

Bharat Heavy Electricals Limited
Ramachandrapuram : : Hyderabad – 502032
M&S - DIVISION

PRICE BID FORMAT-6C

TENDER No.: M&S/P&C/2021/75, DT.:04.01.2022

NAME OF WORK: Fabrication of Raw water and Coil water Tanks for 2.5T Induction Furnace, 30T Core Drying Oven, Rotoclones (3 Nos.), Fabrication of Sand mixer in F&P 04, 05 Blocks.

S.No.	Description of Work	Unit	Qty.	Unit Rate (in Rs.)	Amount (Qty. X Unit Rate)
A: 2.5T Induction Furnace Water Tanks (204115, 1116, 1120) - 04 Block					
Raw Water Tank					
1	Dismantling the existing MS Raw water tank of size (5150mm X 2150mm X 1500mm) by gas cutting and also removal of all pipe lines at flange zone points (6 No.)	Lumpsum	1	21560	21560
2	Fabrication of new MS tank with dimensions (5150mm X 2150mm X 1500mm - 44Sq.m.) for Raw water. The tank shall be fabricated in the pit where the existing tank is present. The Tank shall be open from the top. The Bottom plate and the Four sides of the tank shall be 12mm in thickness. The Tank shall be suitably reinforced from all sides with proper channel and angles to avoid any buckling. The bottom of the tank shall be provided with suitable resting arrangement. Tank Shall be leak proof. And the tank shall also have necessary pipe line connections, including drain discharge points & over flow points.	Ton	4.15	25200	104580
3	Connecting and fixing of all necessary pipe lines and 9 flanges at 9 locations as decided by the shop executive.	Lumpsum	1	1800	1800
4	Internal & external Painting of whole structures, tanks & pipelines with one coat of Epoxy Red Oxide Zinc Chrome primer and two coats of Epoxy paint. (Make - Asian Paints / Burger/ Jenson & Nicholson)	Sq. meter	88	360	31680
Coil Water Tank					
1	Dismantling of existing MS water tank of size (1900mmX 1900mm X 2500mm) by gas cutting and also removal of all pipe lines at flange zone points (3 nos.). This tank water is used for cooling the induction coil of the furnace.	Lumpsum	1	16464	16464
2	Fabrication of new tank with the dimensions (1900mmX 1900mm X 2500mm - 26Sq.m.) for the above as at point no. 5 above at the available space. The Bottom plate, Top plate and the Four sides of the tank shall be 12mm in thickness. The Tank shall be suitably reinforced from all sides to avoid any buckling with proper channel and angles. The bottom of the tank shall be provided with suitable resting arrangement. Tank Shall be leak proof. The tank shall also have necessary pipeline connections, including drain discharge points, over flow points.	Ton	2.5	25200	63000
3	Fixing and connecting of all necessary pipelines and flanges as decided by the shop executive. (Water level & Over flow line to be made)	Lumpsum	1	1800	1800
4	Internal & external Painting of whole structures, tanks & pipelines with one coat of Epoxy Red Oxide Zinc Chrome primer and two coats of Epoxy paint. (of Reputed Make like Asian Paints / Burger)	Sq. Meter	52	360	18720
5	Any other fabrication works (10 Sq.m approx.) required to complete the Raw water Tank and Induction Coil cooling water Tanks setup to 2.5T induction furnace without any deviations. Any other works not indicated here and which are required to complete the total activity are to be taken up by the contractor.	Ton	0.95	25200	23940
6	Any other painting work not mentioned above but required to carry out to complete the work shall be taken up by the contractor.	Sq. Meter	10	360	3600
7	Shifting of all scrapped MS structures, plates to designated location as directed by shop maintenance supervisor / incharge is in the contractor scope.	Ton	7.25	3000	21750
B: 30T Core Drying Oven (204-1242) - 04 Block					

1	Dismantling of damaged L shaped Re-circulating air ducting (internal East side).	Ls	1	10800	10800
2	Fabrication and fixing of L shaped Recirculating air ducting (Approx.- 0.45T) with 3.15mm MS sheet to internal East side of the oven. (Dimensions : 570x 950x8000mm)	Sq. Meter	18	840	15120
3	Dismantling of damaged internal Roof sheet at entrance of both sides of the oven & outer/External roof sheet of the oven (on South side) alongwith ceramic fibre glass lining in between the damaged portions.	Ls	1	9600	9600
4	Fabrication and fixing of 3.15mm thick MS sheet at required places of internal roof of the oven (Approx. 24 Sq.meters).	Sq. Meter	24	1400	33600
5	Providing Ceramic fibre insulation of 150mm thick for the above mentioned work in Sl. No. 4.	Ls	1	7200	7200
6	Fabricating and fixing of MS sheet of 3.15 mm to the roof (south side) for arresting the heat losses from south side roof hole (Approx. 0.125T).	Sq. Meter	5	1400	7000
7	Dismantling of damaged inner front plate of the oven (south side).	Ls	1	3600	3600
8	Fabrication and fixing of new 3.15mm thick MS plate to inside front plate of oven (0.15T)	Sq. Meter	6	810	4860
9	Providing Ceramic fibre insulation of 150mm thick (South side) to above mentioned work in Sl. No.8.	Ls	1	4800	4800
10	Fabrication and fixing of downcomer ducts on East & West side of the chamber and connecting to main ducting line.	Sq. Meter	42	2250	94500
11	Dismantling of damaged portion of outside oven body (south side)	Ls	1	6000	6000
12	Fabrication and fixing of MS sheet (3.15mm thick x 5Sq.m) to Oven body as required.	Sq. Meter	5	840	4200
13	Providing Ceramic fibre insulation of 150mm thick for above mentioned work in Sl. No. 10	Ls	1	4800	4800
14	Dismantling, Preparing as per requirement and fixing of 150mm insulation lining (with Ceramic fibre /Blanket with Mesh) to Re-circulating blower (East & West Side)	Sq. Meter	81	720	58320
15	Dismantling of damaged portion of the oven door on south side.	Ls	1	4800	4800
16	Fabricating and fixing of South side door with 3.15mm thick MS sheet.	Sq. Meter	40	840	33600
17	Placing of 150mm thick insulation lining in between the sheets in the above mentioned work in Sl. No. 16.	Ls	1	4800	4800
18	Burner base flange plates (02nos.) to be welded properly to the Main shell of combustion chamber	Lumpsum	1	6000	6000
19	Removal of old insulation & Placing of new thermal wool insulation about 150mm thick surrounding Horizontal Exhaust Duct (2mx10m)	Sq. Meter	20	360	7200
20	Servicing of door movement entire system. There are two doors. One on the north side and the other on the South Side.	Lumpsum	1	3600	3600
21	Removal of the old Producer Gas Line of 7" diameter.	RMT	12	1200	14400
22	Provision of Belt guards & Safety covers (02nos. Each) for blowers.	Lumpsum	1	8400	8400
23	Strengthening of working platform with 6mm thick MS Chequered plate on North side.	Ton	0.2	25200	5040
24	Strip welding at leakage places. (Welding to be done at all leakage places on the whole external surface on East & West Side of the oven by placing sheet strips)	RMT	120	420	50400
25	Any other fabrication work which is not mentioned in the above scope but required to complete the structural repair works shall also be carried out by the contractor.	Sq. Meter	10	840	8400
26	Painting of internal surface with one coat of red-oxide & external surface of furnace with one coat of aluminum paint.	Sq. Meter	400	240	96000
27	Shifting of all scrapped MS structures, plates to the designated location as directed by shop maintenance supervisor / incharge is in the contractor scope.	Ton	2	3000	6000

C: Rotoclones

60HP X 2 Numbers (2041393 & 2041398) - 04 Block (Model RCN-24C & IAEC centrifugal Fan Model K-34)

1	a) Dismantling of the dust collection water tank of the rotoclone alongwith gearbox assemblies. b) Removing the accumulated mud in the tank and cleaning it thoroughly.	Lumpsum	2	7200	14400
2	Fabricating and welding of 3.15 mm SS sheet below level line of mud travelling zone at inside surface of tank (Each rotoclone 3 sqm X 2 Nos.)	Sq. Meter	6	1800	10800

3	Welding of 3.15 thick M.S. sheet at water leakage points of water storage tank (Each rotoclone 10 sq.m.X 2 Nos.)	Sq. Meter	20	840	16800
4	Cleaning of Exhaust Duct including Impellers zone (Duct size : 800mmx400mmx50meters length) for 2 rotoclones	Lumpsum	1	12000	12000
5	Cleaning of suction Ducts (Duct size : 400mmx300 mmx40meters length) each 20 meters X 2 numbers	Lumpsum	1	9600	9600
6	External Painting of whole structures, tanks and suction & exhaust duct pipelines with two coats of enamel paint.	Sq. Meter	400	72	28800
7	Any other fabrication works (20Sq.m X3.15mm MS) not indicated here and which are required to complete the total repair activity of the Rotoclones are to be taken up by the contractor.	Sq. Meter	20	840	16800
8	Shifting of all scrapped MS structures, plates to designated location as directed by shop maintenance supervisor / incharge is in the contractor scope.	Ton	0.5	3000	1500
90HP X 1 Number (2041391) - 04 Block (Model RCN-28C & IAEC Centrifugal Fan Model K-34)					
1	a) Dismantling of the dust collection water tank of the rotoclone alongwith gearbox assemblies. b) Removing the accumulated mud in the tank and cleaning it thoroughly.	Lumpsum	1	7200	7200
2	Fabricating and welding of 3 mm SS sheet (approx 3 sq. meters) below level line of mud travelling zone at inside surface of tank	Sq. Meter	3	1800	5400
3	Welding of 3.15 thick M.S. sheet (approx. 10Sq.meters) at water leakage points of water storage tank.	Sq. Meter	10	840	8400
4	Cleaning of Exhaust Duct including Impellers zone (Duct size : 1000mmx800mmx25Meters Length)	Lumpsum	1	14400	14400
5	Cleaning of circular Suction duct (Duct size : Dia 600mmx30Meters Length)	Lumpsum	1	13200	13200
6	External Painting of whole structures, tanks and suction & exhaust duct pipelines with two coats of enamel paint.	Sq. Meter	300	72	21600
7	Any other fabrication works (5 Sq.m x 3.15mm Sheet) not indicated here and which are required to complete the total repair activity of the 90HP Rotoclone is to be taken up by the contractor.	Sq. Meter	5	840	4200
8	Shifting of all scrapped MS structures, plates to designated location as directed by shop maintenance supervisor / incharge is in the contractor scope.	Ton	0.5	3000	1500
D: Sand Mixer (2051035) - 05 Block					
1	a) The sand solid formed around the machine are to be removed and the area is to be cleaned. b) Cutting the platform supporting pillars and removing them from the RCC foundation.	Lumpsum	1	24000	24000
2	Fabricating of structures a) Erection of supporting pillars including RCC breaking & concreting b) Fabricating Level-1 (operator level) platform, Stair case, Hand Rails at the level of Existing Height (2m height from ground). c) Fabricating Level-2 (Sand Bin unloading) platform, Stair case, Hand Rails. Platform 6mm at the level of Existing Height of 5.1 meters from the ground level, Stair case from level -1 to level-2, Hand Rails at level -2. d) Provision of supporting structures for hopper as per the site condition. e) The platform shall be made from 6mm thick MS Chequered Plate, Total approx. area - 40 Sq. Meters.	Ton	2.2	25200	55440
3	Fabrication of bunker structures with M.S. materials for holding the Sand. Hopper /Bunker overall dimensions: 2500mm x 2000mm x 2000mm. The hopper should be fabricated from 6mm MS Sheet (30Sq.meters approx.) with connecting pipe of 6" between Hopper & Sand Mixer.	Ton	1.2	25200	30240
4	A valve to be provided at the operator level for controlling the sand flow from hopper to mixer (Supply of valve is under contractor scope).	Lumpsum	1	6000	6000
5	Painting of whole structures with one coat red oxide and two coats of enamel paint. (Mixer, Stair case, Hopper)	Sq. Meter	60	72	4320
6	Any other fabrication works not indicated here and which are required to complete the total activity is to be taken up by the contractor.	Ton	0.5	25200	12600

7	Shifting of all scrapped MS structures, plates to designated location as directed by shop maintenance supervisor / incharge is in the contractor scope.	Ton	0.5	3000	1500
Total Estimation: Rupees Eleven Lakhs Forty Two Thousand Six Hundred and Thirty Four					₹ 11,42,634
GST: EXTRA AS APPLICABLE					

Note:

All painting related material shall be supplied by the Vendor and the rates for those material are included in above estimation.

Note:- The vendors are required to quote their tender value on percentage (%) basis at any one of (a) excess or (b) less or (c) on par with			
SNO	Description	Tender % (in Figures)	Tender % (in words)
(a)	Excess		
(b)	Less		
(c)	Estimate Rate only		

SIGNATURE AND SEAL OF CONTRACTOR