

Title of Doc. : LIST OF PLANT & MACHINERIES

ISO Clause : 7.5.3

Unit II : TLT DIVISION

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MANUFACTURING CAPACITY FORM : SOURCE (OWNED BY SSPL)

FABRICATION SHOP

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	CNC Machines: A166T (Ficep)	160x 160x 19	Cutting/ Marking/ Punching	2
2	CNC Machines: A164T (Ficep)	160x 160x 19	Cutting/ Marking/ Punching	1
3	CNC Machines: A124T (Ficep)	120x 120x 13	Cutting/ Marking/ Punching	3
4	CNC Machines: HP124T (Ficep)	120x 120x 13	Cutting/ Marking/ Punching/ Notching	1
5	Manual Universal: 1105 (Ficep)	130x 130x 12	Cutting/ Punching/ Notching	1
6	Taco- 801 (Ficep)	30mm dia	Plate Punching	1
7	CNC Drilling Machine: 601 DZB (Ficep)	40mm dia upto 40mm thick	Marking/ Drilling/ Sawing	1
8	CNC Drilling Machine: HP 25 T (Ficep)	40mm dia upto 250x 250x 40mm	Marking/ Drilling/ Cutting	2
9	CNC Drilling Machine: HP 35 T (Ficep)	40mm dia upto 350x 350x 40mm	Marking/ Drilling	2
10	CNC Plate Processing Machine: Tipo B-164 (Ficep)	40mm dia upto 40mm thick	Marking/ Drilling/ Punching/ Plasma Cutting	1
11	CNC Machine: P-51 (Ficep)	800x 500x 200	Plate Punching	1
12	CNC Plate Punching Machine- Jinan, China	1500x 800mm Thickness 25mm	Plate Punching	1
13	Plate Shearing Machine- Jinan, China	2000mm, Thickness 20mm	Heavy Plate Cutting	1
14	Hydraulic Bending Machine- Jinan, China	140x 140x 12mm angle	Bending	1
15	Shaper	18" and 16"	Heel Grinding, Sampling	2
16	Plano-miller	Bed Size 8'	Heal Cutting	1
17	Band Saw Machine DCA 360 and LMGA 350	360x 340mm, Round, Flat & Angle	Heavy MS Material Cutting	3
18	Radial Drill Machine	40mm dia Two Axis Movement	Drilling	5
19	Hydraulic Press	250 MT	Bending	2
20	Hydraulic Press (Presswell)	400 MT	Bending	2
21	Oil-Fired Furnace with Heating & Pumping LDO Station.	--	Heating	4
22	C-Type Hydraulic Marking Press	100 MT	Marking/ Stamping	5

S/N	Particulars' of Machinery	Capacity	Operation	Qty
23	C-Type Hydraulic Punching Press	70 MT	Bending/ After Bend Hole Punching	2
24	Mechanical Power Press C Type	75 MT	Punching	6
25	Hydraulic Notching Press	50 MT, 110x 110x 8 section mm ISA	Notching/ Coping	4
26	Hydraulic Notching Press	100 MT, 150x 150x 16mm ISA	Notching/ Coping	2
27	Mechanical Section Shearing Machine	90x 90x 8 & 130x 130x 16	Angle Shearing	2
28	EOT Crane Double Girder	SWL 5 MT	Process Material Handling	8
29	EOT Crane Single Girder	SWL 3 MT	Process Material Handling	2
30	Jib Crane	1 MT	Process Material Handling	2
31	Rail Shuttles	5 MT	Process Material Handling	3
32	Air Compressors	10 bars, 7.5 bar	CNC Pneumatic Operation	4
33	Bench Grinders	8" dia	Tool Grinder	3
34	MIG Welding Machine (Make ESAB & Arc Tech)	400 Amps	WPS Approved Welding	11
35	Welding Transformer (Make- Ador Welding)	400 Amps	Welding	2
36	Pug Cutting Sets (Make-Essab)		Heavy Plate Cutting	3
37	Shearing Machine (Energy Mission & Jinaj Ju-Fu)	2000x 16mm	Plate Shearing	2
38	Plate Profile Cutting Machine Ostrich-1300	1650x 16mm	Plate Profile Shearing	2
39	Hydraulic Plate Shearing Machine- Presswell Make	600x 16mm	Plate Shearing and Notching	2
40	Vertical Band Saw Machine- ITL Make	L 200x 200	Heel Cutting, Sample Cutting	1
41	KRISCOOL MINI 2 CHILLER	R-410	Cooling Hydraulic Oil	2
42	CNC Plate P113 Machine- Ficep Make	Plate 800x 1000mm Punching- 16mm, Drilling- 40mm	Plate Punching and Drilling	2
43	CNC Angle Punching Machine: XP 16T4 (Ficep Make)	160x 160x 16	Cutting/ Marking/ Punching	1
44	CNC Angle Punching Machine: XP 12T4 (Ficep Make)	120x 120x 12	Cutting/ Marking/ Punching	2
45	CNC Angle Drilling Machine: RAPID-25T (Ficep Make)	70mm dia upto 250x 250x 40mm	Marking/ Drilling	1
46	Hi Frequency Heated Type Hot Bending Press, Inductotherm India Ltd.	250x 250x 20mm	Heating, Bending	1

MATERIAL YARDS:

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Section Straightening Machine	130x 130 x 12 mm	Straightening of Angles	1 No.
2	EOT Crane	SWL 5 MT	Raw material Handling	2 Nos.
3	Shuttles	4 MT	Raw material transfer/ loading to CNC line	5 Nos.
4	Goliath Crane	Span 52 Meter with SWL 5 MT	Finish material Handling	1 No.
5	Mobile Hydra Cranes (Make ACE\ escort)	10 MT, 12 MT & 14 MT	Material Handling	8 Nos.
6	Godrej Forklift	5 MT	Material Handling	1 No.
7	Packing Machine	32 mm	Finished Goods Bundling	3 Nos.

QUALITY ASSURANCE & CONTROL:

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Universal testing Machine with Electronic extension meter (Make- FIE) and software	60 MT	Tensile testing	2 Nos.
2	Spectrometer –Make Spectromaxx	16 elements analysis	Chemical analysis of Ferrous material & Zinc	2 Nos.
3	Impact Tester		Impact testing	2 Nos.
4	Rockwell Hardness tester		Hardness testing	1 No.
5	Weighing Balance	30 Kgs	Steel Section weight monitoring & measurement	5 Nos.
6	Micrometers Vernier Caliper	As calibrated	Steel Section weight monitoring & measurements	43 Nos.
7	Screw gauges, Measuring tapes	As calibrated	Steel Section weight monitoring & measurements	97 Nos.
8	Elcometer	As suitable	Zinc coating monitoring & measurements	6 Nos.
9	Combination set	As suitable	monitoring & measurements	6 Nos.

ELECTRICALS:

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Diesel Generator Set	320 KVA	Backup power supply	1 No.
2	Transformer- Make Kirloskar	1600kVA	Step-down power distribution	1 No.
3	Electrical Substation & distribution	33 KV/433 Volts	Services & protection	1 No.
4	Factory Office Lighting/ Himast/ Yard lighting	As suitable		9 Nos.
5	Power distribution panels & control centers	As suitable		10 Nos.
6	Auto synchronous panel (Powerica)	Back up of 2 nos DG sets	Emergency power supplies	1 No.

UTILITY & SERVICES:

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Lathe	330 mm	Turning/Machining	1 No.
2	Surface Grinder	12"	Tooling & Grinding	3 Nos.
3	Bosch Hand Grinder	180 mm wheel dia	Grinding	15 Nos.
4	Drilling Machine	Up to 25 mm dia	Drilling	5 Nos.
5	Welding Machine	400 Amps	Welding	1 No.

QUALITY ASSURANCE & CONTROL:

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Fire Pumps	60 HP,1450 rpm, 2250 LPM, 70 meter head	Water pumps	2 Nos.
2	Overhead Tank	65 KL	Water Storage	1 No.
3	Under ground water tank	200 KL	Water Storage	1 No.
4	Water Lift pumps	10KL/hr	Water Lift to tanks	2 Nos.
5	Fire bridge header	150 mm – 3 branches	Water Hydrant	1 No.
6	Hydrant posts with hose	15 meter	Fire extinguisher	9 Nos.
7	Fire buckets & stand	9 liter	Fire extinguisher	56 Nos.
8	CO2 type fire extinguisher	4.5 Kgs.	Fire extinguisher	16 Nos.
9	Mechanical Foam type Extinguishers	50 litre	Fire extinguisher	02 Nos.
10	Mechanical Foam type Extinguishers	9 litre	Fire extinguisher	06 Nos.
11	DCP type Extinguishers	10 Kgs	Fire extinguisher	16 Nos.
12	Foam monitor with stand post	500 liters	Fire extinguisher	1 No.