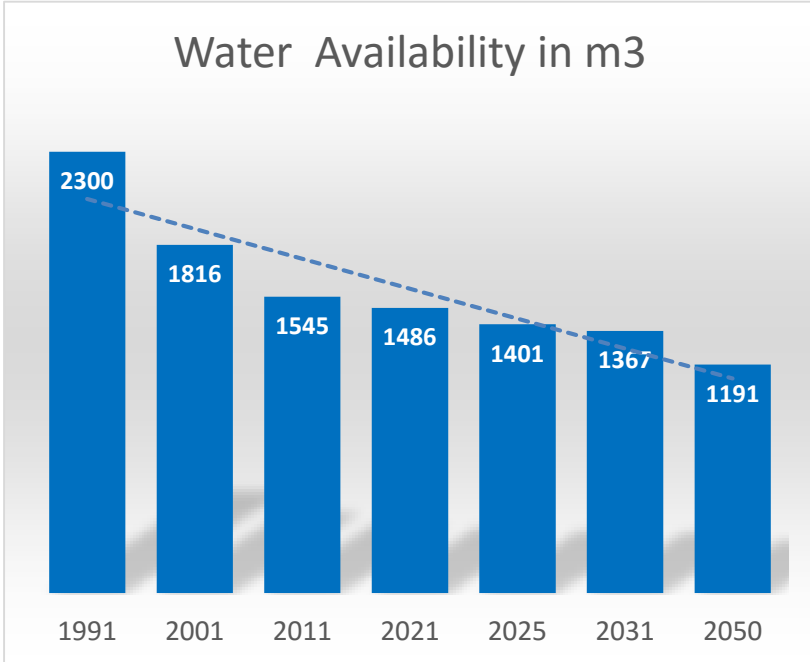




Treated Sewage use and Zero Liquid Discharge

Corporate Environment and Climate Change
26th August 2021

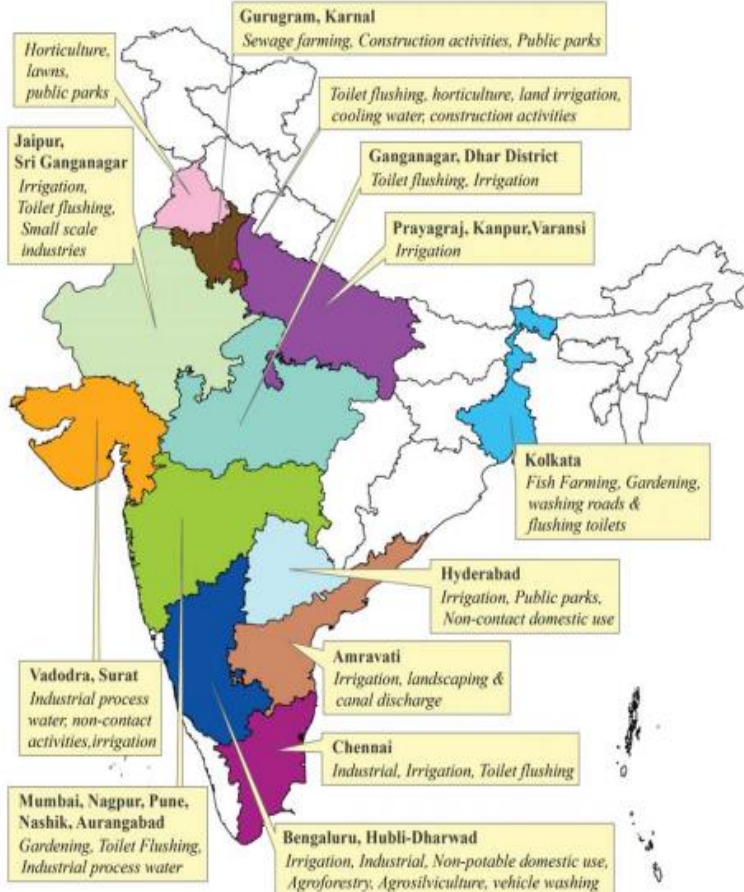


Total renewable water resources[^], top 15 countries

Country	Billion cu m/year	Per capita (cu m/yr)
Brazil	8,647	40,680
Russia	4,525	31,345
US	3,069	9,350
Canada	2,902	77,203
China	2,840	2,012
Colombia	2,360	46,882
Indonesia	2,019	7,471
India	1,911	1,398
Peru	1,880	57,821
Venezuela	1,325	46,465
D R Congo	1,283	14,783
Bangladesh	1,227	7,526
Myanmar	1,168	21,608
Chile	923	48,705
Vietnam	884	9,165



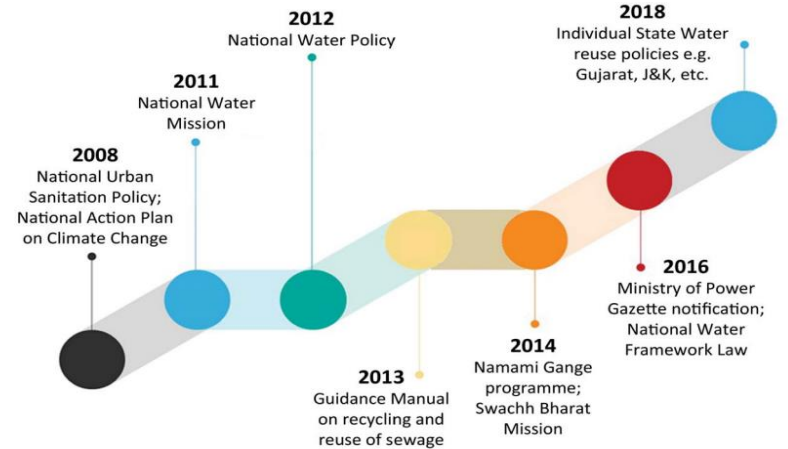
Wastewater Use and Management in India



Ministry of Environment Forest and Climate Change (MoEF&CC),

Ministry of Housing and Urban Affairs (MoHUA),

Ministry of Jal Shakti.

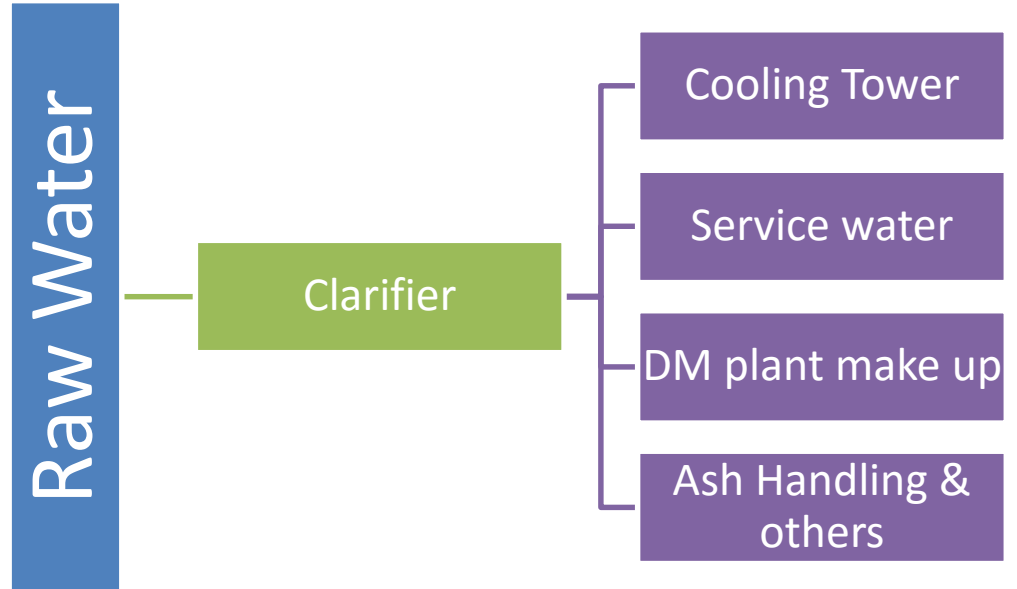


- The infrastructure costs for storing and transporting reclaimed water
- Biosolids utilization/disposal remains challenging
- Chemical constituents and concern of mixture toxicity
- Public acceptance.

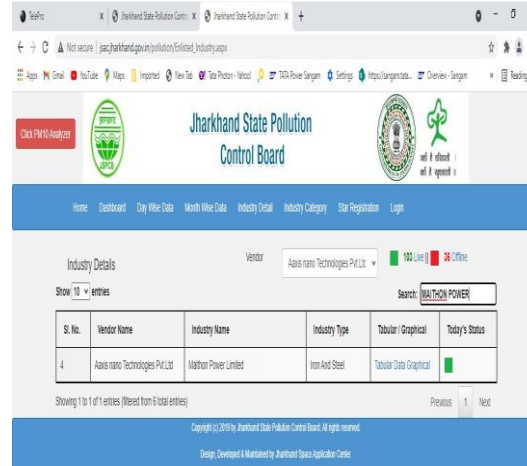
Treated Water at Tata Power

The sewage from plant and township is treated in Sewage Treatment Plant (STP). The treated sewage conforming to prescribed standards is entirely utilized for plantation/horticulture to the extent possible.

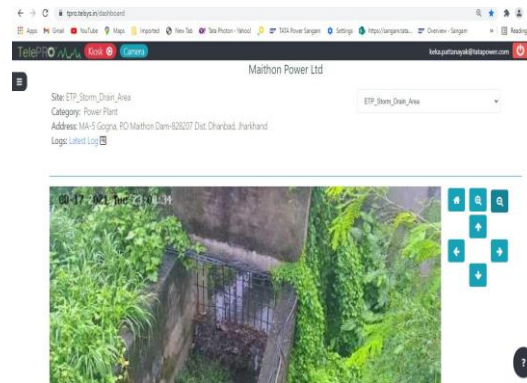
TTPS	MPL	CGPL	Jojobera
250	50	1350	50
All units in KLD			



Reverse Osmosis plant with effluent treatment facility has been installed leading to ZLD and reduction of fresh-water consumption.

Copyright © 2019 Jharkhand State Pollution Control Board. All rights reserved.
 Design, Developed & Maintained by Jharkhand State Application Centre.



Site: ETP_Storm_Drain_Area
 Category: Power Plant
 Address: MA-3 Gogria, PO:Maithon Dam-826207 Dist:Chhotaudega, Jharkhand
 Login: Contact Us

00:47:04.1 Tue Oct 19 2021

Online effluent monitoring system installed for measurement of pH, Temperature and TSS & ZLD Night vision Camera with real time data transfer to CPCB and JSPCB.



Reduction of Sp. Water Consumption

Reduction of Sp. DM Water Consumption

COC to be increased upto 8

All process drain to Buffer Pit (to make it usable after treatment)

Reuse of Treated CMB for ash handling, Fugitive dust control and Gardening.

Implementation of RWH

RO plant for re-use of wastewater

*Disclaimer: The contents of this presentation are private & confidential.
Please do not duplicate, circulate or distribute without prior permission.*



Thank You!

Website: www.tatapower.com

Email Id: lvaturi.rao@tatapower.com

Contact: (+91) 7700995201 OR 022 – 6717 5479