

**BHEL::HYDERABAD**

**M&S-P&C-DEPARTMENT**

**TENDER REF.M&S/P&C/2019/73 DT.01/11/2019**

**Name of work: Laying of water pipeline above the ground in LPG storage yard – Reg.**

**Scope of work**

Sl..	Description of works
1	Welding of MS pipeline (8") including Flanges
2	Welding of MS pipeline (4") including Flanges, Tees and Elbows
3	Shifting and laying of fabricated 8" pipeline outside the LPG Yard
4	Shifting and laying of fabricated 4" pipe inside the fabricated 8" pipe at outside the LPG yard
5	Welding of MS pipeline (3") including Flanges
6	Welding of MS pipeline (2") including Flanges
7	Welding of MS pipeline (1.5") including Flanges and Elbows
8	Welding of MS pipeline (1") including Flanges and Elbows
9	Fabrication of support (Tee shape) for 4" water pipeline with 'C' Channel
10	Fabrication of holes in fabricated pipeline supports
11	Shifting and fixing the fabricated supports inside the LPG yard at a certain distance at an identified locations
12	Laying of fabricated 4" pipes on fabricated supports
13	Fixing the flanges of fabricated 4" pipes with nut-bolts and metal gaskets
14	Fixing the 4" U Clamp with support to hold the positioned 4" pipes throughout the overall length
15	Shifting and fixing of fabricated 3" pipes in positioned 4" pipes for fixing the hydrants and monitors
16	Shifting and fixing the fabricated 2" pipe with existing water sprinkler pipeline of bullets
17	Shifting and fixing the fabricated 1 1/2" pipe with existing water sprinkler pipeline of LPG unloading tanker
18	Shifting and fixing the fabricated 1" pipe with existing water sprinkler pipeline of vapourizer and LPG unloading shed
19	Shifting and fixing the fabricated 1" pipe with existing water sprinkler pipeline of vapourizer.
20	Fixing the existing hydrants and monitors with fabricated 3" pipes.
21	Pressure Testing of fabricated 4" pipes at outside the LPG yard to ensure no leaks
22	Testing of fire protection in AUTO MODE. In addition, it is to ensure proper functioning of all the water sprinklers in AUTO MODE.

**IMPORTANT NOTE: (a) ALL REQUIRED FABRICATION WORK TO BE DONE OUTSIDE OF THE LPG PLANT KEEPING PROPER DISTANCE TO LPG PLANT.**

**(b) SHIFTING OF FABRICATED MATERIAL INTO LPG YARD NOT TO BE DONE BY ANY TYPE OF VEHICLE FOR THE SAFETY OF LPG PLANT.**

1. Welding M/C is in the scope of contractor.
2. Spanners and M/C tools will be in the scope of contractor.
3. Pressure testing M/C is in the scope of contractor.
4. Provision of PPE's (i.e. Welding shield, Goggles, Uniforms, Hand Gloves and Spark proof Safety shoes) is in the scope of contractor.
5. Arranging of manpower for the subject work is in the scope of contractor.
6. Welding rods will be in the scope of BHEL.
7. All materials like pipes, flanges, elbows, tees, gaskets etc. are in the scope of BHEL.

SIGNATURE & SEAL OF CONTRACTOR