



Bharat Heavy Electricals Limited

UNIT:TIRUCHIRAPPALLI

MACHINERY REQUIRED

BHEL requires the following special purpose welding, forming, heating, handling and electrical machinery/equipment and accessories for its Capacity Augmentation Scheme for Boiler Shops (Phase-II) being implemented at Tiruchirappalli. Full details for each item will be posted on BHEL's website <http://www.bhel.com> (Tender Notifications page) and on the Govt Tenders website <http://tenders.gov.in> (Public Sector Units > Bharat Heavy Electricals Limited page) from time to time. Interested parties are advised to visit the above websites regularly to obtain the full tender details for each item as and when they are posted.

Sl.No	Description	Qty
1	Automatic Cutting and End Preparation machine for tubes	2
2	CNC-Controlled System Bender for serpentine tube coil formation	1
3	Flash Butt Welding Machine with Process Monitoring Facility for production of Tubular Butt Joints	2
4	Special purpose hydraulically operated Squeezing and Sizing (in Hot Condition) Press for forming Hairpin type tube bends	4
5	Induction Heating System for heating the tube bends	4
6	Orbital Tube Butt Welding Station	6
7	Mechanized Handling System for tube butt welding station	6
8	LPG Fired Continuous Discharge Furnace	1
9	LPG Fired High Temperature Solution Annealing Furnace	2
10	Pneumatically operated Tube Insert and Tube End Scarfing Machine	20
11	Inverter Controlled 600 Amps (100% Duty Cycle) Manual Arc Welding Machine	12
12	Special Purpose Hydraulically Operated Press for Swaging and Upsetting of Seamless Steel Tubes	1
13	Tubular Panel Bending Machine with Oblique Bending facility	1
14	Hydraulically operated Vertical Offset Press for forming tube bends	1
15	8000 Ton Hydraulic Forming Press	1
16	Bandsaw with Rotary Table for Sizing of Forged Steel Fittings (Elbows and TEEs)	2
17	Twin type Traveling Column CNC Boring Machine for Edge Machining of Drum 'U' Shells	1
18	Variable Speed Job Rotator (150 Ton, 200 Ton Capacity)	4
19	20 Ton Battery Operated Heavy Duty Fork-Lift	1
20	Traveling type Column and Boom Semi-Automatic Welding Station for Circumferential and Longitudinal Seam Welding	2
21	CNC-Controlled Shallow Gantry type Pipe Drilling Station	1
22	CNC Horizontal Boring Machine	2
23	Bandsaw for sizing of pipes with handling facilities	1
24	Goose Neck type hydraulically operated Press of 600 Ton capacity	1
25	LPG-fired Box Type Heating Furnace of 40 Tons capacity	1
26	CNC-Controlled Incremental Induction Pipe Bending Machine (OD 1400 mm)	1
27	CNC-Controlled Incremental Induction Pipe Bending Machine (OD 600 mm)	1
28	End Preparation Machine for pipes (200 mm diameter)	6
29	Double Girder (Box Type) 100 Ton EOT Crane with VVVF Drives and Radio Remote Control for 24 M span	1
30	Double Girder (Box Type) 50 Ton EOT Crane span with VVVF Drives and Radio Remote Control for 30 M span	1
31	Double Girder (Box Type) 50 Ton EOT Crane with VVVF Drives and Radio Remote Control for 24 M span	1
32	10 Ton EOT Crane with Telescopic Manipulator	1
33	Double Girder (Box Type) Gantry Crane of 40 Tons capacity with Radio Remote Control for 32 M span	4
34	Double Girder type electrically-operated 3 Ton Semi-Gantry Crane for 14 M span	15
35	Double Girder type electrically-operated 5 Ton Semi-Gantry Crane for 14 M span	12
36	Double Girder (Box Type) 10 Ton EOT Crane with VVVF Drives and Radio Remote Control for 30 M span	21
37	Double Girder 3 Ton EOT Crane for 18 M span	6
38	Double Girder (Box Type) Gantry Crane of 20 Ton capacity with Radio Remote Control for 32 M span	3
39	300 Ton Boiler Drum Transportation Wagon	1
40	Electronic Lorry Weigh Bridge of 80 Ton capacity	1
41	Double Girder (Box Type) Gantry Crane of 25 Ton capacity for 16 M span	1
42	Multi-stage Centrifugal Air Compressor of rating 3000 cfm @ 8 bar	2
43	1000 kVA Diesel Generating Set	1
44	DROP Weight Tester	1
45	Universal Testing Machine of Capacity 1000 kN	1
46	Traveling column type Heavy Duty Radial Drilling Machine	3
47	Pipe-to-pipe and Pipe-to-fitting Butt Welding Station with Job Manipulator and Welding Flux Recycling Units	6
48	Double Girder (Box Type) 20 Ton EOT crane with VVVF Drives and Radio Remote Control for 24 M span	3
49	Double Girder (Box Type) 20 Ton EOT crane with VVVF Drives and Radio Remote Control for 30 M span	21
50	Battery-operated Powered Trolley of 20 Ton capacity	13
51	Real Time Radiography System consisting of 320 kV X-Ray Unit and Digital X-Ray Image Processing Unit (Flat panel) for butt welded tube joints	4
52	Mechanized Tube Handling System with Kick-off facility for handling 24 M long steel tubes	2
53	Mechanized Tube Handling System with Kick-off facility for handling 72 M long steel tubes	1
54	Computerized Radiographic Digitization System (inclusive of Scanner and Flexible Phosphor Imaging Plates)	1
55	11 KV/415 V Transformer	1
56	11 KV Vacuum Circuit Breaker	1
57	11 KV XLPE cable	1
58	MV Panel board with ACB, Fuse switches	1
59	MV cables	1
60	Fuse distribution and MCB distribution boards	1
61	High bay light fittings and street light fittings	1
62	Industrial fans	1
63	Auto Power factor control panel	1
64	Expansion of 110 KV substation involving 110 KV transformer, SF6 breaker, isolator, CT, lightning arrestor etc.	1

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