T-2460868 -2023

Construction of Sewage and Irrigation Connection Pipelines and Associated Works from Hai AL Naseem Project to Barka STP at Wilayat Barka

SUMMARY OF SCOPE FOR WORK:

The objective of this project is to transfer Sewage water from Hai Al Naseem by proposed lift station to the existing wastewater treatment plant (Barka STP), and to provide irrigation water (TE) from same STP by a transmission line through the same route of the force main.

The work shall include but not be limited to the following:

1. **Construction of sewage force main network include the followings:**
    - Connection of force main pipeline to Barka STP
    - Force main pipelines from the proposed lift station located in the north of Hai Al Naseem with approximate length of HDPE (PN 16) 7240 m DN 250 till the inlet of Barka STP
    - Air valve chambers with approximate No. 6
    - Washout valve chambers with approximate No. 6
    - Isolation valve chambers with approximate No.6
    - FOC ducts along force main pipelines in the same trench including uPVC 110mm duct (minimum invert level of 800 mm of OGL) and considering inspection chambers (Type-4 with maximum distance of 250m).

2. **Construction of irrigation transmission network include the followings**:
    - Connection from existing TE tank inside Barka STP
    - Irrigation pipelines from TE tank inside Barka STP to tie in located after the project boundary to transfer flow to other clients with approximate length of HDPE (PN 16) 7850 m DN 400
    - Irrigation pipelines & tie-in from irrigation pipelines DN400 to Irrigation tank located at the south edge of the project with approximate length of HDPE (PN 16) 1750 m DN 250
    - Tie-in from Irrigation pipelines DN400 to transfer flow approximate of 3000m3/day with HDPE (PN 16) DN 160
    - Two other tie-ins from irrigation pipelines DN400 to transfer flow to other future clients with HDPE (PN 16) DN 160
    - Air valve chambers with approximate No. 8
    - Washout valve chambers with approximate No. 9
    - Isolation valve chambers with approximate No.10
    - Flow meters with approximate No.3

3. Construction of road crossings as per specifications and drawings.

All required mechanical, electrical, instrumentation & SCADA and civil works.