

Brief Scope of Work

BACKGROUND:

This scope designed to cover & expand of distribution network for AL-Atkiya & various residential pockets in AL-Amirat Wilayat as the urban percentage is increasing fastly in following area:

- AL-Atkiya (1&2)
- AL-Alayah
- AL-Tbibah
- AL-Mandhariya
- Wadi AL-Sareen (AL-Thremidi village)
- AL- Hashiya (1,2&3)

The demand calculation was calculated for the area as per OWWSC standard (plot account method) & OWWSC prepared internally the design of networks for the new project, the study of project considered the hydraulic study and water supply philosophy to the demand area.

The ministry of housing and urban planning plots for various residential pockets contains 1255 plots approximately and currently there is around 500 house connections & hydraulic study resulted that the previous existing network will not be able to feeds all plots in those planned area & extension of HDPE pipeline with main diameter of, OD355mm, DN300mm, OD225mm, DN200mm, OD160mm, DN150mm& OD110mm should be constructed to feed the proposed network in this planned area.

SUMMARY OF SCOPE FOR WORK:

The scope of work includes civil works, procurement, construction and testing of water network with all related accessories ,installing house connections, hydraulic study, surveying, detailed design, profile drawing , engineering, manufacture, inspection and testing at the maker's works and at site, packing for export shipment, insurance, delivery to site, unloading, complete erection, site testing, start up, commissioning, performance testing, putting into operation; training of the Employer staff (or others) assigned to operate the Works; and maintenance support during the defects liability period, which expires one year after the completion of the whole of the works.

The Construction of water distribution network & house connections in AL-Atkiya & various pockets in AL-Amirat wilayat of Muscat Governorate comprises the principal components distribution network with all necessary accompanying equipment& the main Scope of Work for Contractor shall comprise some of the following:

1. Construction of distribution network, total length of 38,200 m
 - HDPE pipe with fittings, OD 110mm – 17,000 m
 - HDPE pipe with fittings, OD 160mm – 5000 m
 - HDPE pipe with fittings, OD 225mm– 4000 m
 - HDPE pipe with fittings, OD 355mm – 6000 m
 - DI pipe with fittings, DN 300mm – 3500 m
 - DI pipe with fittings, DN 200mm – 1000 m
 - DI pipe with fittings, DN 150mm – 1400 m
 - DI pipe with fittings, DN 100mm – 300 m
2. Construction/installation of (50 no.) of Fire hydrant

3. Construction/installation of (2 no.) of Pressure Reducing Valve
4. Construction/installation of (1 no.) of Flow Control Valve
5. Construction/installation of (3 no.) of DMA Flow meters
6. Construction of required isolation valves (41 no.)
7. Construction of Washout chamber (6 no.)
8. Construction of Air release valves (25 no.)
9. Construction of house connections (500 no.)