

Water Source Protection and Sustainability in Western India



Godrej & Boyce Case Study



Context

- Plant located in industrial area of district Raigarh, Maharashtra.
- Despite good rainfall, plant's watershed experiencing high water scarcity, arising mainly due to poor water storage and distribution systems.
- Existing freshwater source providing inadequate water resulting in shortfall.
- Groundwater not sustainable due to poor storage and transmission characteristics of local aquifers.
- Sea water intrusion posing risk of high salinity in groundwater

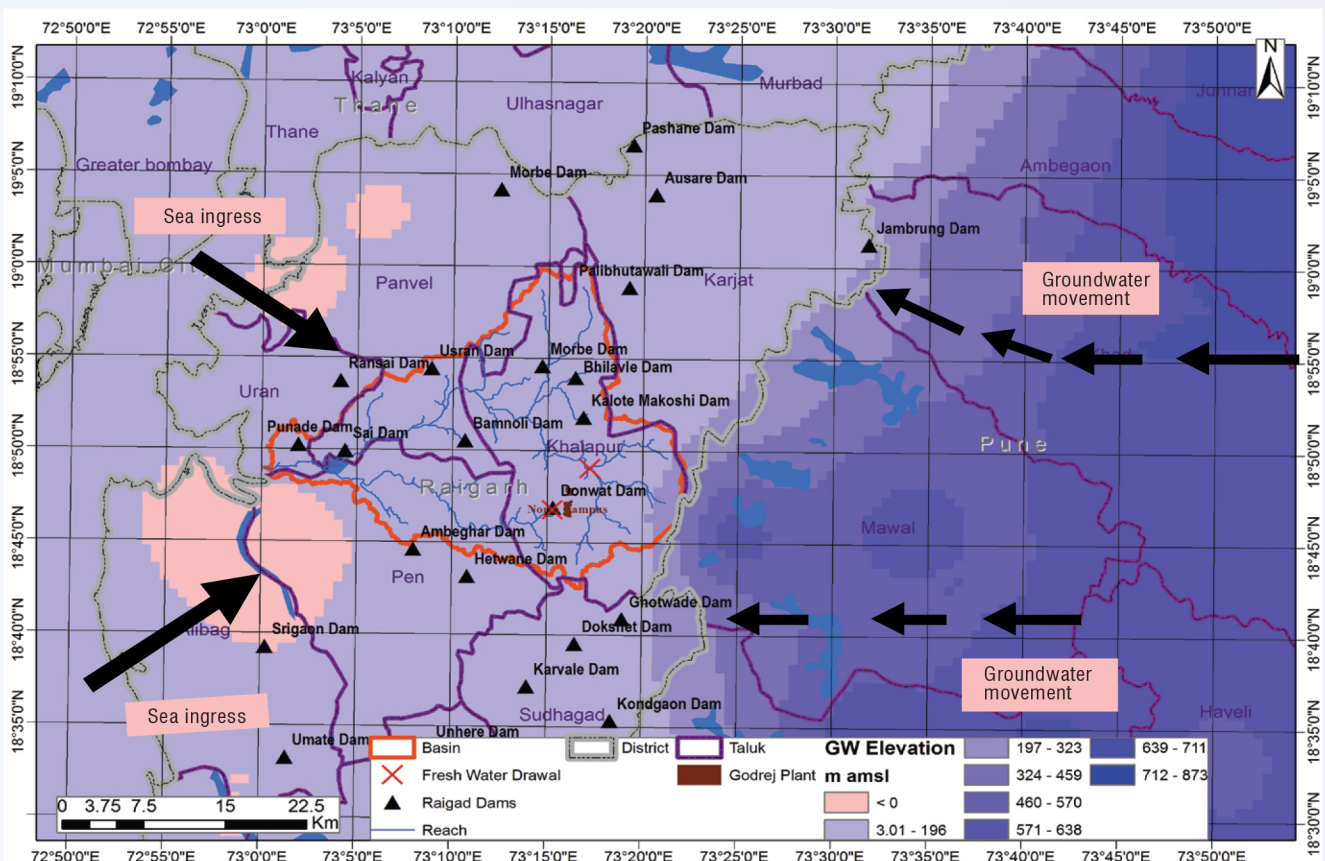
WATSCAN successfully applied for identification of sustainable freshwater sources for ensuring sustainability of plant operations

Findings

- WATSCAN involving interplay of ~11 million pixels successfully identified promising sites on River Patalganga for sourcing water to meet operational demand.
- WATSCAN successfully identified locations within the plant for rainwater harvesting to reduce dependency on external sources
- Locations for Check Dams and Storages important to hold and accumulate runoff successfully identified
- Recharge locations to mitigate sea water intrusion risk identified, to act as natural wall between land and sea

“WATSCAN provided us inputs and insights on what we could do to improve our water management and related initiatives within our Khalapur campus and in the vicinity for CSR and related initiatives.”

Anup Mathew
Sr. Vice President & Business Head
GODREJ CONSTRUCTION



Mapping risks from sea water ingress