

Title of Doc. : LIST OF PLANT & MACHINERIES

ISO Clause : 7.5.3

Unit II : TLT DIVISION

Doc. No. : ST/MNT/L/07-02

Rev. No. : R-16

Rev. Date : 01.07.2017



MANUFACTURING CAPACITY FORM : SOURCE (OWNED BY SSPL)

PHOSPHATING LINE

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1.	Acid Proof Pretreatment Service Tanks for Rack galvanizing- 1. Degreasing - Single position tank 2. Pickling Single position tank 3. Rinsing Single position tank 4. Phosphating Single position tank 5. Rinsing Single position tank 6. Neutralizing Single position tank	3.000 M x 2.50 M x 2.50 M For Single position tanks,	1. Decreasing 2. Pickling 3. Rinsing after pickling 4. Phosphating 5. Rinsing 6. Neutralizing	1No. 2Nos. 2Nos. 1No. 1No. 1No.
2.	Heating (Heat exchangers) units for Degreasing, rinsing, phosphating and neutralizing solutions with motorized 3 direction control valves	Acid Degreasing up to 35 Deg. C, Pickling Up to Room temp., Rinsing Room temp, Phosphating up to 65 Deg. C	Heating media for water	4Nos.
3.	Acid Vapor enclosure Tunnel enclosure	Common to Galva plant exhaust	Exhausting acid vapors	1 Unit
4.	Set of thermocouples		Temperatures monitoring and controller operating	1 Set
5.	Heat Economizer with mechanized butterfly valves		Flue Gas heat recovery system	1No.
6.	Flux regeneration Unit with processing tank for oxidation, neutralization and sludge filtering unit			1 Unit
7.	Automated monitoring and correction unit for pH monitoring			1 Set

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S/N	Particulars' of Machinery	Capacity	Operation	Qty
8.	Electric Control board for Phosphating line controls	Step 7 Siemens PLC with profibus communication	Operation & control at pretreatment process	
9.	Electric resistance heaters	36 KW, 18 KW	Lubrication tank and Phosphating tank heater	2 each

MANUFACTURING CAPACITY FORM : SOURCE (OWNED BY SSPL)

Fasteners (Nut, Bolts) Manufacturing Plants

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Nedbase Five DIE, BOLTMAKER, with Pointing & Threading Station, Type- NEB 524 03 (Nedschroef, Belgium)	M12 to M24, Stroke 55 to 105 Pcs/ Min.	Manufacturing of Bolts	1 unit
2	Nedform Five DIE, BOLTMAKER Type- NB518-36, (Nedschroef, Belgium)	M12 to M16, Stroke 90 to 180 Pcs/ Min.	Manufacturing of Nuts as well as Bolts	1 unit
3	High Speed, Five DIE, COLD FORMER with Linear Feed Type- MM 16 18 (Nedschroef, Belgium)	M12 to M24, Stroke 75 to 150 Pcs/ Min.	Manufacturing of Nuts	1 unit
4	High Speed , Five DIE, COLD FORMER with Linear Feed Type- NB 515 (Nedschroef, Belgium)	M6 to M16, Stroke 105 to 210 Pcs/ Min.	Manufacturing of Nuts	1 unit
5	Power Driven Uncoiler AP30- 250 (Techno-Impianti, Italy)	2.000 MT, Wire dia- 12 to 28mm	Coil Feeding to Nut/Bolts Manufacturing Stations	3 Nos.
6	In Line Wire Drawing Machine SKP- 30, (Techno-Impianti, Italy)	--	Wire Drawing	2 Nos.
7	Power Driven Uncoiler AP25- PS (Techno-Impianti, Italy)	2.000 MT, Wire dia- 6 to 16mm	Coil feeding to Nut/Bolts Manufacturing Stations	1 No.
8	In Line Wire Drawing Machine SKP- 18, (Techno-Impianti, Italy)		Wire Drawing	1 No.
9	Hydraulic Push Pointer T- 20, (Techno-Impianti, Italy)		Initial Wire Drawing	2 Nos.
10	Automatic NUT Tapping Machine, TOPCUT 33 D, (Streicher, Germany)	M10 to M33 Nut Tapping, Output 5640 Pcs/ Hr.	Nut Tapping	2 Nos.
11	Automatic NUT Tapping Machine, TOPCUT 16 D, (Streicher, Germany)	M5 to M16 Nut tapping, Output 17520 Pcs/ Hr.	Nut Tapping	2 Nos.
12	Lift tipper and Storage Feeders for Nut Tapping Machine (SKAKKO Vibrations)	Automated Feeder System with 4 Station Loading Points	Feeding Blank Nut to Various Tapping Machines	2 Lines
13	In Line Calibration System (Electronic Controller for NEDSCHROEF Machineries) Schwer + Kopka GmbH	Load Monitoring	Production Load Monitoring and Control Supervisory	4 Nos.

S/N	Particulars' of Machinery	Capacity	Operation	Qty
14	Automatic Machine OMC ADRB M16 (OMC-Wireelombardia, Italy)	M16 Nut, Bolts Assembling	Nut, Bolt & Washer Buttoning	1 No.
15	Automatic Machine OMC ADRB M24 (OMC-Wireelombardia, Italy)	M24 Nut, Bolts Assembling	Nut, Bolt & Washer Buttoning	3 Nos.
16	Vibrating Feeder (SKAKko Vibrations, Denmark)	250 Litres	Nut, Bolt Feeders to Automated Assembling Machines	8 Nos.
17	In Line Bagging and Packing System	Automated in Line for 50 Kgs, Packing	Weighing, Packing, Tagging	4 Line
18	Motorized Manual Buttoning Machine	M16- Nut, Bolts Assembling	Nut, Bolt & Washer Buttoning	4 Nos.
19	Motorized Manual Buttoning Machine	M24 Nut, Bolts Assembling	Nut, Bolt & Washer Buttoning	4 Nos.
20	Pneumatic Motorized Manual Buttoning Machine	M 16/ M24 Nut, Bolts Assembling	Nut, Bolt & Washer Buttoning	5 Nos.
21	Oil Fumes and Mist Extraction Unit, (Span Filter Mist)	Extraction of Oil Fumes from Product and Scraps	Hot Fumes and Oil Extraction	4 Sets

UTILITY & SERVICE EQUIPMENTS: FASTENER PLANT

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Air Compressor Complete with Dryer & Receiver Unit IR 10-7 , Ingersoll Rand	7 bar, 1.06 CuM/ Min,	Pneumatic Functions of Manufacturing Machineries	1 No.
2	Air Compressor Complete with Dryer & Receiver Unit GSD 55 , Atlas Copko	10 bar, 341 CFM, 55KW, Drive controlled Compressor	Pneumatic Functions of Manufacturing Machineries	1 No.
3	Double Girder EOT Crane, Floor Pendent Operated (New Age, Gaziabad)	SWL- 5.00 MT	Material Handling	4 Nos.
4	Fork Lift (Godrej)	SWL- 5.00 MT	Material Handling	2 Nos.
5	Mobile Hydra (ACE)	12 MT	Material Handling	1 No.
6	Surface Grinder (Horizontal) HMT	150mm x 450mm Stroke	Surface Grinder	1 No.
7	Cylindrical Surface Grinder	Dia 200mmx 450mm Length Operational	Die Polishing	1 No.
8	Lapping Machine (Pragati)	Dia 125mm, 50mm stroke	Lapping	1 No.
9	Bench Grinder (Bosch)	200mm, 1 Hp	Tool Grinding	1 No.
10	Hydraulic Press (Lewis machines, Nasik)	300 Ton Capacity	Tool Fixing	1 No.
11	Bull Block, Amco	Wire Drawing upto 32mm dia	Wire Drawing	1 No.
12	Air Compressor Complete with Dryer and Receiver Unit GX 5FF	7 bar, CuM/ Min	Pneumatic Functions of Manufacturing Machineries	3 Nos.

S/N	Particulars' of Machinery	Capacity	Operation	Qty
13	Chop Saw Cutter, Dewalt	12" dia cutter	Sampling	4 Nos.
14	Die Polishing Machine	300mm		1 No.
15	Broaching Machine,			1 No.
16	Suspended Hook Type Weighing Scale, Metler Tolado	3.000 MT Capacity Electronic Display	Raw Material/ FG Good Weighing	1 No.
17	Tap Regrinding Machine, Yuyao Zenda, China	3.000 MT Capacity Electronic Display	Raw Material/ FG Good Weighing	1 No.
18	Pallet Trucks	2 MT	Material Bin Handling	10 Nos.
19	Jib Cranes (360 Degree rotaion) Kone Cranes	2 MT	Tool Assembly Changing of Forging Machines	1 No.
20	Hydraulically Operated Coil Loading Platform	4 MT	Raw Coil Loading Trolley	1 No.

LIST OF PLANT EQUIPMENT & MACHINERY

Unit : FASTENER DIVISION

Doc. No. : L/MNT/07/01

Rev. No. : R-00

Rev. Date : 01.07.2017

**MANUFACTURING CAPACITY FORM : SOURCE (OWNED BY SSPL)****HEAT TREATMENT PLANT**

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Continuous Conveyor Belt Heat Treatment Line (Hardening and Tempering), SIB Bagnolo, Italy	600 Kgs/ Hr	Pneumatic Functions of Manufacturing Machineries	1 Lines
2	6T Gas Fired Bell Type Annealing Furnace, Precon Controls, Chennai	6.0 MT/ Hr	Pneumatic Functions of Manufacturing Machineries	3 Base 2 Bells
3	Propane Storage Moulding with Vaporizer and Loading Stations (Chandra Engineering, Mumbai)	20 MT	Fuel Storage Station and Supply to Heat Treatment Lines	2 Nos.

UTILITY & SERVICE EQUIPMENTS: HEAT TREATMENT PLANT

S/N	Particulars' of Machinery	Capacity	Operation	Qty
1	Air Compressor Complete with Dryer and Receiver Unit Atlas Coco	7 bar, 56 CFM	Pneumatic Functions of Manufacturing Machineries	1 No.
2	Air Compressor Complete with Dryer and Receiver Unit GX5, Atlas Copco	10 bar, 22 CFM, 5 KW	Pneumatic Functions of Manufacturing Machineries	1 No.
3	Double Girder EOT Crane, Floor Pendent Operated (New Age, Gaziabad)	SWL- 5.00 MT	Material Handling	1 No.
4	Double Girder EOT Crane, Floor Pendent Operated (New Age, Gaziabad)	SWL- 12.00 MT, Hook Height at 12 Meter	Furnace Bell Handling	1 No.
5	Diesel Generator 320 KVA, 435 Amps, (Powerica)	320 KVA	Back-up Power Supply	1 No.