

MKSSS Dr.Bhanuben Nanavati College of Architecture for Women

SETTLEMENT STUDY FIRST YEAR 2023-24

B/D DIVISION

LOCATION: Pench, Maharashtra – Madhya Pradesh Border

AIM OF THE SETTLEMENT STUDY

Objective - To gain an understanding of human settlement of Khamba, and Amazhiri villages

The aim of the visit to these settlements is to study architectural aspects of tribal houses with reference to climate responsive design.

Location - Near Pench National Park along the border of Maharashtra and Madhya Pradesh

Expected learning outcomes

CO 1 – Illustrate and Document tribal house form through measured drawings and models (Based on writings of Amos Rappoport)

CO 2 – Present strategies used to achieve thermal comfort by observing, clothing, Architectural form, openings and materials

CO 3 – Describe the setting and siting of the settlement through plan, sections and Model (Regional Scale).

CO 4 – Document cultural associations between people and places through semi structured interviews.

Student Tasks

Pre visit work

- Preparing plan of the settlement from Google image and drawing section through the landscape
- Preparing a list of local flora using herbarium formats
- Collecting information on Material Culture
- Collecting Climate related information – Sun Path Diagram, EPW file
- Measure draw a small structure as practice

On Site work

- Drawing profile sections through the streets in groups of three (2 for measuring, 1 for drawing on the grid pad)
- Measured drawing of selected houses (groups of 10)

- Semi-Structured interviews in groups of three (2 for interacting, 1 for recording and noting observations) – Questions about trees, festivals, food, rituals
- Measurement of RH, Surface temperature, Ambient temperature
- Collecting tree, shrub, climber samples, preliminary identification using google lens

Teacher Tasks (Common and Group based instruction)

Common Instructions

- Introduction to measuring buildings
- Technique for drawing section of existing building
- Introduction to idea of thermal comfort
- Contour and contour sections

Group based Tasks

- Group 1 - Contours and contour sections, Preparing Herbarium
- Group 2 - Thermal comfort (Hygrometer, Ambient temperature, Surface Temperature, Strategies – Roof, wall, window)
- Group 3 – Conducting interviews, preparing questionnaires, Collecting and presenting information on Material Culture
- Group 4 – Readings about tribal architecture

Tour Schedule

Total plan- 6 nights/7 days

Day 1: Travel to Pench, Site visit by Teachers to confirm study locations

Day 2, 3, 4: Working on site - 4 Locations to be identified

Day 5: Visit to Ramtek.

Day 6: Heritage walk in Nagpur

Day 7: Return to Pune

