

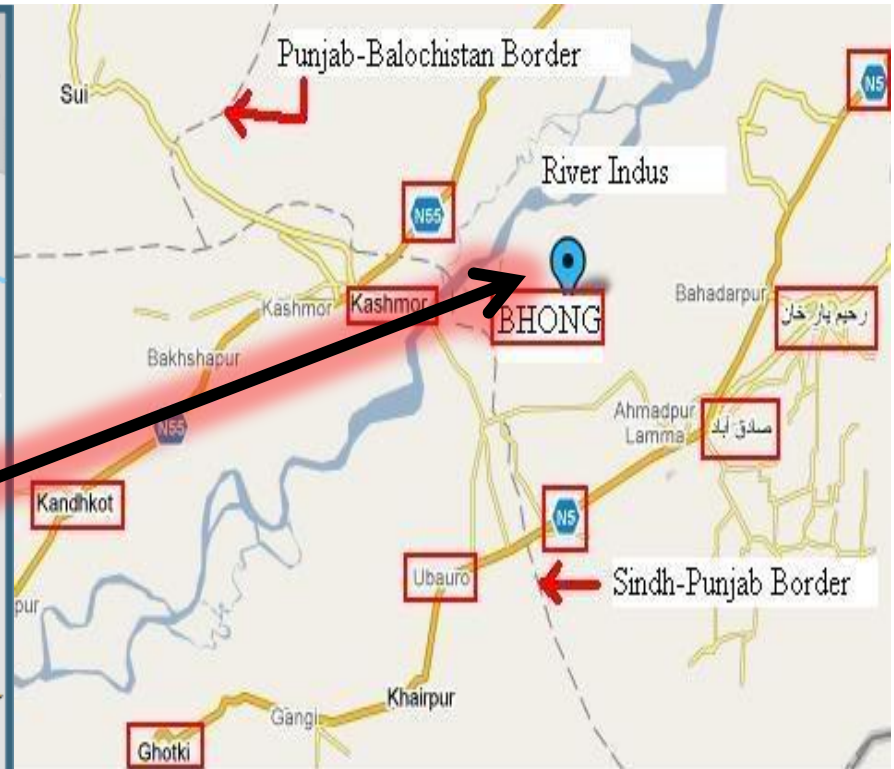
# Sustainable Mosque: Bhong Mosque, Rahim Yar Khan, Pakistan

Saher Hasnain  
ENVS 664-660



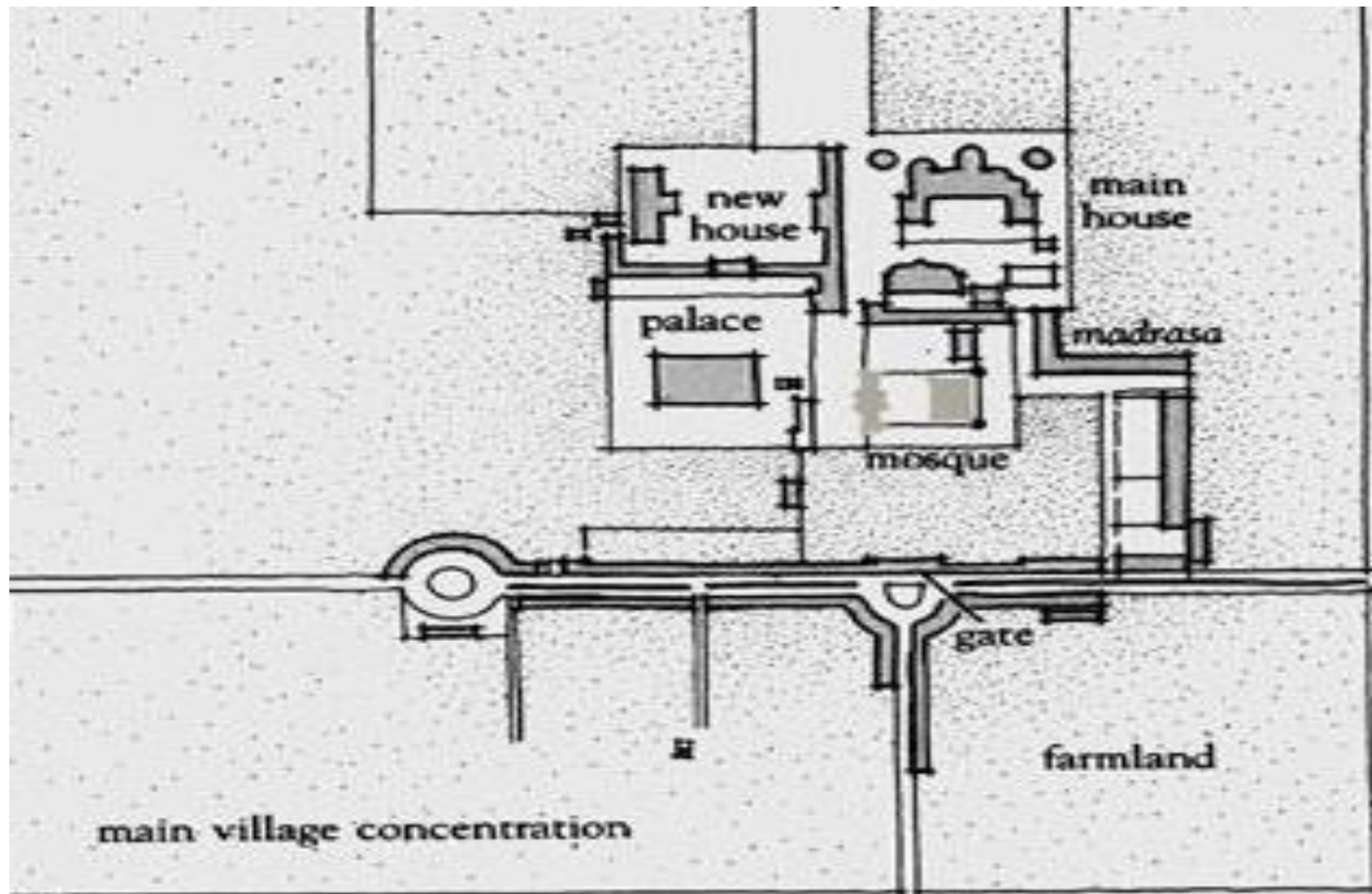


# Location



Mughal, 2009

# Site



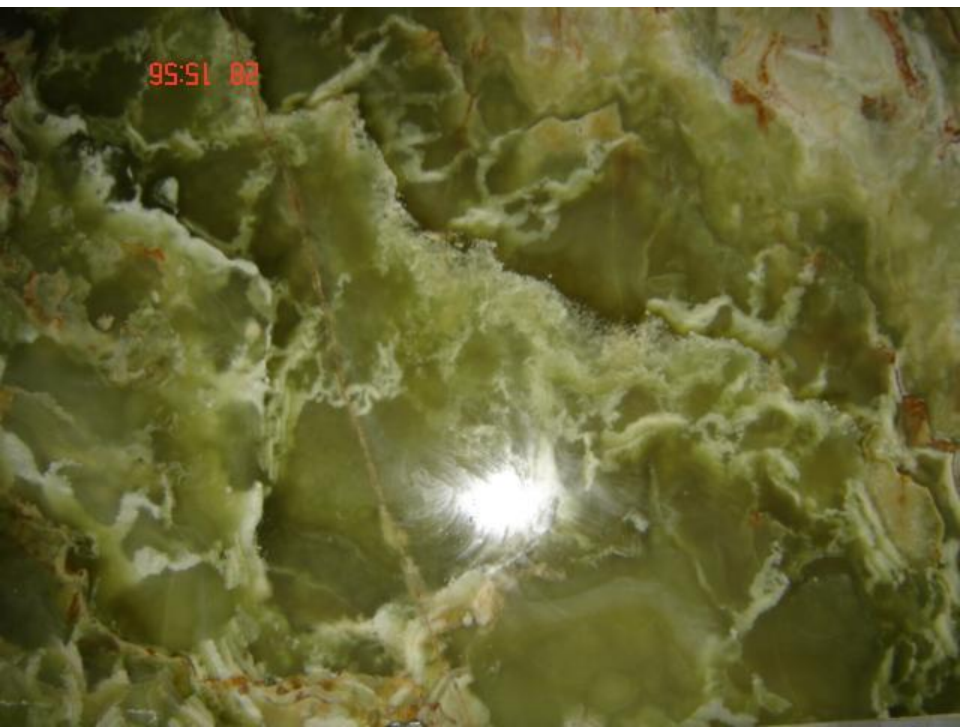
Veranda, 1986

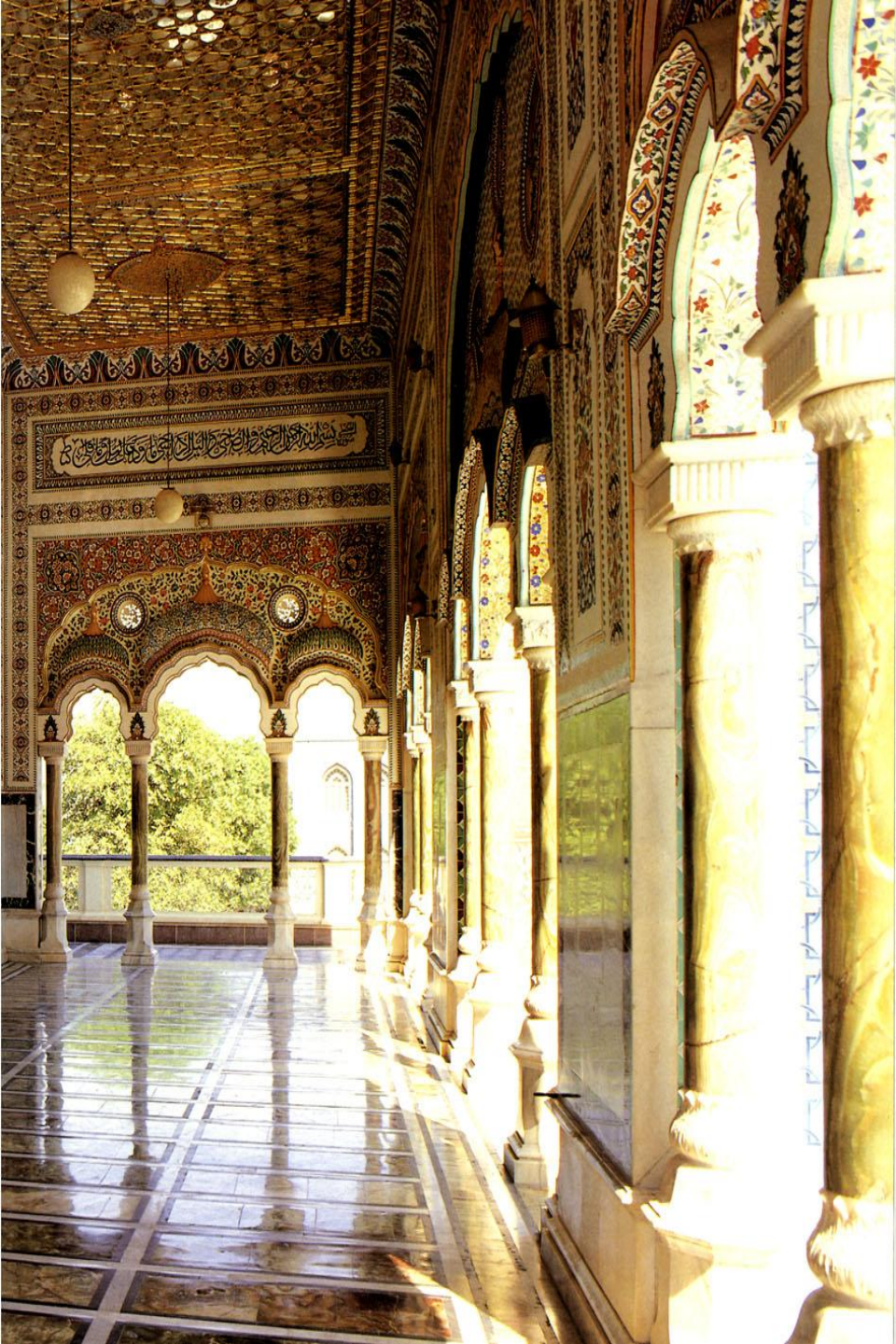
# Village Development

- Revival of Traditional Arts
  - Development of infrastructure
  - Education
  - Support for the hungry and homeless
  - Tourist spot (currently)
- 
- Construction time: 1932-1982
  - 10 million ruppees ~US \$ 116,306

# Materials

- Mostly locally acquired, **except**
  - **Burmese teak**
  - **European black marble**
- Multan: paint, wood, tiles, mosaic
- Quetta and Peshawar: marble and onyx
- Karachi: mirrors and glass





# Energy Use

- Minimal:
  - Less than 10 ceiling fans
  - Very few light bulbs (mainly for the chandeliers)
  - Water pump: electric now
- Dependence on day lighting and ventilation







# Why Sustainable?

- Community Development
- Local materials
- Local manpower
- Climate responsive
- Very good ventilation and air quality
- Regional linkages
- VERY innovative design

# More Sustainable?

- Actual domes
- Insulation?
- **ONLY** local materials
- Disaster foresightedness

# Flooding



# Flooding...

- “By then the town of Bhong was under water, people had taken refuge on trees, mounds and roofs of houses. Land links, power supply and telephones were suspended; even the famous Bhong Mosque was inundated.”

**Chief Minister Shahbaz Sharif, from, ‘In Southern Punjab with no Protocol’ (Chaudhry.J)**

# Green Mosque

- No building rating system in place
- Currently no community in place
- Architectural and design marvel
- Developed and sustained the community

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