

SECTION 03: SCOPE OF WORK

Description of the Works

Project Brief

The scope of work includes inter alia civil and building works, procurement, construction and testing of water network; and Services design, engineering, manufacture, inspection and testing at the maker's works and at site, packing for export shipment, insurance, delivery to site, unloading, 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 "Extension Of Treated Effluent Network in A'Skakakeet, A'Seeb" comprises the following principal components: distribution network with all necessary accompanying equipment.

The main Scope of Work for Contractor shall comprise some of the following:

1. HDPE pipe OD 500 mm PN 16: 16,500 meters
2. HDPE pipe PD 315 mm PN 16: 10,500 meters
3. HDPE pipe PD 160 mm PN 16: 6,500 meters
4. HDPE pipe PD 63 mm PN 16: 7,000 meters
5. Tapping connections: 60 numbers
6. Cutting & Reinstatement Asphalt: 2,700 meters
7. Thrust boring DN 700 mm: 660 meters

Summary

a) The key components of the project are summarised in the table below.

b) Distribution Network

| Locations | Description | Unit | Approximate length & number |
|------------------|----------------------------------|-------------|--|
| Seeb | 500mm HDPE | m | 16,500m |
| | 315mm HDPE | m | 10,500m |
| | 160mm HDPE | m | 6,500m |
| | 63mm HDPE | m | 7,000m |
| | Gate Valve 300mm,160mm | Nr | 9 |
| | BV 500mm | Nr | 5 |
| | House connection 100mm | Nr | 50 |
| | HDPE pipe PD 63 mm PN 16: | | 4,000 meters |
| | Tapping connections: | | 60 numbers |
| | Cutting & Reinstatement Asphalt: | | 2,700 meters |
| | Thrust boring DN 700 mm: | | 660 meters |

The Employer has determined the pipe diameters and proposed routes of the pipelines to be constructed.

All necessary investigations, and preparatory work, including topographic survey of the pipeline route, geological survey for rock excavation and soil investigation surveys, are to be carried out by the Contractor, together with the obtaining of excavation permits and another other surveys, agreements and permits necessary for the construction of the Works.

The Contractor shall ascertain for himself the exact scope of work including all material / M&E Plant to be supplied such that the installation is complete and in working order on completion of the contract. It shall be the Contractor's responsibility to visit the site and ascertain for himself all the site constraints.

The minimum pressure rating for pipelines are specified and the Contractor shall demonstrate through calculations submitted to the Engineer that the pipes he proposes for the Works shall satisfy the requirements for maximum working pressure, surge and backfilling with external load conditions.