

Al-Dhale City_ Water Network Pipes

ALMTAR REGION

| | the item description | Unit | Qty | Unit Price (\$) | Total Price (\$) |
|-----------------------|---|------|------|-----------------|------------------|
| | <p>Supplying and installing medium pressure galvanized iron pipes according to British specifications BS/1387/1985 to work with an operating pressure of no less than 25 bar. The pipes shall be of galvanized iron, with threaded screws, and with a 6 inch diameter flange of 4 inch diameter sockets, taking into account the installation of all the special pieces required for the installation and extension of the pipes. The Joint UNION connection is installed for every 100 m of a diameter of 4 inches, the pipes are tied tightly, and the buried pipes are painted with a rust-resistant material. Then it is wrapped with an insulating material to protect it, and the price includes, (elbows, bolts and rubbers) needed for fixtures and work requirements, in addition to the requirements for interlocking the pumping line to the pumping station) with drilling the pipes</p> | | | | |
| A | <u>Extension of main and sub network lines (Polyethylene Pipes):</u> | | | | |
| A.1 | <p>HDPE Pipes: Supply and installation of polyethylene pipes (PE100) 16 Bar pressure according to (DIN8074 / 75) or ISO4427, the work include installation all fitting required for work such as (tee, elbow, socket, adaptor....etc.) and connect the new line with the exist line The work is well received and acceptable according to the directions of the supervisor. Samples must be submitted for approval before starting work</p> | | | | |
| 1 | HDPE pipes Ø 90mm, PE100, SDR11, PN16, (Produced in 100mtr/roll) | M.L | 1600 | | |
| 2 | HDPE pipes Ø 63mm, PE100, SDR11, PN16, (Produced in 100mtr/roll) | M.L | 2850 | | |
| 3 | HDPE pipes Ø 50mm, PE100, SDR11, PN16, (Produced in 100mtr/roll) Including of the Excavation and backfilling (with Sand etc...) | M.L | 1300 | | |
| A.2 | <p>Excavation in any type of soil and backfilling for the trench with depth not less than 60 cm in line with the attached drawing. All that include side shuttering support from the soil collapsing in certain time. The backfilling shall be filled with Sand on the side and bottom of the pipes with a thickness not less than 10 cm and above the pipes with a thickness not less than 30 cm and then the backfilling shall be filled with suitable soil from the excavation or imported to fill the layers , each layer 30 cm with spraying the water and compacted , according to the directives and instructions of the supervisor</p> | | | | |
| B | <u>Polyethylene Fittings:</u> | | | | |
| B.1 | <p>PP Compression Fittings: Supply and installation and Test of PP compression fittings (accessories), Polypropylene compression fittings according to DIN8075/8076 , UNI EN 10226-1 , with working pressure PN 16 . It shall be complementary with all other important features specified in section of technical specifications.</p> | | | | |
| B.1.1 | <u>PP Comperession Coupler:</u> | | | | |
| 1 | PP Comperession Coupler PN16, Ø 90mm, high pressure 16 bar. | NO. | 17 | | |
| 2 | PP Comperession Coupler PN16, Ø 63mm, high pressure 16 bar. | NO. | 37 | | |
| 3 | PP Comperession Coupler PN16, Ø 50mm, high pressure 16 bar | NO. | 37 | | |
| B.1.2 | <u>PP Comperession Coupling Reducer:</u> | | | | |
| 1 | PP Comperession Reducer Ø 90mm - 63mm, high pressure 16bar. | NO. | 8 | | |
| 2 | PP Comperession Reducer Ø 63mm - 50mm, high pressure 16bar. | NO. | 22 | | |
| 3 | PP Comperession Reducer Ø 50mm - 32mm, high pressure 16bar. | NO. | 12 | | |
| B.1.3 | <u>PP Comperession Equal Tee:</u> | | | | |
| 1 | PP Comperession Equal Tee, Ø 90mm, high pressure 16bar. | NO. | 18 | | |
| 2 | PP Comperession Equal Tee, Ø 63mm, high pressure 16bar | NO. | 22 | | |
| 3 | PP Comperession Equal Tee, Ø 50mm, high pressure 16bar. | NO. | 22 | | |
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| B.1.4 | PP Comperession Reducer Tee: | | | | |
| 1 | PP Comperession Tee Reducer Ø 90mm - 63mm - Ø 90mm, high pressure 16bar. | NO. | 6 | | |
| 2 | PP Comperession Tee Reducer Ø 90mm - 50mm - Ø 90mm, high pressure 16bar. | NO. | 12 | | |
| 3 | PP Comperession Tee Reducer Ø 63mm - 50mm - Ø 63mm, high pressure 16bar | NO. | 12 | | |
| 4 | PP Comperession Tee Reducer Ø 63mm - 32mm - Ø 63mm, high pressure 16bar. | NO. | 12 | | |
| B.1.5 | PP Comperession Elbow 90°: | | | | |
| 1 | PP Comperession Elbow, Ø 90mm, high pressure 16bar. | NO. | 4 | | |
| 2 | PP Comperession Elbow, Ø 63mm, high pressure 16bar. | NO. | 4 | | |
| 3 | PP Comperession Elbow, Ø 50mm, high pressure 16bar. | NO. | 6 | | |
| 4 | PP Comperession Elbow, Ø 32mm, high pressure 16bar. | NO. | 5 | | |
| B.1.6 | PP Saddle Clamp: | | | | |
| | PE Clamp Saddles with four bolts and all accessorices , with Outlet Thread (BSP FEMALE) (mm x mm - BSP Female) with pressure not less than PN16, as per below diameter and attached specifications: | | | | |
| 1 | PP Saddle Clamp Ø 90mm x 90mm", high pressure 16bar. | NO. | 50 | | |
| 2 | PP Saddle Clamp Ø 90mm x 63mm", high pressure 16bar. | NO. | 40 | | |
| 3 | PP Saddle Clamp Ø 90mm x 50mm", high pressure 16bar. | NO. | 30 | | |
| 4 | PP Saddle Clamp Ø 90mm x 32mm", high pressure 16bar. | NO. | 40 | | |
| 5 | PP Saddle Clamp Ø 63mm x 63mm", high pressure 16bar. | NO. | 30 | | |
| 6 | PP Saddle Clamp Ø 63mm x 50mm", high pressure 16bar. | NO. | 30 | | |
| 7 | PP Saddle Clamp Ø 63mm x 32mm", high pressure 16bar. | NO. | 30 | | |
| 8 | PP Saddle Clamp Ø 50mm x 50mm", high pressure 16bar. | NO. | 30 | | |
| 9 | PP Saddle Clamp Ø 50mm x 32mm", high pressure 16bar. | NO. | 30 | | |
| C | Galvanized Fittings & Valves | | | | |
| C.1 | Double Flange Gate Valve (Soft Sealing): | | | | |
| | Supply and installation of Double Flange Gate Valve (Soft Sealing) as per below diameter and attached specifications: | | | | |
| 1 | Ø 6-inch, high pressure. with all necessay Gasket , Bolt , nuts and washer steel grade for both flanges | NO. | 2 | | |
| 2 | Ø 4-inch, high pressure. with all necessay Gasket , Bolt , nuts and washer steel grade for both flanges | NO. | 4 | | |
| 3 | Ø 3-inch, high pressure. with all necessay Gasket , Bolt , nuts and washer steel grade for both flanges. | NO. | 8 | | |
| 4 | Ø 2-inch, high pressure. with all necessay Gasket , Bolt , nuts and washer steel grade for both flanges. | NO. | 20 | | |
| 5 | Ø 1 1/2",inch, high pressure. with all necessay Gasket , Bolt , nuts and washer steel grade for both flanges. | NO. | 55 | | |
| C.2 | Galvanized Nipple: | | | | |
| | Supply and installation of Galvanized Nipple as per below diameter and attached specifications: | | | | |
| 1 | Ø 3-inch, high pressure. | NO. | 12 | | |
| 2 | Ø 2-inch, high pressure. | NO. | 22 | | |
| C.3 | Galvanized Steel Flanges: | | | | |
| | Supply and installation of Galvanized Steel Flange including Galvanized bolts, nuts, washers and gaskets, as per below diameter and attached specifications: | | | | |
| 1 | Ø 4-inch, high pressure. | NO. | 6 | | |
| 2 | Ø 3-inch, high pressure. | NO. | 10 | | |
| 3 | Ø 1-inch, high pressure. | NO. | 22 | | |
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| D | <u>The Manhole:</u> | | | | |
| D.1 | <u>The Valve Chamber from Concrete Block</u> Construction of Valve Chamber including excavation, Reinforcement concrete work, block, Cover steel 60*60 cm, Cover Ductile Steel and everything it take to finish the work according to the directives and instructions of the supervisor. | | | | |
| 1 | (1.20*1.20) Meter | NO. | 16 | | |
| E | <u>Galvanized Steel Pipes:</u> | | | | |
| E.1 | <u>GI Pipes:</u> Supply and installation of Galvanized steel pipes from the organization's stores (in the places that required this) of medium series pressure, according to British Standard (BS- 1387/85) in thickness and weight that using for drinking water, threads from both sides according to British Standard (BS-21) with high pressure Socket female threads according to The International Standards organization (ISO - 49). the work includes transporting the pipes from the organization's stores, excavation, painting with an anti-rust material and impregnating the line with old lines. As per attached technical specifications: | | | | |
| 1 | GI Ø 6-inch | M.L | 40 | | |
| F | <u>Water Flow Meter:</u> | | | | |
| F.1 | <u>Water Meter with its accessories and riser pipe:</u> Supply and installation of Water Flow Meter as per B.S. 5728, ISO 4064, 75/33/EEC or any other equivalent international standards, as per below diameter and attached specifications: | | | | |
| 1 | Supply of riser pipe, GI, Ø1.5", medium, L=120cm | NO. | 150 | | |
| 2 | Supply of PP elbow 90°, PP, Ø1.5" | NO. | 150 | | |
| 3 | Supply of GI male reducer, Ø1.5" to Ø1" | NO. | 150 | | |
| 4 | Supply of GI Tee, Ø1.5" | NO. | 150 | | |
| 5 | Supply of GI Nipple, Ø1" | NO. | 150 | | |
| 6 | Supply of GI Tee, Ø1" | NO. | 150 | | |
| 7 | Construction of concrete supports measuring 40 * 30 cm to support props and at a mixing ratio of 1:2:4 for each of (cement: sand: aggregate). The work includes drilling, woodworking, blacksmithing, mixing and spraying for five days (twice a day), under the supervision of the supervising engineer. | NO. | 150 | | |
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| The total Value of completed work \$ | | | | | |