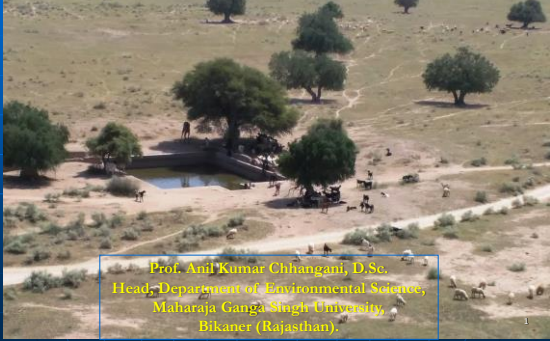
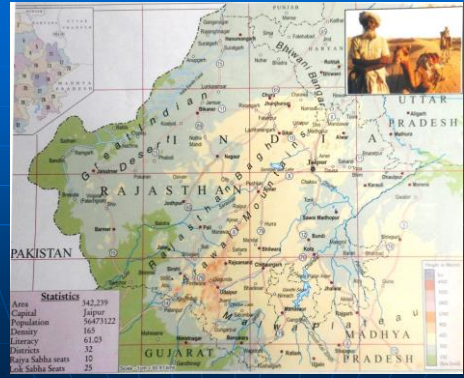


Traditional Water Harvesting Structures in the Thar Desert of Rajasthan



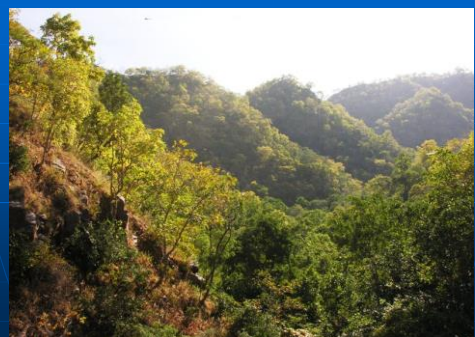
Topography of Thar Desert



Various Geographical Conditions



Aravalli Hills



Vindhya Hills



5

Chambal area



6

Thar Desert

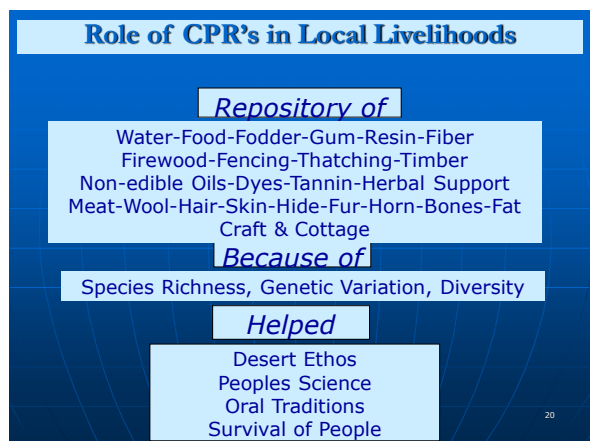
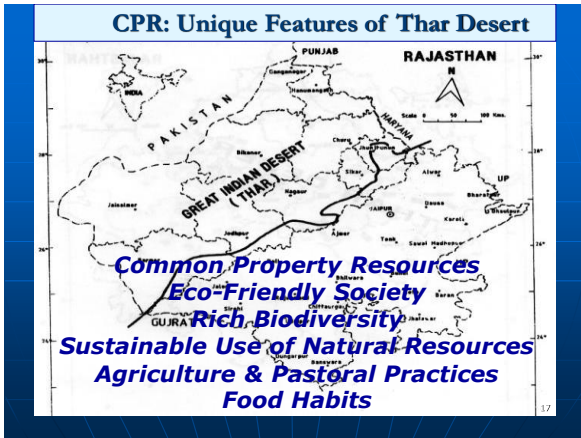


7

Agricultural land



8



Village Institutions in Thar (Specialized Ecosystems)

1. Water Bodies : Biomass Accelerators
2. "Agors" : Water Catchments
3. Gauchar : Annual Nutrition Banks
4. Oran : Sacred Silvipasture
5. Agriculture : Biomass Generators
(including fallow)
6. Sand dunes : Moisture Retainers
7. Gravel Lands : Poor Biomass Zone
8. Wastelands : Low Productivity Zone
9. Forest Enclosures : Native-Exotic Plants

21

Water

- To improve quality and quantity water upkeep and maintenance of traditional water bodies by using traditional knowledge of local people and appropriate technologies.

22

Importance of water



Collection of water



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**Rain Water Harvesting Structures:
Water Body and Catchment**



Catchments of Water Body



Catchment



Catchment



Johad



Nadi



Nadi



Nadi



Nadi



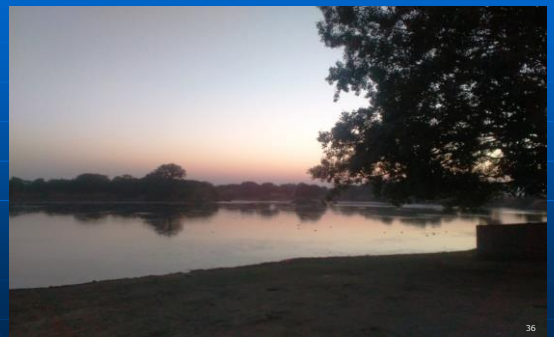
Nada / Poher



Anicut



Talab



Talab



Khechan Talab, Phalodi



Tanka



Tanka



Tanka



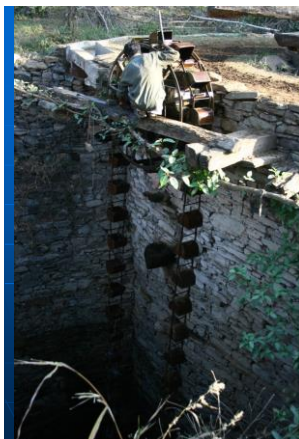
Tankla



Kua



Open Well



Mechanism



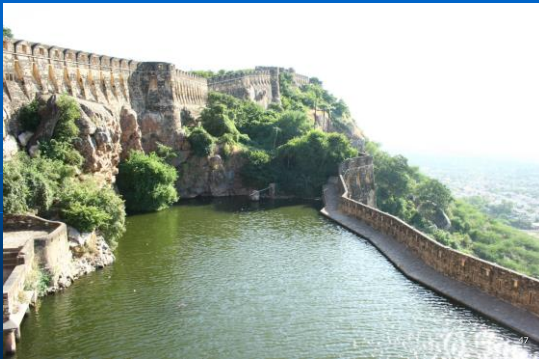
45

Bavdi



46

Bavdi



47

Jhalara (Step well)



48

Jhalara



Jhalara



Kolayat Sarover (lake), Bikaner



Fatah SagarJheel (Lake), Udaipur



Gajaner Lake, Bianer



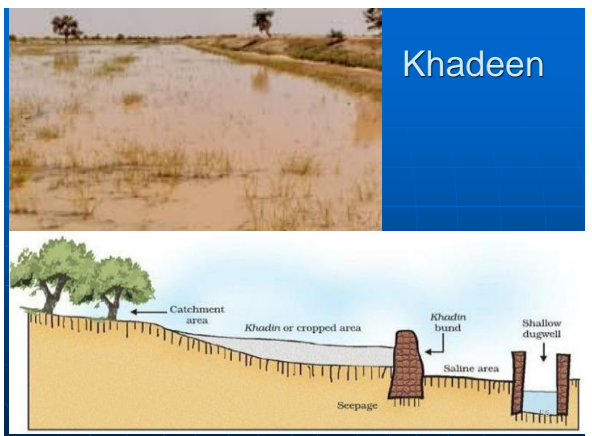
Pichhola Jheel (Lake) and Dudh Talai (Talab) Udaipur

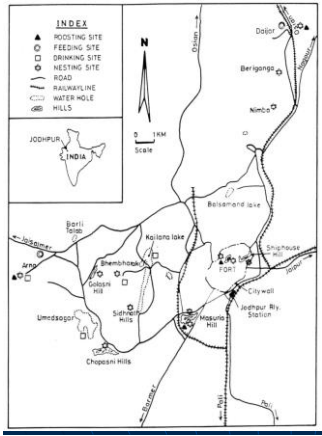
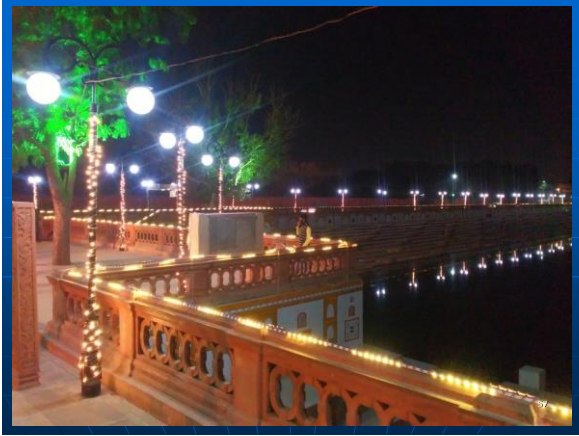


Dam

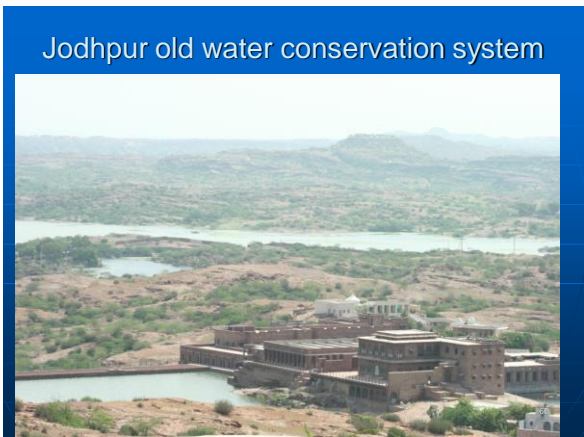
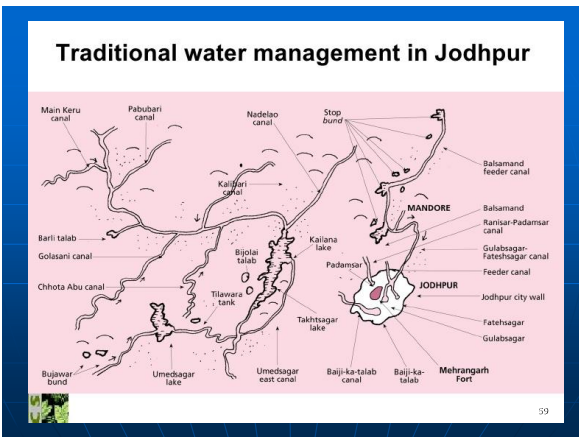


Khadeen





Jodhpur:
A Unique
Traditional
Rain Water
System



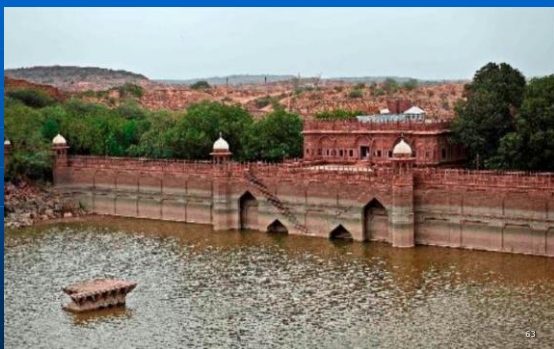
Gulab sagar, Jodhpur



Fatah Sagar Jodhpur



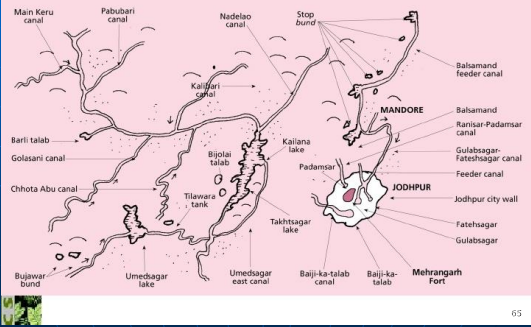
Balsamand Lake



Renovation



Traditional water management in Jodhpur



Canal System,
Jodhpur

66



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Water Management through Stop Bandh



73

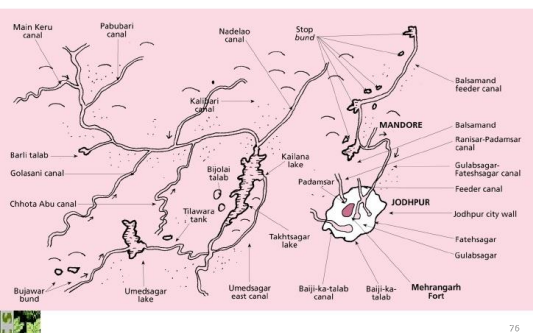
Stop Bandh : Heart Valve System



74



Traditional water management in Jodhpur



76

Canal System



77

Canal System



78



79

Dronacharya !



80



81



82



83

All Is Not Well !!

Threats to this
unique traditional
rain water harvesting
and management system
of Jodhpur

84

Baiji Talab, Jodhpur 2009



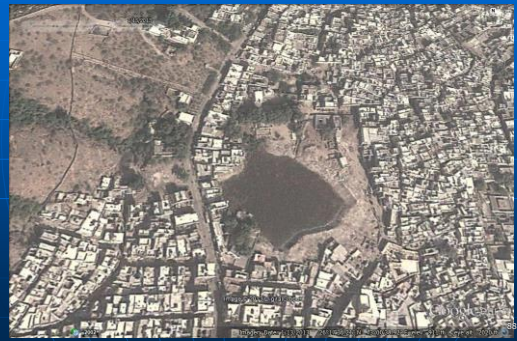
Baiji Talab, Jodhpur 2015



Ganglao Talab, Jodhpur 2002



Ganglao Talab, Jodhpur 2013



Mansagar, Jodhpur 2003

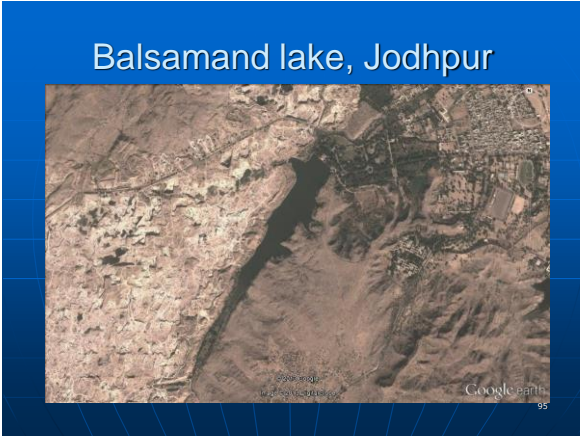


Mansagar, Jodhpur 2012



Akheraj ji Ka Talab, Jodhpur
2018





Projects and Planning



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Activities with community

- Deepening and de-silting of 'Nadi' and "Talabs".
- Renovation and repairs of traditional water harvesting structures.
- Improvement of catchments by eradicating juliflora to revive the native plant species
- Maintenance of water gradient and cleaning and desilting of water canals/channels

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Restoration of water bodies



Repairing of canals and parapet walls of water bodies with the community



100

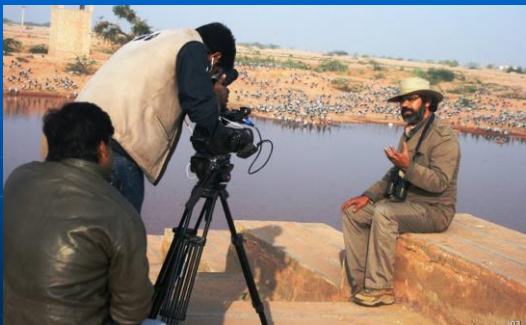
Impact



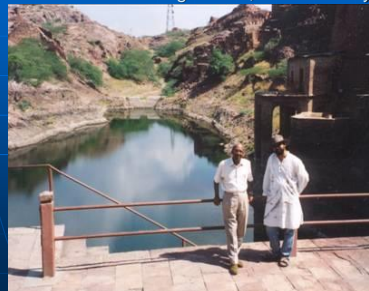
Advocacy: Visit of Planning commission members in the villages and lunching of Maru Gauchar Yojna



Documentary with News Channels



ABC Radio, Australia: <https://www.abc.net.au>
Professor S. M. Mohnot and Scientist Dr Anil Kumar Chhangani, both of The School of Desert Sciences, Jodhpur, India, next to Ranisar Talab, one of Jodhpur's oldest rainwater harvesting bodies, at over 500 years old.



Education and awareness

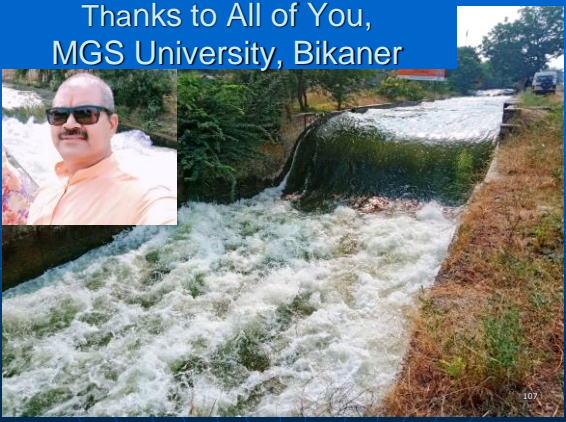


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Education, awareness programs



Thanks to All of You,
MGS University, Bikaner



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