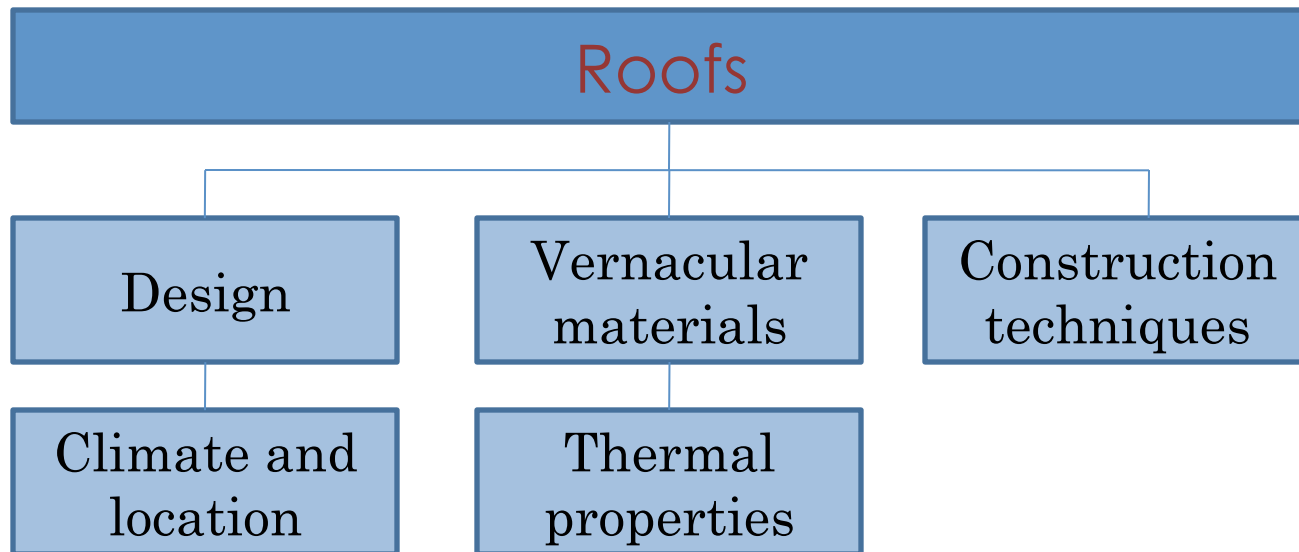


Reflective surfaces Learning's from past

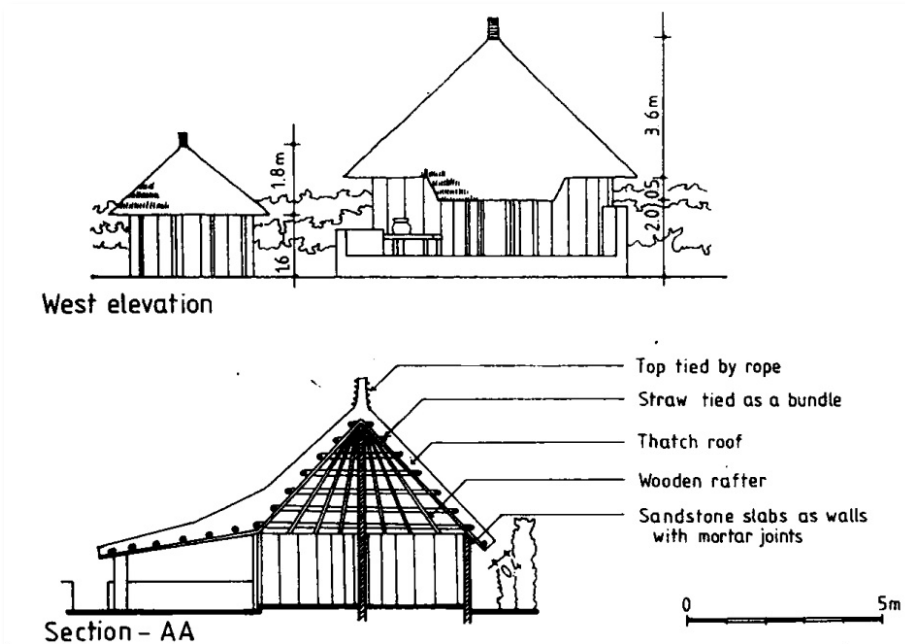
Jalpa Gandhi, Rathish S.A., Vishal Garg
IIIT - Hyderabad

Design principle

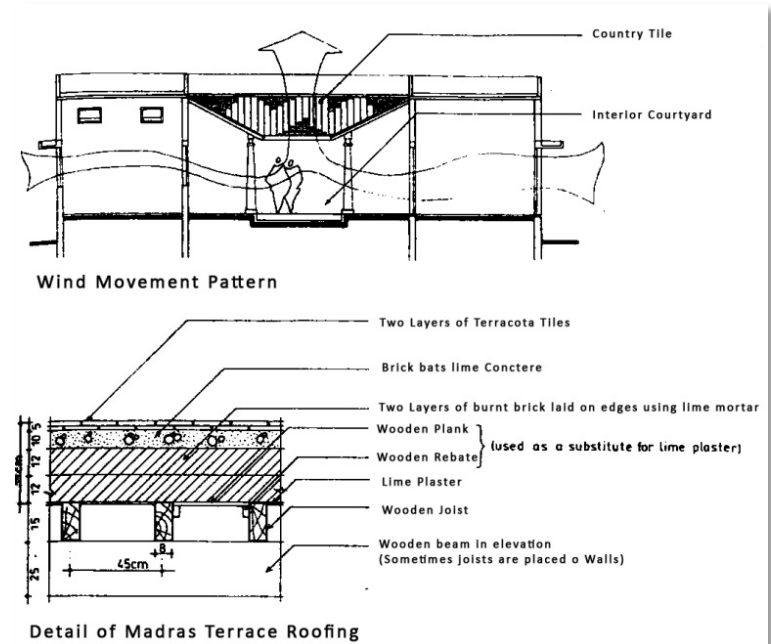
- To achieve thermal comfort through roof
- Durability of the roofing structure



Design examples

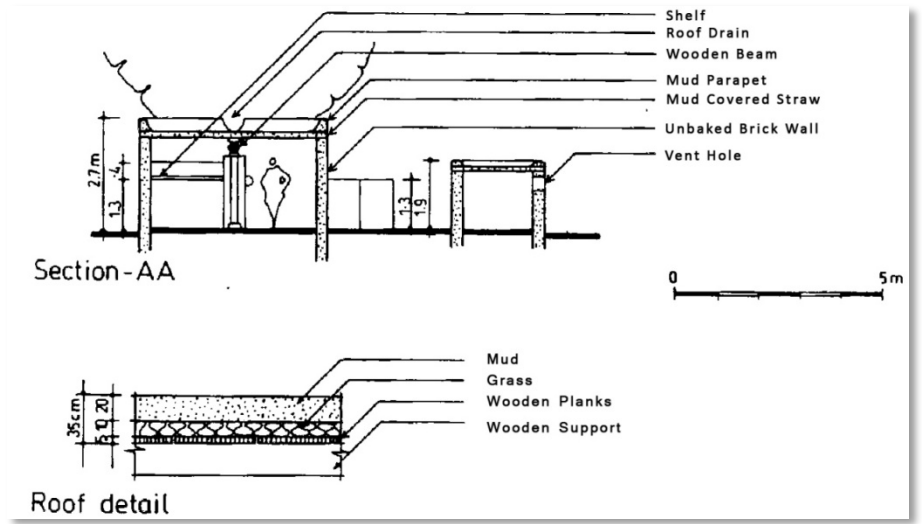
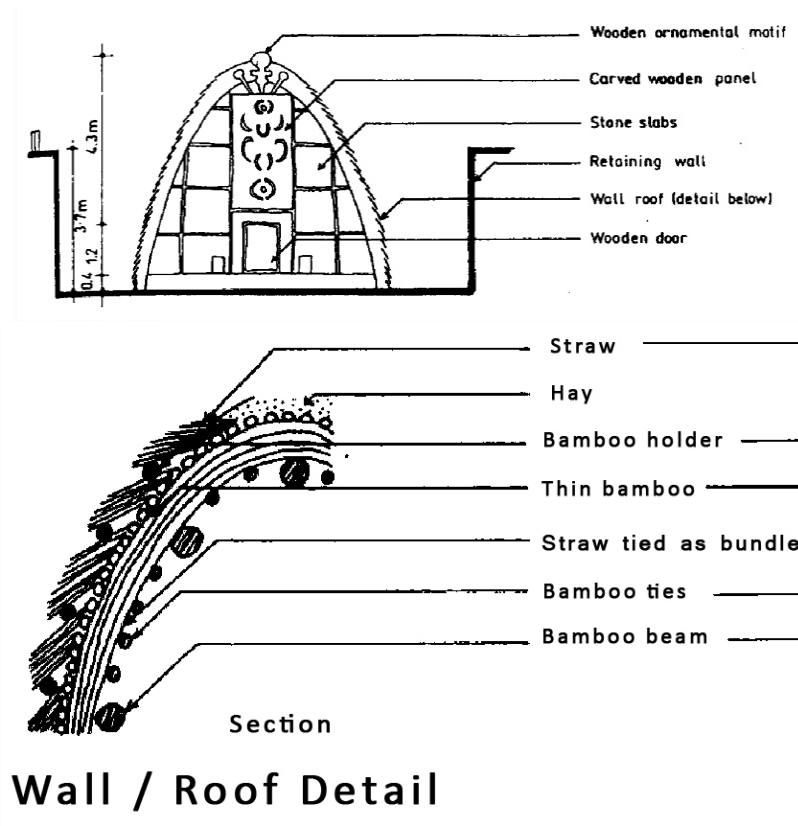


Hot-Dry Climate



Warm-Humid Climate

Design examples



Cold Climate

Composite Climate

Material examples – thatch/mud



Kutch Bhungas, Gujarat



Terracotta pots on tin sheets

Material examples – lime



Lime washed out on terrace –
Shekhawati, Rajasthan

Material examples –China Mosaic



Mosaic roof



Reflective surfaces



Ghat at Pushkar, Rajasthan



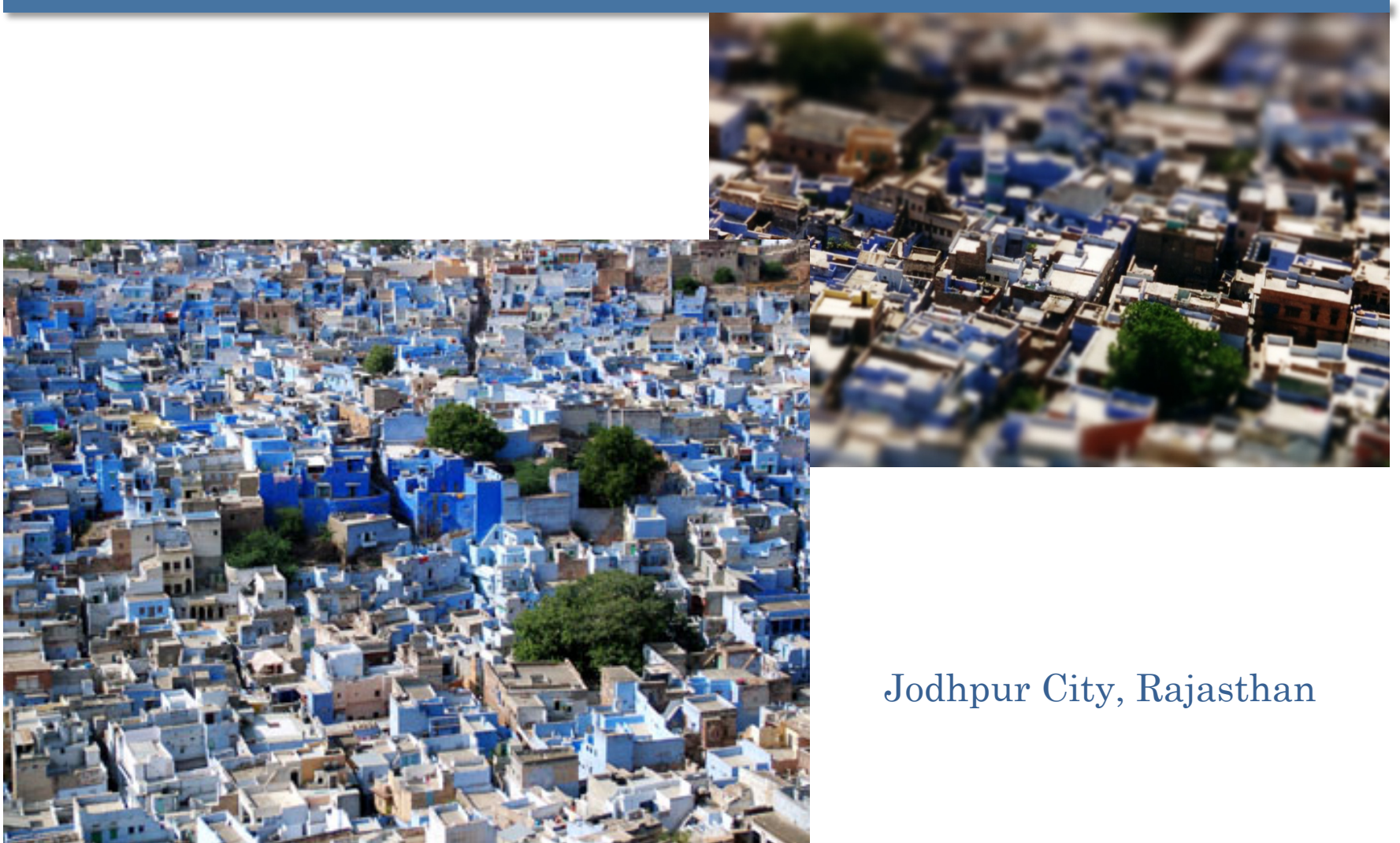
Temple Complex, Palitana, Gujarat

A Basic Approach – cool pathways



Reflective paint on Pathways, Palitana Temple Complex, Gujarat

Cool communities



Jodhpur City, Rajasthan

A Way Ahead....

Traditional Approach

- Thatch roof
- Lime
- China Mosaic

- Residential
- Palaces
- Community centers

- Cool pathways

- Cool cities

Current Practices

- Cool colored tiles
- Cool coatings and paints
- Green roof

- Residential
- Commercial

- Cool Pavements

- Vision to develop 100 cool cities
-



Thank You