

# OMAN WATER & WASTEWATER SERVICES COMPANY

### CORPORATE MANAGEMENT SYSTEM

### Brief scope of work

Project Name: Construction of Water Distribution Network and House Connection in AL-Mahaj& Various pockets in AL-Amirat Wilayat of Muscat Governorate

#### 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-Mahaj & 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 22,200 m
- HDPE pipe with fittings, OD 110mm 8000 m
- HDPE pipe with fittings, OD 160mm 4000 m
- HDPE pipe with fittings, OD 225mm– 5000 m
- HDPE pipe with fittings, OD 315mm 1500 m
- DI pipe with fittings, DN 300mm 1500 m
- DI pipe with fittings, DN 200mm 200 m
- DI pipe with fittings, DN 150mm 300 m
- DI pipe with fittings, DN 100mm 1700 m
- 2. Construction/installation of (50 no.) of Fire hydrant
- 3. Construction/installation of (4 no.) of Pressure Reducing Valve
- 4. Construction/installation of (1 no.) of Small Booster pump
- 5. Construction/installation of (4 no.) of Flow meters
- 6. Construction of required isolation valves (60 no.)
- 7. Construction of Washout chamber (10 no.)
- 8. Construction of Air release valves (26 no.)
- 9. Construction of house connections (410 no.)

#### Summary:

The key components of the project are summarised in the table below:



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Locations	Description	Class	Approximate length of main required
In AL-AL-Mahaj& various pockets at AL- Amirat wilayat of Muscat Governorate project	110mm OD HDPE Pipe	PN 16	8000 m
	160mm OD HDPE Pipe	PN 16	4000 m
	225mm OD HDPE Pipe	PN 16	5000 m
	315mm OD HDPE Pipe	PN 16	1500 m
	300mm DN DI Pipe	Class 40	1500 m
	200mm DN DI Pipe	Class 40	200 m
	150mm DN DI Pipe	Class 40	300 m
	100mm DN DI Pipe	Class 40	1700 m
	Pressure Reducing valve chamber	PN 16/Dual stage type	4 no.
	Flow Meter including Data loggers	PN 16 /Electro- Magnetic type	4 no.
	Booster Pump	Vertical Centrifugal pump DN 100mm	1 no.
	100mm DN Fire Hydrants	Pillar type Anti- Theft protection	50 no.
	80mm DN Air release valve	Double orifice kinetic	26 no.
	Washout chamber	on HDPE pipe	10 no.
	Gate valves	DN 100mm	26
		DN 150mm	12
		DN 200mm	13
		DN 300mm	9



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Locations	Description	Class	Approximate length of main required
	Thrust boring/Road crossing	Horizontal Direction Drilling	400m
	Wadi crossing	Major wadi Protection	200m

#### Time for Completion of the Works

The whole Contract period for completion the works is *Eighteen (18) calendar month from commencement Date.*