

10 MGD Water Treatment Plant for Uluberia

Executive Summary:

Uluberia Municipality located in the District of Howrah has an area of 33 sq.km and population of 2.64 lakhs as per 2001 Census. The population for the year 2025 (the design period of the project) stands at 3.79 lakhs.

The entire Municipal area is dependent on, ground water sources for its water supply and is facing a severe water crisis due to depletion of ground water aquifer especially during summer months. River Hooghly, perennial surface water source, is flowing along with the periphery of Municipal Area.

The project is design to meet the water requirements of the Uluberia Municipal Area by installing a 10 MGD (45.40 MLD) Surface Water Treatment Plant (WTP) on the bank of river Hooghly. The treated water from WTP will replace the ground water based water supply system with dependable and safe Surface water and after completion with an implementation period of 36 months, 379 thousands; people will be benefited. The cost of the project is Rs. 4988 lakhs and is under JNNURM.

The project includes apart from WTP, an Intake Jetty, a Raw Water Pumping Station, a clear Water Reservoir (C.W.R) cum-Booster pumping Station of 1.2 M.G. capacity at the Treatment Plant Campus. From CWR, a combined conveyance main will be laid after which will be bifurcated and commissioned as a dedicated water main of 600-mm dia for a length of 6.5 km. to feed, another CWR-cum-Booster pumping Station of 10 MO capacity to serve a Separate Zone.

The existing Overhead Reservoirs will be fed from CWR cum Booster pumping station for equitable distribution. This; existing pipelines will be utilized for distribution with necessary augmentation. 135 litre per person per day will be provided to the projected population of Uluberia after implementation of the project. The project after implementation will be handed over to the Municipality for its Operation and maintenance.