

## Project Details

**Project Name :** Construction of Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Aburoad(RSTDIP/ABR/01)

### **Aburoad**

Scope of works to be included for Construction of water supply and sewerage works and Operation and maintenance of system for 10 years at Abu Road (Rajasthan) under RSTDIP (RUIDP Phase-IV) was discussed and approved in Work Finalization Committee meeting held on 05.02.2019.

### **Scope:**

#### **A. Water Supply**

- Construction of new Intake works with raw water pumping station at Bhaisa Singh dam;
- Construction of Water Treatment Plant (10.0 MLD capacity) at Santhpur;
- Construction of New Water Distribution Pumping Stations with Variable Frequency Drive Pumps at Gandhinagar, Housing Board, Market Area, Luniyapura and Santhpur(NayaKheda) and 5 Nos. of new Water Distribution zones will be served by Direct Pumping System (DPS) through Variable Frequency Drive(VFD) approach viz. zone no. 1,2, 3, 4 & 6;
- Construction of Clear Water Reservoir at Gandhinagar (600 KL), Housing Board (500 KL), Market Area (850 KL), Luniyapura (300 KL) and Santhpur (NayaKheda) (300 KL);
- Construction of 18 Nos. of tube wells at different locations in town.
- Rehabilitation, Repairs and Refurbishment of OHSRs, Pump House and Tube Wells & Open Wells;
- Supply, Laying, Jointing and commissioning of transmission mains of DI K-9 pipes in about 33 kms length;
- Distribution Network Improvement works on DMA basis for reduction of NRW in entire municipal limits. This includes laying of new water mains of HDPE (approx. length 144.00 kms) and DI K-7 pipes (approx. length 18.0 km) and making defunct existing old worn-out/undersized, AC/ PVC pipeline and extension of distribution system to uncovered areas;
- Restoration of roads;
- Metered House service connections for all consumers to cover 100% population (about 12,800 connections);
- Instrumentation and control system with SCADA system for efficient operation of the entire water supply system including control of all water installations.
- Master Control Centre, Centre control Centre, Consumer relation management center

#### **B. Sewerage**


- Providing sewage collection network in approximate length of 105.00 Km in municipal area and for sewer line by laying HDPE DWC SN-8 grade in 87.00 km; RCC NP4 vertical casted in 4.0 km; and HDPE PE-100/PN-6 in approximately 14.00 km by trenchless method where sewer depth is more than 3.5m and in the congested area, important roads/Circles of the city to reduce the inconvenience to the public during execution
- Providing approximately 11,600 House Sewer Connections from roadside inspection chamber to inside property to facilitate connection to the system by prospective consumers.
- Construction of Two Sewage Treatment Plant of 6.90 MLD & 2.30 MLD capacities.
- Treated Effluent reuse works including construction of Treated Effluent Elevated Reservoir (TEER), Treated Effluent Storage Reservoir (TESR), and Effluent Pumping Station (EPS).

- Faecal Sludge and Septage Management (FSSM) to provide low costs sanitation where sewer network is not an immediate requirement for population on outskirts and scattered habitation till laying of sewer line.
- Sewer line operation and maintenance equipments.
- CC/ BT road restoration, full width road restoration in CC (up to 4m) & BT (Up to 7m) depending on site condition.

**C. Operation and Maintenance services for 10 years:**

- Contract have provision of long term (10 years) Operation and maintenance services.
- Provision is kept for sectional completion. Sections on completion will be put to service as soon as they are commissioned. Scope will include O&M of system on sectional completion basis and on completion of Design Build works. It will include operation of pumps from Intake; all the transmission and distribution pipelines, meter reading, billing and revenue collection, Tube wells, STP(s); sewer line grievance redressal, house service connections and disconnection etc.,

- D.** Letter of acceptance (LOA) was issued on dated 11.05.2020 and Notice to proceed (NTP) was issued on dated 18.06.2020 to M/s Larsen & Toubro Ltd. **for the contract amount of Rs. 263,77,98,830/- including provisional sum of Rs. 2,50,00,000/-.**

  
 सहस्यक अभियन्ता  
**P.H.E.D., उपखण्ड**  
**आबूरोड (राज०)**