Ref.: PMD/Tender Inv/2019/1

Sub.: Fabrication and laying of air compressor line, vacuum line, HDPE pipeline, cooling water line, MS and SS base frame for pumps, working platform and acrylic enclosure for hydraulic press, SS trolley for shifting compacts and miscellaneous works as per annexure-1

For & on behalf of the President of India, quotation in sealed cover is invited for the above-mentioned work at Powder Metallurgy Division, BARC Vashi Complex, Navi Mumbai-400703. The quotation in sealed cover super scribed as “Fabrication and laying of air compressor line, vacuum line, HDPE pipeline, cooling water line, MS and SS base frame for pumps, working platform and acrylic enclosure for hydraulic press, SS trolley for shifting compacts and miscellaneous works as per annexure-1” and addressed to Shri Rajesh Kharwar SO/D, Powder Metallurgy Division, BARC Vashi Complex, Sector 20 Vashi, Navi Mumbai - 400703, should reach him on or before 17.30 hrs., 23.09.2019 by **Speed Post/Registered post** only.

The scope of work in annexure A are enclosed herewith. The tenderer should write the rate quoted by him in words as well as in figures. All corrections must be attested by the dated initials of the tenderer.

The time allowed for completion of work/job is 45 working days. The same shall be reckoned from the date of issue of work order. The acceptance of the tender rests upon the undersigned with a right to reject the tender in full or part without assigning any reason.

Thanking you,

Yours faithfully,

(Rajesh Kharwar)
SO/D, PMD
ANNEXURE-1

Fabrication and laying of air compressor line, vacuum line, HDPE pipeline, cooling water line, MS and SS base frame for pumps, working platform and acrylic enclosure for hydraulic press, SS trolley for shifting compacts and miscellaneous works as detailed below at PMD, Vashi Navi Mumbai.

Scope of Work:-

1. MS structure base frame made of ISMC 125 x65 of size 400mm X400mm for venturi scrubber recirculation pump should be modified to replace the existing monoblock pump with SS centrifugal pump. The base need to be modified to suit the SS centrifugal pump and dismantling of the mono block pump and replacing with centrifugal pump.

2. Laying of ½" OGI Jindal C class pipe with necessary pipe fittings for cooling water inlet/outlet line for the mechanical seal of SS centrifugal pump from cooling water line.50mmX50mm MS angle support may be given to cooling water line and its header with anchor bolt and U bolt supports for the pipe.

3. Existing 1.5" OMS air compressor line of metre length with pipe fittings should be dismantled. New pipeline should be laid. Pipe fitting should be socket welded. Necessary pipe supports should be provided to the compressor line.

4. 1 ½" seamless MS pipe 40 schedule of about 18 meters for air compressor should be laid to withstand the working pressure 100psig. 1 ½" long reduce elbows - 3 Nos. 1 ½" Tee- 4 Nos, 1 ½" X ¾" reducers- 4 Nos., 1 ½"X1 ½" equal Tee, 1 ½" End cap, 3/4" seamless pipe - 25 meters, 3/4" union-8 Nos, Gate Valve- 4 Nos., Elbow 18 Nos., Reducer Tee- 1 No. Equal Tee- 1 No., Coupling- 8 Nos. 3/4" X ½" Reducer Tee - 1 No., ½" pipe - 6 meters, ½" elbows, reducers, coupling etc.

5. Part of existing vacuum line of about 6 meters of 3/4" seamless MS pipe should be changed with a new pipeline. The following pipefittings 3/4" gate valve 2 Nos., 1/2" gate valve-3 Nos., 3/4" elbow - 6 nos., 3/4" union, 1 1/2" union - 1 No. 1 1/2" elbow -1 No.,3/4X1/2" reducer, ¾ X 3/4" tee-2 Nos. 1½ X ½" Tee- 1 No. ½" Hex Nipple - 7 Nos. 1½" X 3/4" reducing Tee - 1 No. Should be replaced in the existing vacuum line.

6. Laying of HDPE piping of 50mm dia of 10 Kg/cm² designed pressure and required piping accessories and necessary modification in the pipeline and its support for existing venturi scrubber system. The HDPE pipeline need to be modified to accommodate rotameter, control valves in the venturi recirculation line and venturi scrubber feed line. Replacing of 10mm Ø SS nuts and bolts in the pipeline and flanges.

7. Fabrication of SS scoop with 600 mm handle for charging crystals into induction furnace of decomposition system.

8. Fabrication & installation of SS frame structure 400mm X 210mm for 1” magnet pump for the transfer of effluent from FRP tray of two filter press. Outlet line of pump should be connected to the treatment tank. The inlet line of pump should be flexible reinforced pvc pipe. Dismantling of magnet pump and installation of the pump on the SS base frame.

9. Replacing of 4 Nos. of is propylene 2” ball valve in the existing HDPE pipeline

10. Dismantling & replacing of existing MS sliding door with top mounting aluminium sliding door for sintering furnace enclosure of size 2500 X 1800. The door should have 6 partition. The sliding door should be provided with transparent acrylic sheet partition of size 1100mm X 1800 for visibility in the door
11. 50mm X 5 mm MS bracket assembly for lifting and tilting of drum carrying 200 Kgs mass. The M.S. bracket assembly should have locking arrangement for controlled tilting for removal of material from the drums.

12. SS trolley platform size 1050mmX600mmX3mm, legs of 40X40X2, Height-1500mm with 4 wheel arrangement for handling of 200 kgs of compacts to shift compacts from hydraulic press area to sintering furnace area.

13. Cleaning and painting of 2150mmX1065mm MS stand in the sintering furnace area.

14. Acrylic sheet enclosure for hydraulic press of 25mm X 25mm M.S angle around 72 tonnes hydraulic press of size 1200mm L X835mm X 2150mm

15. Working platform for hydraulic press of 50mm X50mm M.S. angle and 2mm M S sheet of size 870mmX450mm with 3 steps of size each 870mm X 300mm and total height of the platform should be 2475mm from ground.

16. Dismantling of 26 metres of 1” GI pipe recirculation line with 8 Nos. of valve from the filter press to effluent storage tank.

17. Shifting and cutting of high-density graphite block into size as detailed below and cleaning the area after cutting. The larger high-density graphite blocks of 600mm X 300mm X2500mm long to be shifted from storage place to workshop site and back to storage place and cutting the block into two pieces.

(Rajesh Kharwar)
SO/D, PMD