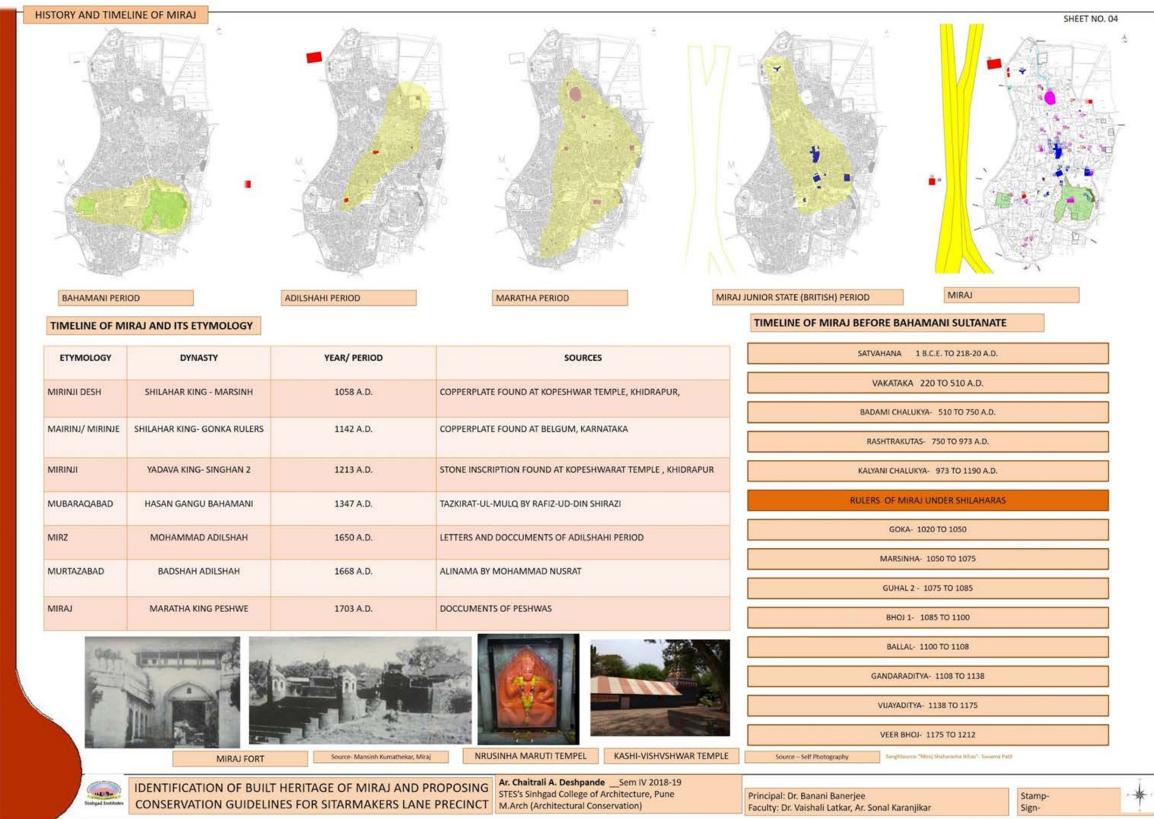
2018-19

### **Semester IV- CONSERVATION PROJECT**





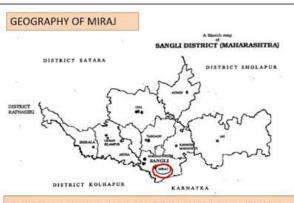
### **Semester IV- CONSERVATION PROJECT**





SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD COLLEGE OF ARCHITECTURE, PUNE-41

### **Semester IV- CONSERVATION PROJECT**



Miraj tahsil is the most urbanized tahsil of Sangli district. Sangli-Miraj-Kupwad Municipal Corporation is the biggest urban area of Sangli district, is located in Miraj tahsil. The proportion of urban population in the tahsil is increasing very fast, as a result the pressure on natural resources is increasing day by day. The agriculture in the western part of the part is converting into saline land whereas dry land of eastern part is being brought under cultivation through canal irrigation. The changing land use and land cover is compelling to set-up of tahsil is very much essential. The assessment of physical and socio-econor

Miraj Tahsil is situated in the river basins of Krishna River. It is bounded by Jath tahsil to the east, Kayathe-Mahnkal, Tasgaon to the Chapter-II - 34

north-east and north, Palus and Walwa tahsils to the north-west and west. Miraj tahsil is sharing its boundary with Kolhapur district (Shirol and Hatkanangle tahsil) and Belgaon



Miraj Tahsil Physiography Foot Hills High Land Plain Land River Plain Vicinity. River

Physiography plays an important role in the land use pattern. Barring Konkan entire Maharashtra is a plateau and Miraj tahsil as a whole is a part of the Deccan plateau. On the basis of altitude Miraj

Source: Based on contours of Survey of India toposheel

Krishna River Warana River 500-550 550-600 600-650650-700 700-815 820 Legend River Table Land Hill Foot Hills High Land Plain Land River Plain Vicinity Miraj Tahsil Physiography 5 0 5 10

This is the first category adjacent to river Krishna and Warana, within 500 to 550m altitude. This area is occupied about 153 sq km land on both sides of the Krishna River and north of the Warana River. The soil of this part is well fertile and irrigation systems developed on the river boosted the agricultural production in this area.

The area located adjacent to river plain vicinity is quite same as first category, but having some extra height. This part is of 550 to 600m Chapter II - 37

elevation and expanded in about 475 sq km area. This region is also good potentiality in agricultural production

The area of 600 to 650m height is named as high land and covers about 225 sq km land. The area of eastern part of Miraj tahsil comes under this category. This area is considered as starting edge of drought prone region of Sangli district. Starting from this area towards east and north-east direction of Sangli districts is known as drought prone area.

The north-eastern part of Mirai tahsil having 650 to 700m elevation is expressed as foot hills area This is about 50 sq.km area having various up-and-downs in the relief. The water scarcity is the main problem for the agriculture in this area.

About 22 sq km hilly portion of Miraj tahsil of 700 to 815m altitude is categorized into Hill category. This part is containing steep slope and possesses scanty natural vegetation. The only available and officially recorded natural vegetation patches of Miraj tahsil are located here.

The tableland expanded in 1.2 sq km area on 820m height is the last physiographic division of Miraj tahsil. Giriling temple (Giri means mountain and ling is name of lord Shiva) is situated in this area. This area is having spiritual and historical background. Also the agriculture is practiced in this

The climate of the study area is characterized by general dryness throughout the year except during the south-west monsoon season. From December to about the middle of February is a cold season and in hot season, May is the hottest month. The south monsoon season is

#### Distribution of Rainfall in Miraj

Sr. No. Year June July August September October Total Percentage 123.10 111.10 116.80 490.50 1981 167.00 79.00 46.00 228.00 12.00 532.00 156 00 158.00 57.00 93.00 113 00 577 00 76.50 142.60 221.20 484.36 563.40 45.50 124.00 198.10 23.30 172.50 178.80 81:30 105.30 56.80 136.40 558.60 71.70 125.50 57:40 68.40 216.10 539.10 109.5 61.50 566.50 115.1 2000 41.50 65.50 119.60 278.40 2001 70.00 57.60 45.90 187.70 110.20 471.40 95.8 124:10 23.90 167.50 30.20 130 20 475 90 96.7 179.20 51.00 48.50 566.40 115.12 93.40 194.30 61.80 735.10 173:30 162.50 200.90 136.60 149.4 70.00 110:00 110.00 105.00 96 00 491 00

98.60

98.80

70.10 354.30

112.00 619.00

#### Temperature recorded in Miraj

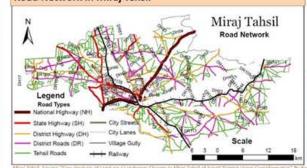
32.70

54.10

2008

Year ►	1971		1981		1991		2000	
Month ▼	Maximum in °C	Minimum in *C	Max	Min	Max	Min	Max	Min
January	32.1	9.8		8	33.4	15.6	32.2	15.4
February	34.7	12.5		*	34.4	14.9	31.4	15.7
March	38.9	11.1			37.5	18.4	36,7	18.7
April	39.7	19.3	38.7	20,9	37.5	22.0	39.2	22.5
May	39.7	19.6	38.8	22.7	37.2	22.6	34,8	22.9
June	31.5	20.2	31.5	22.6	31.3	22.6	30.7	22.8
July	31.9	19.6	(9)		27.5	21.8	30.2	22.3
August	31.5	19.6	27.4	21.2	27.5	21.3	28.8	21.5
September	34.6	19.6	30.0	21.5	31.2	21.0	31.1	21.2
October	32.5	18.2	32.3	19.9	33.6	19.8	31.7	20.7
November	32.0	17.6	31.4	15.3	30.9	17.8	32.0	17.7
December	31.3	10.2	30.6	14.7	31.8	13.9	31.2	14.

#### Road Network in Miraj Tehsil



Road Network The development of any country or region depends on the road network of that area. Similarly, the road network of Miraj tabsil has supported to the overall development. Miraj tahsil is having quite good road network if compared with other tahsils of Sangli district (Fig 2.9). Miraj tahsil comprises about 13 per cent of land under urban use herefore the total length of road is also quite more. The road condition within urban area is good, but in peripheral areas it is not up to the mark.

Total Length (in km)	Metal	Stony	Murum
29.1	29.1		
101.12	85.12		16
207.56	166.8	27.4	13.36
329.68	71.41	90.57	167.7
504.24	87.06	109,5	307.68
1171.7	439.49	227.47	504.74
	km) 29.1 101.12 207.56 329.68 504.24	29.1 29.1 101.12 85.12 207.56 166.8 329.68 71.41 504.24 87.06	29.1 29.1 101.12 85.12 207.56 166.8 27.4 329.68 71.41 90.57 504.24 87.06 109.5

#### Population of Miraj

Growth of Population growth is the most fundamental population growth and its decadal and annual variation 113.54 the period of 1971 to 2001.

SHEET NO. 02

	Period	Population	Actual Decadal Variation	Decadal Variation in %	Annual Variation in %
1	1971	207207			
Rural	1981	237332	30125	14.54	1.45
Rurai	1991	270888	33556	14.14	1.41
	2001	293546	22658	8.36	0.84
	1971	201597		- 10	
Urban	1981	268988	67391	33.43	3.34
Urban	1991	363751	94763	35.23	3.52
	2001	462502	98751	27.15	2.71
Total	1971	408804	71	- 21	
	1981	506320	97516	23.85	2.39
	1991	634639	128319	25.34	2.53

In 1971, the population of Miraj tahsil was 4,08,804 persons, by 1981 it was 5,06,320 with growth rate 23.85 per cent. In period of 10 years total 97,516 persons were added in which 30.125 persons from rural area and 67391 from urban. During 1991 population size of the tahsil was 6,34,639 persons, it ose to 7,56,048 in 2001 and the decadal growth rate was 25.34 per cent. The rural area is having average 1.2 per cent



Miraj tahsil is situated in south-western part of state on the border of Maharashtra and Karnataka. This tabsil has influencing on adjacent areas because it is having various factors like railway junction, hospitals and medical facilities, famous market yard, district administrative headquarter, etc. Miraj tahsil is having dynamic nature by its physical and human resources. It possess diversity like dry as well as well irrigated agricultural land, it is having major rivers as well as drought prone area, there is mixture of soil pattern, etc. Also Miraj is the most urbanized tahsil in Sangli district. Considering its growth and expansion it is essential to make proper planning for utilization of physical and human

#### Population Distribution

The relative relief of the study area is 300m and except north-eastern uplifted parts rest tabsil is having average height within 500 to 650 metre. River Krishna and Warana the tahsil. The soil of this area varies from deep black (near river vicinity) to shallow rocky (towards eastern part) and its tone is varying from dark black to light brown. The increasing proportion of salt affected soil is major problem in the western part of tahsil. Only one per cent land is under forest and is decreasing day by day, which is another serious problem



2018-19

IDENTIFICATION OF BUILT HERITAGE OF MIRAJ AND PROPOSING CONSERVATION GUIDELINES FOR SITARMAKERS LANE PRECINCT M.Arch (Architectural Conservation)

Ar. Chaitrali A. Deshpande Sem IV 2018-19 STES's Sinhgad College of Architecture, Pune

Principal: Dr. Banani Banerjee Faculty: Dr. Vaishali Latkar, Ar. Sonal Karanjikar Stamp Sign-





SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD COLLEGE OF ARCHITECTURE, PUNE-41