

CONSTRUCTION OF WATER DISTRIBUTION NETWORKS FOR DA'AN AL HAMRA AND AL MA'AQAL VILLAGES AT JABAL AKHDAR IN NIZWA WILAYAT

T-2452217-2022

SCOPE OF WORK

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, 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 scope of the contractor's work includes the following:

1. Construction of connection points to existing DI DN200 mm transmission pipeline.
2. Construction of transmission pipeline from DI pipes DN 100 mm in diameter, total length of 11,190m.
3. Construction of 6 small break tanks on transmission pipeline.
4. Construction of distribution network pipeline from DI pipes DN 100 mm in diameter in Al Ma'aqal Village, total length of 559 m.
5. Construction of distribution network pipeline from DI pipes DN 100 mm in diameter in Da'an Al Ahmara Village, total length of 1,792 m.
6. Construction/installation of required fire hydrant (3 Nos).
7. Construction/installation of required Air valve (4 Nos).
8. Construction/installation of required washout (3 Nos).
9. Construction/installation of required Buried Valve (9 Nos).
10. Construction /installation of house connections. (13 Nos)

The key components of the Project are summarised in the table below.

Transmission Pipelines

Area	Nominal Diameter	Pipe Material	Pipe Class	Approximate required length
Jabal Akhdar	100 mm	DI	C40 (K9 fittings)	11,190 m
Total				11,190 m

Distribution Networks

Area / Village	Nominal Diameter	Pipe Material	Pipe Class	Approximate required length
Jabal Akhdar / Da'an Al Hamra	100 mm	DI	C40 (K9 fittings)	1,792 m
Jabal Akhdar / Al Ma'aqal	100 mm	DI	C40 (K9 fittings)	559 m
Total				2,351 m

House Connections

Area / Village	Nominal Diameter	Pipe Material	Pipe Class	Approximate required length
Jabal Akhdar / Da'an Al Hamra	32 mm	HDPE	PN 16	141 m
Jabal Akhdar / Al Ma'aqal	32 mm	HDPE	PN 16	92 m
Total				233 m

Small break tanks:

Area / Village	Description	Approximate required Number
Jabal Akhdar / Da'an Al Hamra & Al Ma'aqal	Construction of small break tanks on transmission pipeline	6
Total		6

Area / Village	Description	Class	Approximate required Number
Jabal Akhdar / Da'an Al Hamra & Al Ma'aqal	Fire Hydrants	In DI Pipe of OD 100	3
	Air Valves	In DI Pipe of OD 100	4
	Washout Valves	In DI Pipe of OD 100	3
	Buried Valve	In DI Pipe of OD 100	9
	House Connections		13