



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
*(Deemed to be University under Section 3 of the UGC Act, 1956)*

# Lessons on Integration

**Rinan Shah**

Online Impact Workshop cum Master Class on Capacity Building  
Initiative for Citywide Water and Sanitation Management,

June 29<sup>th</sup> 2020,

School of Water and Waste (SWW), AAETI, Nimli (Rajasthan),

Centre for Science and Environment, India

# Workshop Attended







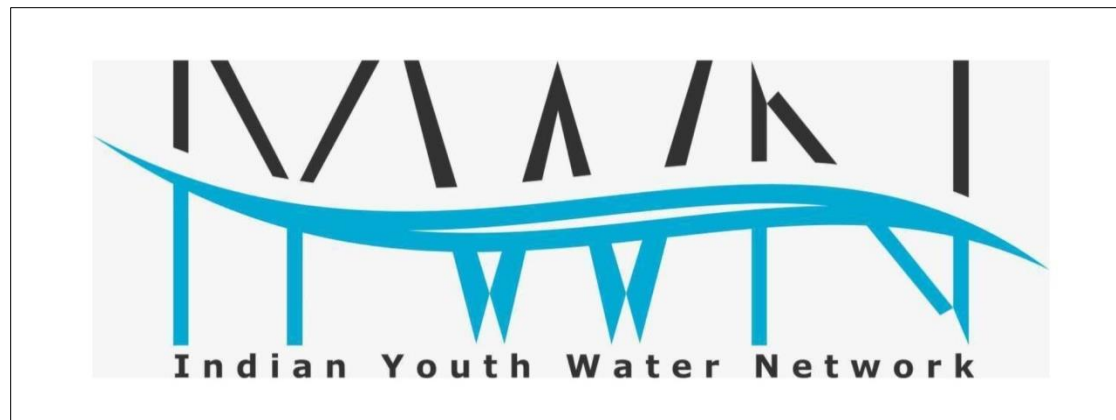
(a) Municipality supply tank within town, (b) public tap, (c) spring with a reserve storage tank and tap, (d) distribution network set up by samaj, (e) rooftop rainwater harvesting, (f) pick-up trucks, (g) hand-drawn water carts (Gorkhey jeep), (h) cantonment area, (i) water tanker truck, (j) jhoras, (k) self-drawn pipelines.

# Integration of Two Kinds

- Surface & Ground Water Management
  - Enabled the understanding of water systems better
  - Springs as ground water
- GIS in Household Sampling
  - Creation of ward-level maps
  - Sampling by space for a mountain city
  - Usage in spatial analysis

# Sharing of Knowledge

- Workshops
  - Youth, Environment and Sustainability for 14-18 year old children, Mahindra United World College (UWC) India (MUWCI), Paud, Maharashtra
  - Integrated Water Resources Management (IWRM) Training Programme by ATREE



# Way Forward

- To implement
  - Advance the integrated learning approach within and through IYWN
  - Designing workshops and learning experiences not only on water but sustainability studies
- To gain
  - Understandings of water quality and health
  - Water history and ethnographical work
  - Legal framework of water



School of Water & Waste, AAETI for the scholarship to attend the workshop and now for including me here

Email – [rinan.shah@atree.org](mailto:rinan.shah@atree.org) / [rinankshah@gmail.com](mailto:rinankshah@gmail.com)

Indian Youth Water Network -

Webpage - <https://sites.google.com/view/indianyouthwaternetwork/home>

Email - [indianyouthwaternetwork@gmail.com](mailto:indianyouthwaternetwork@gmail.com)

Twitter - @IYWN\_