

**T/2450055/2022**

## **CONSTRUCTION OF WATER NETWORK TO ALSHARJAH AND TABAIB IN WILAYAT KHASAB AND BUKHA MUSANDAM GOVERNORATE**

### **SCOPE SYNOPSIS**

The “**EXTENSION OF WATER NETWORK TO SHARJAH AND TABAIB AT WILAYAT KHASAB AND BUKHA MUSANDAM GOVERNORATE**” comprises the following principal components: distribution network with all necessary accompanying equipment.

For both sites Sharja and tabaib village :

1. Construction of distribution network of 100mm & 150 mm DI ductile iron pipe class C25 or ISO 2531:2009(E) with cement mortar lining inside about for 7500 meter.
2. Construction of distribution network HDPE, OD 110 mm HDPE total length of 7000 m in residential area.
3. Construction of 180mm OD HDPE pipe for 300m.
4. All the work of excavation in Tabaib area involved with rock excavation.
5. Construction/installation of one (17) fire hydrant DN 100 mm on either HDPE or DI pipeline.
6. Construction of district metering chamber DMAs (electromagnetic water flow meter along with data loggers with total of 2 Nos.)
7. Construction of required isolation valves buried condition 19 No. either on HDPE or DI pipeline.
8. Construction of AIR Valves chamber 16 No.
9. Construction of Washout chambers 5 No.
10. Construction of PRV (pressure reduced valve) 3 No. 100mm & 3 No. 25mm.
11. Supply and install booster pumps (2+1), Q= 7 m<sup>3</sup>/hr, H= 120 m) with all required accessories such as VFD, PLC, GPRS-MODEM, SCADA Integration, power connection cable, commissioning,,,,,etc.
12. carry out surge analysis study with approved supplier to the proposed pumping & network system and accordingly supply and install the suitable surge vessel to be located inside the proposed pumping room or out the room with its required foundation depending on the surge volume and surge analysis report.