

Items/ spares for Finishing Mills

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
1	BSL	GEAR SPINDLE /F8,F9	2	1,28,38,687.08
2	BSL	Gear Spindle, DWN:HSM-7753R1 (F6-F7)	2	67,11,171.00 – 77,17,847.00
3	BSL	GEAR SPINDLE W/OUT PINION SLEEVE,HSM7099 For F10 to F12	2	1,28,22,799.68
4	BSL	SEGMENT,FORGED,DWN:05265100.	4	69,72,475.44
5	BSL	GEAR-BOX F/MANDREL,HSM-9532	1	65,19,713.96
6	BSL	SHAFT,CARDON,DWN:HSM/(M)/6913 –1 no.	6	19,09,523.11
7	BSL	SHAFT,CARDON,DWN:HSM/(M)/6912—1 no.		
8	BSL	CARDON SHAFT,DWN:05161180/HSM-8758—4 nos		
9	BSL	Lifting Translation and discharge door cylinder. CYLINDER,HYD,DOUBLE ACTING,BORE:180MM CYLINDER,HYD,DOUBLE ACTING,BORE : 450MM	4	1,06,33,743.78
10	BSL	BULL GEAR ASSLY & PINION SHAFT ASSLY R3	1	14,46,27,648.09
11	BSL	Recuperator of RHF no.1		8,00,000.00
12	BSL	Recuperator of RHF no.2,3,4		8,00,000.00
13	BSL	SHAFT,U-JOINT,DWN:HSM/M/TB/6977R1	2	50,00,000.00
14	BSL	PINCH ROLL ASSY,TOP,DWN:05057270	2	1,20,00,000.00
15	BSL	MZ23 & MZ 24 coupling	1/2	2,00,00,000.00
16	BSL	MZ25 coupling	1	1,00,00,000.00
17	BSL	Walking beam translation	2	50,00,000.00
18	BSL	RR-2 AWC & HGC Cylinders	1/1	1,20,00,000.00
19	BSL	R5 HGC & AWC Cylinders	1/1	1,20,00,000.00
20	BSL	Pinch Roll , Side Guide & Wrapper Roll Cylinders	2+2+3	3,00,00,000.00
21	BSL	FURNACE DEFLECTOR ROLL ASSY	5	1,37,56,845.95
22	BSL	PUMP,PLUNGER,TRIPLEX,HIGH PRESSURE,SZ:2	1	70,00,000.00
23	BSL	PIV GEAR BOX ASSY NRHB-44S-72 .	1	40,00,000.00
24	BSL	PREMIX LASER GAS (ROFIN MIX)	15 Cu Mts	Rs 1.05 lakh per Cu.Mt
25	BSL	NIBBLER MACHINE,REF:N 500-6	12	Rs 1.75 Lakh each
26	BSL	FILTER PAPER, TYPE-HTP10 for TCM Emulsion (2 items)	10 each	60965 65122
27	BSL	BASE O RING SEAL , FOR BAF/CRM-III	25	81,109.06
28	BSL	Belt for Belt Wrapper of SPM	2	8,39,256.00
29	BSL	Acid pumps for pickling & rinsing section of PLTCM (08 items) & Spares of these pumps	11	1,97,12,000.00
30	BSL	Arial Coil Lifting Tong for BAF Cranes in CRM-III, through IPU	1	1,68,00,000.00
31	BSL	SPRING MOTOR,3.7KW	7	50,000.00
32	BSL	LASER VELOCITY METER MODEL-LASERSPEED 9000-315 1500MM,P/N-85367	1	14,00,000.00
33	BSL	AIR WIPE/QUICK CHANGE WINDOW,P/N-85736, for laserspeed 9000-315	1	1,00,000.00
34	BSL	CABLE GAUGE-DB25/DB 30M,P/N-240211-30M	1	30,000.00
35	BSL	BREAKOUT DB25 POWER SUPPLY,P/N-85329	1	40,000.00
36	BSL	MODULE,O/P,32-POINT,24V DC,CAT:1771-OBN	4	2,00,000.00
37	BSL	CONTROL BOARD, ART: 3ADT313900R1001	1	2,80,000.00
38	BSL	ISOLATION AMPLIFIER MODEL P27000 H1/F1	2	51,000.00
39	BSL	MODULE,BACK UP COMM,CAT:1785-BCM	1	4,04,910.00
40	BSL	MODULE,EXPANSION,CAT:1785-BEM	1	4,04,910.00

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41	BSP	ROLL CHOCK,TOP,THRUST SIDE, P/No. 10003013-A	2	3,90,000.00
42	BSP	ROLL CHOCK,LOWER,THRUST SIDE, P /No. 10003010-A	2	4,10,000.00
43	BSP	ROLL CHOCK DRIVE SIDE, P/No. 10003012-A	2	3,90,000.00
44	BSP	ROLL CHOCK LOWER SIDE, P/No. 10003011-A	2	4,10,000.00
45	BSP	AXIAL FIXING COVER, UPPER, P/No.10003246-A	2	1,24,500.00
46	BSP	AXIAL FIXING COVER,LOWER, P/ No. 160312-B, P/No.10003268-A	2	1,28,500.00
47	BSP	GEAR SHAFT, P/NO. 157769 A	10	70,000.00
48	BSP	WORM WHEEL, P/NO.258315 A	10	1,65,000.00
49	BSP	WORM SCREW, P/NO. 258316-1	10	40,500.00
50	BSP	SPLINED SLEAVE, P/NO. 368076	10	35,000.00
51	BSP	DRIVE SHAFT, P/NO. 366455	10	18,500.00
52	BSP	THRUST BEARING HOUSING, P/NO.260575 A	10	1,70,000.00
53	BSP	LACKETING BEARING HOUSINGE, P/NO. 160313-A	10	1,20,000.00
54	BSP	PLUG TOP COVER, P/NO. 10003082 A	10	8,000.00
55	BSP	COVER, P/NO.366457-A	10	4,600.00
56	BSP	COVER, P/NO.368044-A	10	7,500.00
57	BSP	SPLINED HUB, P/NO. 368048-A	10	65,000.00
58	BSP	SPLINED HUB, P/NO. 368047-A	10	55,000.00
59	BSP	POWER DIODE ,VRRM:200V,VRSM:300V,	200	8,950.00
60	BSP	ROLL CASSETTE ASSY,DWN:AN-145-07	1.333333333	1,09,56,664.86
61	BSP	ROLL CASSETTE ASSY,DWN:AN-145-08	1	97,61,392.33
62	BSP	SHAFT,ROLL,RH, SKET DWN: AN 145-0700-002	2	14,32,812.84
63	BSP	SHAFT,ROLL, LH, SKET DWN:AN 145-0700-003	3	14,32,812.84
64	BSP	SHAFT,ROLL, LH, SKET DWN:AN 145-0800-013	2.5	13,16,780.09
65	BSP	SHAFT,ROLL, RH, SKET DWN:AN 145-0800-014	2.5	13,16,780.09
66	BSP	SLEEVE, ADJ,TOP, SKET DWN: AN-145-0707	3	16,65,646.60
67	BSP	RING,ROLLING,UNGROOVED,DWN:WRO(B)-1/2007	48	1,18,436.51
68	BSP	RING,ROLLING,PN:5629.36.9.01-001 A	72	1,06,676.65
69	BSP	UNGROOVED ROLLING RING (T.C)	72	52,414.16
70	BSP	RING,ROLLING,DWN:WRO(R)-101/98 R1	140	60,478.10
71	BSP	VALVE,FLANGED,CS,500MM,1.2KG/CM2	5	1,90,000.00
72	BSP	VALVE ASSY,DWN:BS-DD-BF-12-160	1	19,60,620.00
73	BSP	TWIN ANGLE LARGE BALL WITH HOPPER	1	1,37,14,035.03
74	BSP	HOT BLAST VALVE DN 1400	1	19,17,760.10
75	BSP	LARGE BELL ROD WITH DOUBLE NUT	1	18,66,150.00
76	BSP	BELT,CONVY,4X2MM,800MM	132.48	14,600.77
77	BSP	JOINT,EXPANSION,DWN:BF-2008-066	24	1,95,000.00
78	BSP	COOLER,TUYERE,DWN:BF-2007-018	7	6,26,000.00
79	BSP	MODIFIED TUYERE NOZZLE	22.33333333	1,93,806.36
80	BSP	GAS SAFETY SHUT OFF VALVE DIA 1300 MM	3	8,41,134.84
81	BSP	VALVE,GATE,1200MM,DWN:SLN6/CO-17-157	2	12,24,144.00
82	BSP	NICKEL BRIQUETTE,NI:95% MIN.,10-50MM	20	9,74,741.63
83	BSP	SPL WIRE JOIN MS MIG-T TY-1 DIA 1.2MM	12890	100.10
84	BSP	SPL WIRE JOIN MS MIG-T TY-1 DIA 1.6MM	2600	102.12
85	BSP	HOSE,EN-853 2ST/2SN,6MM	1200	94.67
86	BSP	HOSE,EN-853 2ST/2SN,8MM	5800	96.81

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87	BSP	HOSE,EN-853 2ST/2SN,10MM	1090	124.75
88	BSP	HOSE,EN-853 2ST/2SN,12MM	350	137.24
89	BSP	HOSE,EN-853 2ST/2SN,16MM	925	160.68
90	BSP	HOSE,EN-853 2ST/2SN,19MM	900	221.11
91	BSP	HOSE,EN-853 2ST/2SN,25MM	350	281.33
92	BSP	HOSE,EN-853 2ST/2SN,31MM	350	407.63
93	BSP	HOSE,EN-853 2ST/2SN,38MM	90	524.30
94	BSP	HOSE,EN-853 1ST/1SN,12MM	550	109.78
95	BSP	HOSE,EN-853 1ST/1SN,19MM	1350	173.05
96	BSP	HOSE,EN-853 1ST/1SN,25MM	1200	227.04
97	BSP	HOSE,EN-853 1ST/1SN,31MM	550	311.38
98	BSP	HOSE,EN-853 1ST/1SN,38MM	550	349.30
99	BSP	HOSE,EN-853 1ST/1SN,50MM	150	456.09
100	BSP	HOSE,4SP,RBR,3/4IN	110	776.59
101	BSP	HOSE,4SH,RBR,1-1/2IN	20	1,629.75
102	BSP	HOSE,4SP,RBR,1/2IN	110	559.65
103	BSP	HOSE,4SP,RBR,5/8IN	30	657.03
104	BSP	HOSE,4SP,RBR,1IN	20	999.38
105	BSP	HOSE,4SP,RBR,1-1/4IN	20	1,550.12
106	BSP	HOSE,4SH,RBR,1IN	20	1,013.73
107	BSP	HOSE,4SH,RBR,1-1/4IN	20	1,164.40
108	BSP	HOSE,RBR,3/4IN	20	826.15
109	BSP	HOSE,RBR,1-1/2IN	20	2,214.00
110	BSP	GAUGE,MOISTURE MEASUREMENT,ON LINE	1	7,25,267.82
111	BSP	CO GAS DETECTOR,EXPLOSION PROOF ON LINE	26.66666667	40,350.00
112	BSP	RADAR TRAFFIC SPEED SIGN	4	3,52,000.00
113	BSP	VALVE,B/FLY,WAFER,CI,250MM,CL150	2	5,37,261.94
114	BSP	ACTUATOR,AIR OPERATED,MAKE:KSB-AMRI	1	17,76,176.00
115	BSP	PARTIAL DISCHARGE MEASURING KIT	2	7,65,000.00
116	BSP	THERMAL IMAGING CAMERA,0 TO +1000 DEG C	2	6,04,769.07
117	BSP	CAMERA,THER IMG,RANGE:-20 TO +1200 DEG C	1.5	5,39,720.00
118	BSP	BLADE,DOUBLE SIDE,DIA:9IN	3	81,137.70
119	BSP	BLADE,DOUBLE SIDE,DIA:6IN	5	46,577.43
120	BSP	GEAR CUTTER HEAD,SPIRAL BEVEL,DOUBLESIDE	1	2,76,306.76
121	BSP	GEAR CUTTER HEAD,NOMINAL DIA:6IN	1	1,90,783.24
122	BSP	LENS,PC,FOLDABLE,HYDROPHYLIC,SQUARE EDGE	2057	2,772.00
123	BSP	DENTAL AUTOCLAVE B CLASS WITH DISTILLER,	2	3,64,240.00
124	BSP	VIDEO NYSTAGMOGRAPHY SYSTEM (VNG)	1	10,02,400.00
125	BSP	NUT, MILL SCREW, PN: 247873 A	10	33,501.41
126	BSP	NUT, MILL SCREW, PN: 247873 B	10	33,501.41
127	BSP	NUT, PN: 355704001	10	11,943.98
128	BSP	NUT, PN: 355704002	10	11,943.98
129	BSP	PIN, LOCKING, PN: 247876A	10	791.93
130	BSP	PLUNGER WITH SPRING, PN: 450741 A	200	613.75
131	BSP	RING, SEAL, PN: 241231 A	10	8,315.25
132	BSP	SHIM, PN: 355736 A F/MILL SCREW.	50	1,682.84

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133	BSP	WASHER, ADJUSTING, PN: 437908-1	20	7,738.10
134	BSP	WASHER, SPHERICAL, PN: 340678001	50	4,454.60
135	BSP	WASHER, SUPPORTING, PN: 247924 A	10	5,246.53
136	BSP	SEAL, PN: 241888-A	10	35,636.79
137	BSP	PIN, PN: 370395-A	70	356.37
138	BSP	CUP SPRING, 25/12.2X0.9, PN: 2195201283	5000	9.95
139	BSP	CUP SPRING, 25/12.2 X 1.5, PN: 2195201286	10000	43.55
140	BSP	CUP SPRING,TYPE B18/9X0.7,ART.2195201254	10000	43.55
141	BSP	LOCKING PIN, PN: 355713-A	50	538.51
142	BSP	MOTOR,HYDRAULIC,REF:OMS 125 151F0615	2	57,885.89
143	BSP	MOTOR,HYDRAULIC,REF:OMS 315 151F0577	2	63,108.01
144	BSP	AIR FILTER PANEL, DWN:OPII-2017-001	66	12,529.00
145	BSP	LASER LINE MARKING SYSTEM,RED	12	80,000.00
146	BSP	NOZZLE,PAINT,DWN:PL-94-030	350	9,600.00
147	BSP	CHOCK ASY-DRIVE SIDE FOR BOT.BACKUP ROLL	2	1,35,99,350.00
148	BSP	CHOCK ASY-CHANGINGSIDE F/BOT.BACKUP ROLL	1	1,31,93,800.00
149	BSP	CHOCK ASY-DRIVE SIDE FOR TOP BACKUP ROLL	1	1,40,03,800.00
150	BSP	CHOCK ASY-CHANGINGSIDE F/TOP BACKUP ROLL	1	1,37,64,150.00
151	BSP	SCREW, DOWN NUT ASSY,DWN:PMM-2135 R3	2	93,28,160.00
152	BSP	SCREW NUT ASSY,DWN:PMM-2134 R2	1	93,28,160.00
153	BSP	SPINDLE HEAD, DWN: PMM-2712R2	1	49,95,000.00
154	BSP	ROLLER,DWN:PMM-1398 R3	1	32,58,900.00
155	BSP	ROLLER,DWN:PMM-1399 R3	1	31,03,700.00
156	BSP	ROLLER,DWN:PMM-1400 R3	4	23,39,700.00
157	BSP	SLIDING SHOE,DWN.:PMM-5585	1	10,00,865.00
158	BSP	SLIDING SHOE,DWN.:PMM-5586	1	10,00,865.00
159	BSP	PAINT, WHITE, SPECIAL QUALITY	1060	1,310.00
160	BSP	THINNER, SPECIAL QUALITY	6240	441.00
161	BSP	KNIFE,BOTTOM,700X240X80MM,PMM-404-1 R4	12	94,862.00
162	BSP	KNIFE, TOP,800X240X80MM,PMM-404 R-5	15	1,17,238.00
163	BSP	BOTTOM KNIFE, DWN:PMM-362-1 R1	12	1,95,444.60
164	BSP	TOP KINFE (R.H. & L.H.),DWN:PMM-5913 R1	10	2,54,710.98
165	BSP	KINFE,BOTTOM(L.H.&R.H.),DWN:PMM-5916 R1	8	1,92,867.64
166	BSP	TOP KINFE(L.H. & R.H.),DRGNO.PMM-5915R1	10	29,061.14
167	BSP	BOTTOM KINFE(L & R SIDE), DWN:PMM-5914R1	7.5	24,527.79
168	BSP	KNIFE, TOP, DWN:PMM-362 R1	4	1,68,966.19
169	BSP	KNIFE,BOTTOM LONGITUDINAL,DWN:PMM-554 R3	10	1,19,850.00
170	BSP	KNIFE, TOP RIGHT HAND,DWN:PMM-557 R3	6	2,06,800.00
171	BSP	POWER DIODE ,VRRM:200V,VRSM:300V,	120	8,950.00
172	BSP	VALVE,FLANGED,CSTL,1000MM,1KG/CM2	3	4,92,346.00
173	BSP	VALVE, 3/2WAY,DN10,WORKING PRESS. 250BAR	3	1,81,932.00
174	BSP	BLADE,SAW,CARBIDE TIP,DWN:RSM-90.1/71 R3	40	21,347.00
175	BSP	BLADE,SAW,CARBIDE TIP,DWN:RSM-90.1/71 R3	130	19,640.00
176	BSP	SCREW FOR POLE SHOE,PN:10499638,REMY INT	50	66.00
177	BSP	SUPPORT,PN:1979413,REMY INT.	10	2,301.00
178	BSP	WASHER,PN:1953237,REMY INT.	10	29.00

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179	BSP	STATOR ASSY,PN:10485900,REMY INT.	2	11,491.20
180	BSP	ARMATURE,PN:1945840,REMY INT.	12.5	9,450.00
181	BSP	ARMATURE,PN:1988435,REMY INT.	3	6,790.00
182	BSP	BEARING DE,PN:10472935,REMY INT.	2	934.00
183	BSP	BRUSH PLATE ASSY,PN:1984974,REMY INT.	5	1,789.00
184	BSP	BRUSH PLATE ASSY,PN:1988439,DELCO REMY	2	1,237.00
185	BSP	CARBON BRUSH,PN:1852888,REMY INT.	39	223.00
186	BSP	CARBON BRUSH,PN:1852894,REMY INT.	10	224.98
187	BSP	BUSH,CE,PN:1894635,REMY INT.	10	45.00
188	BSP	BUSHING,CE,PN:1894638,REMY INT.	10	89.82
189	BSP	COIL,FIELD,PN:10493231,REMY INT.	10	5,828.00
190	BSP	COIL,FIELD,PN:1945853,REMY INT.	12.5	2,815.00
191	BSP	COIL,FIELD,PN:1988442,REMY INT.	5	3,250.00
192	BSP	CONTACT ASSY,PN:1977264,REMY INT.	10	696.00
193	BSP	DRIVE ASSY,PN:830620,REMY INT.	11	2,351.00
194	BSP	PACKING,INSULATOR,PN:1851632,REMY INT.	15	380.00
195	BSP	INSULATOR,PN:1914873,REMY INT.	10	15.00
196	BSP	MOTOR,STARTER,PN:10478998,REMY INT.	2	28,917.00
197	BSP	REGULATOR ASSY - 24V,PN:1116405,REIL	4	3,053.64
198	BSP	OIL SEAL,PN:1918047,REMY INT.	5	75.00
199	BSP	STARTER MOTOR ASSY,PN:10479339,REMY INT.	6.5	31,500.00
200	BSP	STUD,PN:1906049,REMY INT.	10	510.00
201	BSP	STUD,PN:1953244,REMY INT.	10	501.00
202	BSP	SWITCH,SOLENOID,PN:1115717,REMY INT.	8	6,470.00
203	BSP	DRIVE ASSEMBLY,PN:1893560,REMY INT.	2	2,351.00
204	BSP	CHAIN, TRACK, 2670559794, ATLAS COPCO	6	2,06,065.00
205	BSP	LEAD CE TERMINAL ASSLY,PN:95201104X,REIL	3	1,233.18
206	BSP	INSULATION,95701010X,REIL ELECT	10	422.28
207	BSP	BRUSH PLATE ASSLY PN:95201097X,REIL ELEC	5	1,998.18
208	BSP	CRM,O&N,STEEL,O2-35PPM,N2-88PPM,1G	12	10,713.00
209	BSP	CRM,O&N,STEEL, O2-8PPM, N2-91PPM,0.5G	6	9,794.00
210	BSP	CRM, O&N,STEEL, O2-100PPM, N2-102PPM, 1G	6	10,713.00
211	BSP	GRAPHITE CRUCIBLE, AR1533	32000	81.00
212	BSP	NATURAL GRAPHITE FLAKES (96%).	120	71,355.82
213	BSP	POWDER,NATURAL GRAPHITE,VM:2.5% MAX	107.6666667	56,225.00
214	BSP	INSERT,CERAMIC,38MM,LNJ6688	250	2,147.73
215	BSP	INSERT,M.C,TYPE: RCGX251200	450	1,519.00
216	BSP	INSERT,TUNGSTEN CARBIDE, LNMX501432,	95	1,800.00
217	BSP	INSERT,GROOVING,TUNGUSTEN CARBIDE,OF	140.5	2,700.00
218	BSP	TC INSERT LNMX 501432 P-15 GRADE WITH	101	2,880.00
219	BSP	INSERT,TUNGUSTEN CARBIDE LNMX 501432	147	2,250.00
220	BSP	TUNGSTEN CARBIDE GROOVING INSERT OF	175	2,880.00
221	BSP	INSERT,M.C,TYPE: RCGX151000,IS 9897:2013	452.5	756.00
222	BSP	INSERT,M.C,TYPE:RCGX120700,IS 9897:2013	287.5	675.00
223	BSP	INSERT,M.C,TYPE:CNGN190716	350	685.13
224	BSP	INSERT,M.C,TYPE:RCGX060600	112.5	572.00

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225	BSP	INSERT,M.C.TYPE:RCGX090700,IS 9897:2013,	137.5	670.00
226	BSP	PROBE,TEMP OXYGEN W/TYPE:S THERMOCOUPLE	5625	478.00
227	BSP	FLANGE,DWN:CCS/E/VAD/01 R0	3	24,200.00
228	BSP	CONTACT HEAD,COPPER,DWN:CCS/EM/VAD/03 R0	3	2,75,000.00
229	BSP	NUT,COPPER,DWN:CCS/E/VAD/02 R0	3	9,500.00
230	BSP	CABLE,HIGH CURRENT,DWN :TPIE/SPR/13-38	6	6,16,620.26
231	BSP	BUS TUBE ASSLY,CENTRAL ELECT,CCS-13-032	1	12,65,000.00
232	BSP	BUS TUBE ASSEMBLY, DWN: CCS-16-092 REV-0	1	12,65,000.00
233	BSP	BUS TUBE ASSEMBLY, DNW: CCS-16-091 REV-0	1	12,65,000.00
234	BSP	BUS TUBE ASSEMBLY, DNW: CCS-16-078	1	14,08,000.00
235	BSP	BUS TUBE ASSEMBLY ,DRG- CCS-16-079	1	14,08,000.00
236	BSP	BUS TUBE ASSEMBLY ,DRG NO CCS-13-031	1	8,41,000.00
237	BSP	BUS TUBE ASSEMBLY,DRG NO- CCS-13-030	1	8,41,000.00
238	BSP	CONTACT PLATE FOR LF2,TPIE/SKETCH/15-51	4	4,63,374.26
239	BSP	CENTRAL PIPE F/LF2,DWN:TPIE/SKETCH/15-54	1	10,60,000.00
240	BSP	ELEC,457MM,1700-1875MM	402.5	81,000.00
241	BSP	MEMBRANE COMPRESSOR FOR PAS	1	28,50,000.00
242	BSP	FEEDER, DOSE,4-OUTLET, 3CC, 400 KGF/SQCM	25	10,929.00
243	BSP	FEEDER, DOSE, 6-OUTLET, 3CC,400 KGF/SQCM	20	14,367.00
244	BSP	FEEDER, DOSE, 8-OUTLET, 3CC, 400KGF/SQCM	40	18,058.00
245	BSP	HYD. TORQUE WRENCH,3000-10000NM	2	8,47,560.00
246	BSP	NOZZLE,CUTTING,AUTO MIXING	233.3333333	3,759.01
247	BSP	TORCH,CUTTING F/GAS CUTTING	15	34,483.75
248	BSP	RING, SUPPORT, CCS-18-026	30	13,000.00
249	BSP	PLATE,BLANKING,CCS-18-056	50	3,000.00
250	BSP	PNEU CYLINDER(AIR BELLOW),330MM STROKE	8	40,000.00
251	BSP	BARREL COUPLING IN PILOT BORE	2	6,56,658.00
252	BSP	ROTATING UNION,MODEL:2425-001-177-180	70	22,052.00
253	BSP	TORCH,CUTTING,DWN:554/10.00 REV.2,POS.22	5	64,331.85
254	BSP	BURNER,CO-GAS/OXYGEN,DWN:A-06-0121	1	85,89,206.00
255	BSP	CASTING POWDER FOR SLAB CASTER	725.4	41,856.60
256	BSP	TIPS,THERMOCOUPLE,EXPAND,L:1800+1/-6MM	38096.6	73.11
257	BSP	TIPS,THERMOCOUPLE,EXPAND,L:1200+1/-6MM	67041.875	49.52
258	BSP	CASTING POWDER GRANULES	40	41,200.00
259	BSP	CASTING POWDER FOR BLOOM CASTER,	432	43,394.07
260	BSP	STARTER,CASTING POWDER ,SLAB CASTER	14	1,14,792.74
261	BSP	CASTING POWDER	202.25	82,927.65
262	BSP	LANCE TIP,FIVE HOLE	40	1,40,258.79
263	BSP	DAMPER ASY,CONV-17-004 FOR ID FAN OF GCP	1	18,29,510.00
264	BSP	COUPLING,BARREL,CONV-17-018 FOR H.R.DRUM	2	3,07,755.73
265	BSP	ASSY,COPPER PLATE; DWN: CCS-13-329	4	9,84,348.00
266	BSP	ASSY,COPPER PLATE; DWN: CCS-13-330	4	9,84,348.00
267	BSP	ASSY,COPPER PLATE;TYPE-1; DWN:CCS-13-328	6	1,24,706.00
268	BSP	ASSY,COPPER PLATE;TYPE-2; DWN:CCS-13-327	6	1,24,706.00
269	BSP	PLATE,CR,CU,1005X2140X85MM	24570	741.00
270	BSP	PLATE,CR,CU,1005X275X85MM	2730	952.00

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
271	BSP	PLATE,CU,1005X1665X85MM	21658	741.00
272	BSP	TUBE,COPPER,MOULD, 300X340, CCS-13-193R3	30	3,84,767.00
273	BSP	MOULD TUBE, DRG.NO. SMS3-18-110	30.66666667	2,43,750.40
274	BSP	PLATE,COPPER,FIXED SIDE,ASLY,SMS3-18-134	19.5	1,46,861.20
275	BSP	PLATE,COPPER,LOOSE SIDE,ASLY,SMS3-18-138	19.5	1,44,285.70
276	BSP	PLATE,COPPER,LEFT,SIDE ASLY,SMS3-18-136	19.5	1,48,541.40
277	BSP	PLATE,COPPER,RIGHT,SIDE ASLY,SMS3-18-140	19.5	1,48,552.40
278	BSP	MOULD TUBE, DRG.NO. SMS3-18-109	22.66666667	1,99,512.04
279	BSP	ELEC,450MM,1800MM,45-55KA	150	2,02,299.22
280	BSP	LANCE TIP,DWN: SMS3-19-016	30	1,74,860.51
281	BSP	FABRIC(586 X 7410),DWN: SP3-16-060	12	14,450.00
282	BSP	FABRIC (586 X 5680) , DWN: SP3-16-061	32	11,000.00
283	BSP	FABRIC (827 X 19035) ,DWN : SP3-16-059	2	51,950.00
284	BSP	BELT,CONVY,1000MM,DWN:SP3-16-029	64.08	27,360.00
285	BSP	BOTTOM BEATER, PN:D-401350760,EIRICH	12	53,754.00
286	BSP	TOOL SUPORT,PN:D-291352723-99E001,EIRICH	30	29,554.00
287	BSP	TOOL SUPORT,PN:D-291350731-99E001,EIRICH	2	51,292.00
288	BSP	BOTTOM BEATER, PN:D-403350250, EIRICH	18	55,557.00
289	BSP	BELT,CONVY,1000 MM,DWN:SP3-16-028	138.24	22,091.00
290	BSP	CUTTING TOOL,F/CLK SCRAPPER,SP3-14-075R1	8	34,441.03
291	BSP	CUTTING TOOL,F/ANTI-CLK SCR,SP3-14-076R1	24	32,315.28
292	BSP	STRAIGHT BLADE (BIG), DWN: SP3-17-035	78	40,332.57
293	BSP	STRAIGHT BLADE,DWN:SP3-17-034	120	37,099.22
294	BSP	STRAIGHT BLADE, DWN: SP3-17-036	32	37,091.04
295	BSP	PLATE,BOTTOM,(V-1),DWN: SP3-14-074 R1	16	81,561.44
296	BSP	RESISTOR, PN: 810016	1	12,813.00
297	BSP	RESISTOR, PN: 810014	1	17,655.00
298	BSP	RESISTOR, PN: 828729	4	7,512.00
299	BSP	RELAY, PN: 828698	10	38,625.00
300	BSP	SHAFT, DRIVE, PN: 617666	1	1,95,532.00
301	BSP	MUFFLER, AIR LINE, PN: 805473	6	587.00
302	BSP	SPROCKET, ROLLER CHAIN, PN: 139233	1	7,44,795.00
303	BSP	COIL, OPERATING, 115V (L), PN:17487	2	57,105.00
304	BSP	OPERATING COIL230V (D), PN: 18474-002	2	45,707.00
305	BSP	MOVABLE & STATIONERY CONTACTS L,PN:17279	2	9,325.00
306	BSP	CONTACT SPRINGS L, PN: 17556	2	4,605.00
307	BSP	CONTACT SPRINGS D, PN: 19272	2	4,030.00
308	BSP	MOVABLE CONTACT D, PN: 5738	2	6,793.00
309	BSP	CONTACT, STATIONARY D, PN: 2317	2	5,757.00
310	BSP	COMPLETE AUX. WITH NO & NCD, PN: 17813	2	81,513.00
311	BSP	PINION, 16TEETH, PN: 506516	1	1,90,615.00
312	BSP	CLUTCH ASSEMBLY, PN: 302643	1	13,77,234.00
313	BSP	BEARING, BALL, PN: 800090	2	5,380.00
314	BSP	BRAKE BAND ASSEMBLY, PN: 237457	2	1,56,199.00
315	BSP	THRUST SCREW, PN : 238704	2.333333333	3,60,621.00
316	BSP	BRG,RLR,810493	12	14,991.00

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
317	BSP	PIN, STRAIGHT, 402791	4	1,499.00
318	BSP	ROLLER CHAIN,810939,AMERICAN HOIST&DERIK	2	1,45,423.00
319	BSP	PLATE,DRIVING,PN:841294	2	1,33,148.00
320	BSP	KIT,REPAIR,PN:P53460-0001	15	17,482.00
321	BSP	VALVE,AIR,814316,AMERICAN HOIST&DERRICK	8	1,292.00
322	BSP	VALVE,PN:810817,AMERICAN HOIST&DERRICK	8	8,054.00
323	BSP	FREQUENCY CONVERTER M.G.SET,20 KVA	2	6,28,300.00
324	BSP	SPINDLE,DWN:WRO(R) - 3/2005	20	5,924.00
325	BSP	PIN,CLAMPING,DWN:WRO (O) - 6/2005	20	245.14
326	BSP	SPINDLE,DWN:WRO (O) - 4/2005	18	6,353.00
327	BSP	BEARING,COUNTER,REBAR/TMT,WRO (R)-1/2005	2	11,376.00
328	BSP	SPINDLE,DWN:WRO (O) - 5/2005	18	6,353.00
329	BSP	BEARING,COUNTER F/REBAR/TMT	2	12,034.00
330	BSP	PIN,CLAMPING F/NOTCH MILLING MACHINE	20	245.14
331	BSP	PIN,CLAMPING,DWN:WRO (R) - 6/2005	20	245.14
332	BSP	INSERT,DIAMOND,PCD,D:2.5MM,L:5.3MM	40	5,368.00
333	BSP	INSERT,DIAMOND,PCD,D:3.0MM,L:6.8MM	40	6,567.00
334	BSP	INSERT,DIAMOND,PCD,D:4MM,L:8.1MM	40	9,232.00
335	BSP	ADVANCED USG MACHINE WITH ELASTOGRAPHY	1	48,00,000.00
336	BSP	HYD. OIL,3-000-000-25392,RHI MAGNESITA	832	288.40
337	BSP	HIGH PR. FILTER,PN:20740043,TML TECHNIK	2	4,811.20
338	BSP	AIR FILTER ELEME,PN:20640120,TML TECHNIK	2	5,152.00
339	BSP	SAFETY ELEMENT,PN:20610022-8,TML TECHNIK	2	11,573.60
340	BSP	STRAINER,PN:20640098,TML TECHNIK	2	2,290.00
341	BSP	STRAINER,PN:20640062,TML TECHNIK	2	1,472.00
342	BSP	FILTER ELEMENT,PN:20650071-2,TML TECHNIK	2	9,728.00
343	BSP	FILTER ELEMENT,PN:20650101-1,TML TECHNIK	2	11,266.40
344	BSP	AIR FILTER ELEMENT,20640081,TML TECHNIK	5.5	9,196.83
345	BSP	SAFETY ELEMENT,20640082,TML TECHNIK	5.5	8,519.49
346	BSP	STRAINER,PN:20640060,TML TECHNIK	5	7,507.20
347	BSP	BREATHER FILTER,PN:20650035,TML TECHNIK	5	3,728.80
348	BSP	RETURN FILTER ,PN:20740082-1,TML TECHNIK	3	9,862.40
349	BSP	FILTER ,PN:20300062-3,TML TECHNIK	3	3,509.86
350	BSP	DENTAL X-RAY MACHINE WITH RVG	2	3,54,000.00
351	BSP	BATT,RC,20311005,TML TECHNIK,PN:20311005	4	23,576.00
352	BSP	BATT,RC,20320086-3,TML TECHNIK	4	16,320.80
353	BSP	OIL FILTER,1-000-000-74750,RHI MAGNESITA	2	14,000.00
354	BSP	DIESEL FILTER,1-000-000-74758,RHI	2	17,500.00
355	BSP	AIR FILTER ELEMENT,1-000-000-74756,RHI	2	9,000.00
356	BSP	AIR FILTER ELEMENT,1-000-000-74755,RHI	2	16,000.00
357	BSP	FILTER ELEMENT,1-000-000-74759,RHI	2	25,000.00
358	BSP	FILTER ELEMENT,1-000-000-74581,RHI	2	50,000.00
359	BSP	BATT,RC,1-000-000-77869,RHI MAGNESITA	4	25,000.00
360	BSP	CELL COUNTER,AUTOMATED,3PART DIFF.	2	4,15,000.00
361	BSP	AUTOANALYSER,BENCHTOP,BIOCHEMISTRY	1	7,56,000.00
362	BSP	SET OF ITEMS FOR OXYGEN VALVE STAND	1	24,50,000.00

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
363	BSP	FULLY AUTOMATED I D-NAT TEST SYSTEM	1	2,95,00,000.00
364	BSP	LAB ANCILLARY ITEMS,ID-NAT,CONSISTING	1	5,90,000.00
365	BSP	VENTILATOR,NEONATAL	1	17,53,000.00
366	BSP	SETCOMPRISINGOF,THERMO FOR CONTAINERLABS	1	20,98,778.00
367	BSP	UNIVERSAL TEST. M/C,1000KN,FRONT LOADING	1	17,85,000.00
368	BSP	SYRINGE INFUSION PUMP,	80	42,537.50
369	BSP	INCLINOMETER BATTERY PV7436,PROCESS MAT	3	84,787.59
370	BSP	BATTERY PV3194 ,PROCESS MATRIX	2	15,531.32
371	BSP	TRACK TYPE LOADER,CAT 953K,CATERPILLAR	1	2,12,43,000.00
372	BSP	REP. OF AUTOMATION SYSTEM OF BF-5 STOVE	1	7,29,49,091.00
373	BSP	DENTAL CHAIR & UNIT WITH AIR COMPRESSOR,	2	14,50,000.00
374	BSP	CO GAS OPTICAL IMAGING CAMERA, IR BASED	1	94,57,000.00
375	BSP	MULTI PARA PATIENT MONITOR	12	1,20,960.00
376	BSP	APEX 2 PERSONAL AIR SAMPLER	4	2,19,890.00
377	BSP	ULTRASOUND COLOUR DOPPLER MACHINE	1	32,14,000.00
378	BSP	MECHANICAL VENTILATOR DICU,	5	11,76,000.00
379	BSP	AUTOANALYZER,FULLY AUTOMATED,BIOCHEMISTR	1	1,30,00,000.00
380	BSP	GRINDING MACHINE,HIGH FREQ	20	78,510.64
381	BSP	FREQUENCY CONVERTER M.G.SET,20 KVA	2	6,28,300.00
382	BSP	NOZZLE,PAINT,DWN:PL-94-030	150	9,600.00
383	BSP	SCREW, DOWN NUT ASSY,DWN:PMM-2135 R3	2	1,00,00,000.00
384	BSP	SCREW NUT ASSY,DWN:PMM-2134 R2	1	50,00,000.00
385	BSP	ROLLER,DWN:PMM-1398 R3	1	32,58,900.00
386	BSP	ROLLER,DWN:PMM-1399 R3	1	31,03,700.00
387	BSP	ROLLER,DWN:PMM-1400 R3	4	23,39,700.00
388	BSP	SLIDING SHOE,DWN.:PMM-5585	1	10,00,865.00
389	BSP	SLIDING SHOE,DWN.:PMM-5586	1	10,00,865.00
390	BSP	PAINT, WHITE, SPECIAL QUALITY	2400	1,310.00
391	BSP	THINNER, SPECIAL QUALITY	14400	441.00
392	BSP	KNIFE,BOTTOM,700X240X80MM,PMM-404-1 R4	15	94,862.00
393	BSP	KNIFE,TOP,800X240X80MM,PMM-404 R-5	15	1,17,238.00
394	BSP	BOTTOM KNIFE, DWN:PMM-362-1 R1	12	1,95,444.60
395	BSP	TOP KINFE (R.H. & L.H.),DWN:PMM-5913 R1	10	2,54,710.98
396	BSP	KINFE,BOTTOM(L.H.&R.H.),DWN:PMM-5916 R1	8	1,92,867.64
397	BSP	TOP KINFE(L.H. & R.H.) ,DRGNO.PMM-5915R1	10	29,061.14
398	BSP	BOTTOM KINFE(L & R SIDE), DWN:PMM-5914R1	7.5	24,527.79
399	BSP	KNIFE,TOP, DWN:PMM-362 R1	4	1,68,966.19
400	BSP	KNIFE,BOTTOM LONGITUDINAL,DWN:PMM-554 R3	10	1,19,850.00
401	BSP	KNIFE,TOP RIGHT HAND,DWN:PMM-557 R3	10	2,06,800.00
402	BSP	WORK ROLL, 1120 X 3600 MM	16	11,56,00,000.00
403	BSP	ROLL,BACKUP,MONOLITHIC,DWN:PL-2004-024R2	2	11,10,00,000.00
404	BSP	ROLL,VERTICAL,PMM-3831R4,F/VERTICALSTAND	2	1,26,00,000.00
405	BSP	HAGC FORCE CULINDER, 8.504157.C, DANIELI	2	1,25,00,000.00
406	BSP	KNIFE,TOP LEFT HAND,DWN:PMM-556 R3	10	2,20,000.00
407	BSP	BLADE,UPPER,3700X200X100MM,DWN:PMM-562R2	5	5,32,617.97
408	BSP	BLADE,LOWER,DWN:PMM-561R2	5	4,50,000.00

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
409	BSP	WORKING ROLL ASSLY ASPER DRGNO.PMM-949R6	3	25,00,000.00
410	BSP	SHOE,SLIDING,MOD,L1,DWN:PMM-5865	1	1,05,745.86
411	BSP	SHOE,SLIDING,MOD,L1,DWN:PMM-5870	1	1,96,317.50
412	BSP	SHOE,SLIDING,MOD,L2,DWN:PMM-5864	1	1,56,044.56
413	BSP	SHOE,SLIDING,MOD,L2,PMM-5871F/HOUSINGASY	1	1,74,261.82
414	BSP	SHOE,SLIDING,MOD,(R1),DWN: PMM-5868	1	2,34,462.61
415	BSP	SHOE,SLIDING,MOD,R1,DWN:PMM-5866	1	2,12,000.00
416	BSP	SHOE,SLIDING,MOD,R2,DWN:PMM-5867	1	1,68,000.00
417	BSP	SHOE,SLIDING,MOD,R2, DWN:PMM-5869	1	1,75,000.00
418	BSP	SLIDING SHOE,DWN.: PMM-5583	1	6,11,729.52
419	BSP	SLIDING SHOE,DWN.:PMM-5587	1	6,11,729.52
420	BSP	PUMP,CENTRIFUGAL,HORIZONTAL,MM:HDA/100/7	2	1,20,00,000.00
421	BSP	MAIN DRIVE SPINDLE FOR STANDS PMM-1750 R2	2	1,75,00,000.00
422	BSP	INTERMEDIATE SHAFT WITH WEDGE COUPLINGS (PMM-4805, PM-13-068 & PMM-531) FOR STANDS	2	3,75,00,000.00
423	BSP	SLEEVE,CONICAL,DWN.:1-235214,EZTM,	1	40,00,000.00
424	BSP	BUSH,CYL,DWN:1-229622,MAKE:EZTM, RUSSIA	1	50,00,000.00
425	BSP	BALANCING BEAM ASSEMBLY EXIT SIDE FOR STANDS 5.157517.N & 8.375166.A	2	1,25,00,000.00
426	BSP	BALANCING BEAM ENTRY SIDE FOR STANDS 5.157516.N & 8.375166.A	2	1,25,00,000.00
427	DSP	20912601000003/"BLADE,SHEAR, DWN:346013160410005 FOR ROTARY SHEAR	16	27927.50 / 446840
428	DSP	Complete design, manufacture, supply, assembly, testing and commissioning including demonstration of Performance Guarantee of 2 nos. electrically operated 1.5 ton nominal capacity Mobile Charger including accessories (cable reeling drum, mast structure etc) on a turnkey basis for Wheel &Axle Plant (WAP), DSP	1	5,66,00,000.00
429	ISP	RESISTOR, REF:CBH 165CH 5R0 414	40	10,600.00
430	ISP	POWER RESISTOR,ZRF 30/165 SIK 24R	30	7,050.00
431	ISP	POWER RESISTOR GRF 30/156 S 6K8	10	8,000.00
432	ISP	POWER RESISTOR ZRF 30 x 165 SIK.33R	30	8,700.00
433	ISP	INCREMENTAL ENCODER,DFS60B-S4CA02048	6	9,600.00
434	ISP	Incremental Encoder, 2048ppr, RS422	4	6,820.00
435	ISP	Incremental Encoder, 100ppr, HTL	4	9,000.00
436	ISP	Incremental Encoder, 1250ppr, HTL	2	9,000.00
437	ISP	MATING CONNECTOR,12PIN M23, 01210102	10	5,880.00
438	ISP	TERMINAL RESISTOR,PR -STE-END;6021156	2	2,030.00
439	ISP	Radiant Bar BR 3000,230 V,50 Hz	1	64,600.00
440	ISP	INDUCTIVE PROXIMITY SWITCH,IE5257	15	7,000.00
441	ISP	INDUCTIVE PROXIMITY SWITCH,IGT205	5	6,200.00
442	ISP	INDUCTIVE PROXIMITY SWITCH,IGS204	40	4,950.00
443	ISP	INDUCTIVE PROXIMITY SWITCH,IFC204	5	4,950.00
444	ISP	PROXIMITY SWITCH,10MM	60	1,450.00
445	ISP	INDUCTIVE PROXIMITY SWITCH,4MM	20	3,265.00
446	ISP	INDUCTIVE PROXIMITY SENSOR,BES02H7	6	9,000.00
447	ISP	CONNECTOR,EVC008,IFM	20	1,680.00
448	ISP	POSITION SENSOR,BHS0021,BALLUFF	5	13,600.00
449	ISP	ISOMETER,1KOHM-10MOHM	4	1,02,300.00
450	ISP	ÖLFLEX CLASSIC FD 810 4G1,5	175	300.00
451	ISP	ÖLFLEX CLASSIC FD 810 25G1	150	950.00

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
452	ISP	ÖLFLEX CLASSIC FD 810 41G1	100	1,670.00
453	ISP	ÖLFLEX CLASSIC FD 810 4G6	75	870.00
454	ISP	UNITRONIC FD CP (TP) PLUS 3X2X0,5	120	510.00
455	ISP	UNITRONIC FD CP (TP) PLUS 2X2X0,5	30	450.00
456	ISP	Opto coupler splitter for HTL signal	4	29,400.00
457	ISP	Opto coupler splitter for TTL signal	4	27,600.00
458	ISP	RESISTOR, REF:CBH 165CH 5R0 414	40	10,600.00
459	ISP	POWER RESISTOR,ZRF 30/165 SIK 24R	30	7,040.00
460	ISP	POWER RESISTOR GRF 30/156 S 6K8	10	7,910.00
461	ISP	POWER RESISTOR ZRF 30 x 165 SIK.33R	30	8,710.00
462	ISP	INCREMENTAL ENCODER,DFS60B-S4CA02048	6	9,580.00
463	ISP	Incremental Encoder, 2048ppr, RS422	4	6,820.00
464	ISP	Incremental Encoder, 100ppr, HTL	4	9,000.00
465	ISP	Incremental Encoder, 1250ppr, HTL	2	9,000.00
466	ISP	MATING CONNECTOR,12PIN M23, 01210102	10	5,880.00
467	ISP	TERMINAL RESISTOR,PR -STE-END;6021156	2	2,030.00
468	ISP	Radiant Bar BR 3000,230 V,50 Hz	1	64,570.00
469	ISP	Brush for slip ring,Size:1.575"x0.984"x2	16	800.00
470	ISP	INDUCTIVE PROXIMITY SWITCH,IE5257	5	7,000.00
471	ISP	INDUCTIVE PROXIMITY SWITCH,IGT205	5	6,200.00
472	ISP	INDUCTIVE PROXIMITY SWITCH,IGS204	5	4,940.00
473	ISP	INDUCTIVE PROXIMITY SWITCH,IFC204	5	4,940.00
474	ISP	INDUCTIVE PROXIMITY SWITCH,M18X1,10-36V	40	1,740.00
475	ISP	PROXIMITY SWITCH,10MM	60	1,450.00
476	ISP	INDUCTIVE PROXIMITY SWITCH,4MM	20	3,264.00
477	ISP	INDUCTIVE PROXIMITY SENSOR,BES02H7	6	9,000.00
478	ISP	CONNECTOR,EVC008,IFM	20	1,670.00
479	ISP	POSITION SENSOR,BHS0021,BALLUFF	8	13,570.00
480	ISP	ISOMETER,1KOHM-10MOHM	4	1,02,300.00
481	ISP	AC-DC CONVERTER, LXN 1604-6G	5	58,200.00
482	ISP	AC-DC CONVERTER,LWN 2660-6EG	5	33,880.00
483	ISP	Beam Photoelectric sensor(sender/receiver type),Sensing range: 0-60 mtr,Light source- LED,red light, Light spot size- Ø 700 mm at 5 0 m, Sensitivity: adjustable, Supply voltage 10 -30V DC,Switching output- PNP/NPN,Response time= 500 µs,Connection type- PG9,Termina ls with M16 gland, Protection class- II,Enclosure rating- IP67, Ambient temp- up to 60 °C, details as per annexure.	15	25,972.90
484	ISP	Mid range infrared laser distance sensor, measuring range:50mm-3mtr-6%remission, 50mm-12mtr-90% remission,laser class:1, target: nat ural object,resolution:0.1mm, Typ.light spot size:15mmx15mm(at 2m)Supply voltage:12-30v DC,switching output:-2xpushpull :PNP/NPN(100 ma),M12,5pin male connector, indication:LED,Enclosure:IP65, Protection class:III,ambient temp- up to750C,Details as per annexure.	15	15,090.40
485	ISP	Light curtain with Sender/receiver technology,Beam separation- 10 mm, Number of beams>=11, Detection height 150 mm,Parallel beam,Operating range-3 m,Response time-12ms with resistive load, Switching output-2 x PNP(Q/Q),Connection type- 4pin Male connector M12,Supply voltage-15-30V DC,Indication-LED, Synchronization- Optical,Enclosure rating- IP65, Protection class- III, Details as per annexure.	10	41,643.70

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
486	ISP	Laser distance sensor with sensing range 200mm to 10 meter,Target- Natural objects, Resolution-1 mm,Accuracy- ± 10 mm,Light source-Laser (red),Laser class-2,Light spot size- 15 mm x 15 mm(10 m),Analog output- 1 x 4 -20 mA (= 300 O),Supply voltage:10-30Vdc,Male con nector, M12 (5- pin), Indication LC display- 2 x LED,IP65,Protection class-III,Ambient temp:5°C to 80°C. Details as per annexure.	15	16,106.10
487	ISP	SCANNING HOT METAL DETECTOR WITH AIR PURGING,WATER COOLING FOR DETECTION OF PRODUCT WITH TWO SENSITIVITY RANGE:400°C, 230°C. VIEWING ANGLE: 15° VERTICAL AND 4° HORIZONTAL ADJUSTABLE,WITH LASER POINTER, VS= 10- 30VDC,SINGLE POLE CHANGEOVER(C-NO-NC),WITH PLUG CONNECTION,EXTERNAL SENSITIVITY ADJUSTMENT,TEST FUNCTION TO SIMULATE HOT PRODUCT FROM REMOTE,MULTICOLOUR LED INDICATOR.DETAIS AS PER ANNEXURE.	10	1,91,386.90
488	ISP	STATIC HOT METAL DETECTOR WITH AIR PURGING AND WATER COOLING FOR DETECTION OF PRODUCT WITH TEMPERATURE OVER 400°C. VIEWING ANGLE: 15° VERTICAL AND 4° HORIZONTAL ADJUSTABLE,SUPPLY VOLTAGE:10- 30VDC,SINGLE POLE CHANGEOVER(C-NO-NC),WITH TERMINAL BLOCK,EXTERNAL SENSITIVITY ADJUSTMENT,TEST FUNCTION TO SIMULATE HOT PRODUCT FROM REMOTE,MULTICOLOUR LED INDICATOR.DETAIS AS PER ANNEXURE.	10	70,518.60
489	ISP	M12 5 pin profibus DP screw type connector female (D53 type) field installable.	25	1,088.25
490	ISP	M12 5 pin profibus DP screw type connector male (D53 Type) field installable.	25	1,088.25
491	ISP	M8 4 pin power connector female straight exit (D53 Type) field installable	25	870.60
492	ISP	5-PIN PROFIBUS DP BUS TERMINATOR M12, 5-PIN PROFIBUS DP BUS TERMINATOR M12 (D53 TYPE) FIELD INSTALLABLE	25	508.34
493	ISP	5-PIN MALE CONNECTOR 90° DEG. M12, 5-PIN MALE CONNECTOR PROFIBUS DP SCREW TYPE (M12) 90° DEG EXIT (FIELD INSTALLABLE)	10	1,088.25
494	ISP	5-PIN FEMALE CONNECTOR 90° DEG. M12, 5-PIN FEMALE CONNECTOR PROFIBUS DP SCREW TYPE (M12) 90° DEG EXIT (FIELD INSTALLABLE)	10	1,088.25
495	ISP	SHAFT TYPE:16MM DIA BLIND HOLLOW SHAFT,SIZE (FLANGE): 97 MM DIA,SUPPLY :9-30 V, PPR:1024,SPEED <=10000 RPM,LOGIC LEVEL :HTL, OUTPUT SIGNAL: K1,K2,K0 & INVERTED, OUTPUTFREQUENCY <=170KHZ;HOUSING-AL,ISHAFT: STAINLESS STILL, IP56;CONNECTION:FLANGE CONNECTOR M23, 12-PIN,OPTICAL SENSING,ADMITTED SHAFT LOAD<=400N(AXIAL), <=500N(RADIAL)	5	46,286.90
496	ISP	INDUCTIVE PROXIMITY SWITCH, WITH SENSING DISTANCE: 15 MM, SUPPLY VOLTAGE: 15 TO 34 VDC, BARREL DIAMETER: M30 X 1.5 MM, CONTACT ARRANGEMENT: NO + NC, DC PNP, 4-WIRE, PROTECTION: IP65, SWITCHING FREQUENCY: 100 HZ	40	580.40
497	ISP	INDUCTIVE PROXIMITY SWITCH with sensing distance: 8 mm; supply voltage: 15-34 V DC; barrel dia.: M18 x 1 mm; DC PNP; 3-wire; IP67; switching freq.: 500 Hz; similar to 3RG40 23-3AG01-PF (P & F)	40	507.85
498	ISP	PROXIMITY SWITCH,BES 516-300-S300-S4-D, MANUFACTURER :BALLUFF, PART NO :BE S 516-300-S300-S4-D	10	13,494.30
499	ISP	2 wire Electronic Pressure Transmitter with cable length minimum 3m, Mechanical Connection: 1/4 "BSP(male) A DIN 3852,Supply Voltage :24 VDC,Output Signal:4-20mA, Electrical Connection: Flying lead (Teflon cable, silicone- free),Operating Range:0-400 bar, Overload P ressure: 900 bar, Burst Pressure: 2000 bar, Seal Material: Viton (G ½ A) NBR O-ring (G ½ A)	10	22,925.80
500	ISP	MAIN DRIVE ENCODER,FGH6KK2500G90GNGSJ50P, MANUFACTURER :HUBNER ELEKTROMASCHINEN AG, TYPE/MODEL :FGH 6KK-2500G-90G-NG-S-J/50P	2	9,20,296.75
501	ISP	INFRARED LASER BARRIER, WITH LED INDICATION, TYPE: EMITTER-RECEIVER, WITH HIGH POWER INFRARED LASER PULSE, LASER CLASS: 1M, DISPERSION ANGLE: MINIMUM-1.6 DEG (EMITTER), 3 DEG (RECEIVE R), TEMPERATURE RANGE: 20 ȡ 120 DEG C, WITH AIR AND WATER COOLING SYSTEM, POWER SUPPLY: 220 VAC, RELAY O/P-C, CONTACT CONFIGURATION: NO, NC, RATED VOLTAGE: 230 V, RATED CURRENT: 2.5 A, RESPONSE TIME < 15 MS, DISTANCE BETWEEN EMITTER AND RECEIVER > 30 M, PROTECTION CLASS: IP67, CONNECTOR FITTED WITH CABLE	1	2,31,724.70

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
502	ISP	Pinch Roll Ring; Danieli Drawing No. - 5.222974.Z,Material- Tanca 50/HDW7 , Hardness - 60-65 HRC	102	62,308.22
503	ISP	Pinch Rolls for WRM	110	42,573.00
504	ISP	Ring Lock Unit	10	5,03,638.00
505	ISP	Impact Tool, Drg.No:-2.009794.F for BGV and TMB	9	3,21,407.00
506	ISP	PINCH ROLL & LAYING HEAD AREA/RINGS CLAMPING unit GROUP	22	37,530.00
507	ISP	Centering Projector:-585-90, Dgg.No:-8.163415.X	2	6,03,703.00
508	ISP	Drg.No:-4.021778.C, Bush, It Is Part Of Assembly:-8.059414.G, Jet Position Dp03e8014871	26	81,954.00
509	ISP	Bush For Rings Locking Unit Of Mandrel For Bgv, Code 4.358711.N	80	52,413.00
510	ISP	Support Assembly of for BGV Roller Guide. Drg.No:-8.293343.Q	10	54,443.00
511	ISP	Support Assembly of for TMB Roller Guide. Drg.No:-8.285569.L	9	57,000.00
512	ISP	Complete Assembly of 8.249311.T/00B, FUNNELS ASSEMBLY for TRH, Jet Position:-DP03E8015013	4	52,259.00
513	ISP	DIVERTER PIPE FOR ROUNDS(dia-18.5 to 23)Drawing No.-8.126193.M, inner dia-30 mm.	3	1,43,995
514	ISP	HOLLOW PROFILED FRICTION SAW BLADE FOR COLD SAWING APPLICATION. DRAWING NO. 'S05-034-9355' AND PART NO.HS1800. INDICATIVE CHEMICAL COMPOSITION(%) C: 0.43-0.5, Si:0.4 Max, Mn: 0.5-0.8, Ni:- 0.4 Max, P: 0.045 Max, S: 0.045 Max, Cr: 0.4 Max, Mo: 0.1 Max	150 pc	60,000/Per piece
515	ISP	COUPLING,GEAR,REF:8.306413.D/A03	1	7,20,464.64
516	ISP	COUPLING,GEAR,REF:8.306413.D/A04	1	7,02,453.02
517	ISP	COUPLING,GEAR,REF:8.306412.C/A01	4	6,66,429.79
518	ISP	COUPLING,GEAR,REF:5.037891.G/013	1	4,62,834.20
519	ISP	COUPLING,GEAR,REF:4.815430.M/008	1	8,36,253.60
520	ISP	GEAR COUPLING,4.460164.E/008	1	14,175.00
521	ISP	COUPLING,GEAR,REF:5.134185.B/002	1	90,058.08
522	ISP	GEAR COUPLING,4.565190.T/002	1	10,610.97
523	ISP	COUPLING,GEAR,REF:4.846417.K/004	1	54,513.48
524	ISP	COUPLING,GEAR,REF:4.789993.R/010	1	55,321.39
525	ISP	COUPLING,GEAR,REF:4.739171.G/009	1	1,02,923.50
526	ISP	GEAR COUPLING,4.756531.T/002	1	24,653.00
527	ISP	GEAR COUPLING,DRIVE UNIT,4.916087.B/002	1	1,52,945.25
528	ISP	COUPLING,GEAR,REF:5.051540.G/004	1	5,53,213.92
529	ISP	COUPLING,GEAR,REF:4.739171.G/014	2	96,490.80
530	ISP	COUPLING,GEAR,REF:4.739171.G/012	3	1,02,923.52
531	ISP	COUPLING,GEAR,REF:4.285635.T/001	1	96,490.80
532	ISP	COUPLING,4.383387.V	2	13,696.00
533	ISP	COUPLING,GEAR,REF:4.916086.A/006	1	1,79,927.15
534	ISP	COUPLING,GEAR,REF:5.287146.R/003	1	1,26,274.29
535	ISP	COUPLING,GEAR,REF:5.287146.R/004	1	1,26,274.29
536	ISP	COUPLING,GEAR,REF:5.287146.R/010	2	1,26,274.29
537	ISP	COUPLING,GEAR,REF:5.287146.R/008	1	1,26,274.29
538	ISP	COUPLING,GEAR,REF:5.287146.R/011	1	1,26,274.29
539	ISP	COUPLING,GEAR,REF:5.287146.R/002	1	1,26,274.29
540	ISP	COUPLING,GEAR,REF:5.287146.R/009	2	1,26,274.29
541	ISP	COUPLING,GEAR,REF:5.287146.R/007	2	1,26,274.29
542	ISP	COUPLING,GEAR,REF:5.287146.R/005	1	1,26,274.29
543	ISP	COUPLING,GEAR,REF:5.287146.R/012	1	1,26,274.29
544	ISP	COUPLING,GEAR,REF:5.287146.R/006	1	1,26,274.29
545	ISP	COUPLING,GEAR,REF:5.287146.R/013	1	1,26,274.29

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
546	ISP	Gear Couplings for Other Stands, Pinch Rolls/SHEARS	1	
547	ISP	Cardan Spindle #01 & #3, 0.221145.E/002	4	18,85,700.00
548	ISP	Cardan Spindle #05,REF:0.221161.E/004	2	12,80,200.00
549	ISP	SPINDLE,ARTICULATED,REF:0.221174.C/003	4	4,85,160.75
550	ISP	SPINDLE,ARTICULATED,REF:0.221153.E/004	4	2,20,000.00
551	ISP	Cardan Spindle #11,#13,#15, 0.221148.Q/004	6	1,34,461.00
552	ISP	MODIFIED CARDAN SPINDLE #06	4	
553	ISP	TWO LIP ROTARY SHAFT	140	5,299.00
554	ISP	Torque rated Shear Pins for Stands#1 to 16		
555	ISP	COMBINATION ROLL BEARING, 0.072203.P	24	2,902.60
556	ISP	COMBINATION ROLL BEARING,0.072420. D	10	9,776.00
557	ISP	COMBINATION ROLL BEARING,0.160035.C	36	7,764.00
558	ISP	COMBINED BEARING,0.072418.E	10	3,856.64
559	ISP	OTHER COMBINED BEARINGS		
560	ISP	Internals for High speed Stands Gear Boxes		
561	ISP	STOP PLATE ASSY,SDNF/AT01-01	56	29,200.00
562	ISP	C-HOOK RELATED other Spares		
563	ISP	Bearings		
564	ISP	In-Furnace Roll	12	11,25,000.00
565	ISP	SEAL,ROTARY,2LIP,REF:5.113871.L/001	150	4,944.00
566	ISP	Torque rated Shear Pins for Stands#1 to 16	25 sets for each stands	
567	ISP	COMBINATION ROLL BEARINGS	12 each 3 types	Case to case basis
568	ISP	Internals for High speed Stands Gear Boxes	Case to case basis	Case to case basis
569	ISP	Stands gear couplings	Case to case basis	Case to case basis
570	ISP	Cutting Shear gear couplings	Case to case basis	Case to case basis
571	ISP	Cardan spindles for Roughing & Finishing Stands (1-6 & 11/13/15)	Case to case basis	Case to case basis
572	ISP	Flexible couplings for high speed gearboxes/Tail breakers	Case to case basis	Case to case basis
573	ISP	Gas valves of furnace/RHF	Case to case basis	Case to case basis
574	ISP	Bearings	Case to case basis	Case to case basis
575	ISP	DESCALER SAFETY VALVE DN25,PN410,VSG 202 BII	2	19,16,460.00
576	RSP	JOINT,EXP,TUBOFLEX RBR,150MM	14 EA	21,584.04
577	RSP	TAPERED NOZZLE LIP,PD/R-194113,F/JET M/C	2 EA	1,46,248.00
578	RSP	TAPERED NOZZLE LIP,PD/R-194114,F/JET M/C	2 EA	1,39,008.00
579	RSP	SHAFT,ARTICU/UNIV/CARDN,PN:1,CDB/R-45388	1 EA	7,85,273.00
580	RSP	SHAFT,ARTICU/UNIV/CARDN,PN:2,CDB/R-45388	1 EA	7,80,798.26
581	RSP	COILER MANDREL SEGMENT	5 ea	11,37,693.60
582	RSP	SHAFT,UNIVERSAL,DWN:PD/R-117403 R1,POS:1	6 EA	98,500.00
583	RSP	COILER MANDREL ASSEMBLY	1 ea	63,94,491.20
584	RSP	PAD	260 NOS	4,685.32
585	RSP	SKID BUTTON	158 NOS	10,046.23
586	RSP	FM -I DRIVE SPINDLE	1 SET	92,12,700.00
587	RSP	DRIVE INTERNALS GEAR RING AND HUBS FOR FM-1	2 ea	92,12,700.00
588	RSP	ADAPTER- ASSY FOR FM-1	3 ea	3,81,462.00
589	RSP	CPLG,FULLFLEX,HEAVY DUTY,PD/R-50145,PN:1	1 EA	31,14,770.00
590	RSP	VALVE,SERVO,MM:4WS2EM10-4X/75B2ET315Z8DM	2 ea	3,53,325.00
591	RSP	COILER WRAPPER ROLL SERVO VALVE	2 ea	12,93,954.72

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
592	RSP	DRIVE INTERNALS GEAR RING AND HUBS FM 2-6	3 ea	1,58,355.85
593	RSP	HYDRAULIC CYLINDER,KDMP-350/220X705	1 EA	34,78,891.00
594	RSP	UNIVERSAL JOINT SHAFT,DIA:171MM,F/CPL	2 EA	1,80,276.00
595	RSP	LEVELLER ROLL FOR COLD PLATE LEVELLER CASSETTE MOC AND ALL OTHER PARAMETER SHOULD BE AS PER DRAWING. DRAWING NO : PD/R-276102	20 EA	15,33,448.35
596	RSP	SPINDLE GREASE LUBRICATOR,ART:T40930092	1 EA	35,96,462.60
597	RSP	CYLINDER,HYDRAULIC,F/DOUBLE SIDE SHEAR	1 EA	3,02,264.30
598	RSP	KIT,GASKET,F/HYD.CYLINDER	2 EA	10,177.84
599	RSP	KIT,GASKET F/HYD.CYLINDER,CODE-3060180D	4 EA	12,108.12
600	RSP	CYLINDER,HYD,MM:256A4.2 GA 16090- 340 D	1 EA	3,08,142.88
601	RSP	BOTTOM KNIFE,2075MM LONG,F/DSTS LOCATION : DOUBLE SIDE TRIMMING SHEAR DRAWING NO: RSP DRG.NO: 201-F-B-06-D-M-0225	4 EA	2,15,722.83
602	RSP	TOP KNIFE,2080MM LONG,F/DSTS LOCATION : DOUBLE SIDE TRIMMING SHEAR DRAWING NO: RSP DRG NO: 201-F-B-06-D-M-0224	8 EA	2,40,681.35
603	RSP	TOP KNIFE,4400MM LONG,F/DIVIDING SHEAR LOCATION : DIVIDING SHEAR DRAWING NO: RSP DRG NO: 201-F-B-06-D-M-0012	3 EA	5,28,633.50
604	RSP	BOTTOM KNIFE,4400MM LG,F/DIVIDING SHEAR LOCATION : DIVIDING SHEAR DRAWING NO: RSP DRG NO: 201-F-B-06-D-M-0013	1 EA	4,56,248.00
605	RSP	ROLL END SLIPPER PAD,DWN:PD/R-268458 FOR WORK ROLL LOCATION : FINISHING MILL WORK ROLL (ROLL END) DRAWING NO : PD/R-268458	4 EA	6,13,302.60
606	RSP	PISTON,F/BOTTOM BENDING CYL,PD/R-271675	2 EA	1,92,150.60
607	RSP	PISTON,F/TOP BENDING CYL,DWN:PD/R-271675	2 EA	2,52,427.98
608	RSP	TOOTH GEARED COUPLING FOR SCREW DOWN COUPLING AS PER REPLACEMENT SPECIFICATION DRAWINGS DRAWING NO : R.S-3.10.286	5 EA	2,82,553.51
609	RSP	TOOTH GEARED COUPLING FOR SCREW DOWN COUPLING AS PER REPLACEMENT SPECIFICATION DRAWINGS DRAWING NO : R.S-3.10.287	5 EA	3,80,996.03
610	RSP	TOOTH GEARED COUPLING FOR SCREW DOWN COUPLING AS PER REPLACEMENT SPECIFICATION DRAWINGS DRAWING NO : R.S-3.10.288	5 EA	4,40,823.31
611	RSP	THROTTLE,GD100U-CS ,SCHROEDAHL FOR MINIMUM FLOW LINE, DESCALING SYSTEM GD100U-CS, 14 STAGE ,DN3/DN3 CLASS 2500 INLET PRESSURE : 285 BAR OUTLET PRESSURE 10 BAR FLANGE :ASME B16.5RTJ MATERIAL: 1.0460 MAKE: SCHROEDAHL.	3 nos	7,52,960.00
612	RSP	COUPLING,F/PRIM DESC ROLL,R.S-3.10.268	4 EA	2,10,576.00
613	RSP	MARKING SECTION,PN:CMM16R,ALPINE	7 EA	3,88,966.34
614	RSP	ARR.MAGNET PUNCHER,PN:MM0533A,ALPINE	18 EA	1,32,985.76
615	RSP	BY PASS MANIFOLD ASSLY,PN:AA001524	1 EA	1,88,630.47
616	RSP	FAN,230VAC,85W,PN:RC-DKHR220-4,RC TECH	6 EA	27,199.40
617	RSP	SEALKIT,F/SCREW PUMP,TRF660R46U184V-W203	2 EA	77,035.72
618	RSP	SEALKIT,F/SCREW PUMP,TRF940R42U18.4V-W203	2 EA	76,772.50
619	RSP	SEALKIT,F/SCREW PUMP,MM:UCF080K4 IVBP	2 EA	8,774.00
620	RSP	SEALKIT,F/SCREW PUMP,MM:UCF90K4 IVBP	2 EA	10,002.36
621	RSP	SEAL KIT,F/PUMP MM:TRF940R42U18.4U.W203	1 EA	77,035.72
622	RSP	SEAL KIT,F/SCREW PUMP,SNF940ER42U12.1-W1	1 EA	28,252.28
623	RSP	SEAL KIT,F/SCREW PUMP,SNF440ER40U12.1-W1	1 EA	19,829.24
624	RSP	SEAL KIT,F/SCREW PUMP,SNF210ER46U12.1-W1	1 EA	13,862.92

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
625	RSP	FAN,400V,1.6KW,PN:RC-TDKE280-4,RC-TECH	6 EA	25,795.56
626	RSP	CYLINDER,HYD,DOUBLE,MAT:30289621A,HAINZL	2 EA	2,54,270.52
627	RSP	HYD CYL,DOUBLE,F/COLD PLATE LEVELLER	1 EA	35,83,740.30
628	RSP	SEALKIT,F/CYL,HYD,2562.2FL 160110-225DBE	6 SET	16,122.23
629	RSP	SEAL KIT,F/HYD CYL,COLD PLATE LEVELLER	2 SET	1,04,849.30
630	RSP	DETECTOR,HOT METAL,INFRARED TECH,220VAC	3 EA	1,27,223.00
631	RSP	SKID BUTTON,DWN:PD/R-135057,POS:1	265 EA	3,665.78
632	RSP	REDUCER,114.3/101.6MM,DWN:PD/R135089	16 EA	9,774.00
633	RSP	ELBOW,90DEG,101.6X21.3TH,DWN:PD/R 135086	24 EA	17,738.00
634	RSP	ELBOW,DWN:PD/R-135087	20 EA	19,910.00
635	RSP	REDUCER,DIA:219.1/101.6MM,PD/R-135089	4 EA	29,973.60
636	RSP	SKID BUTTON,DWN:PD/R-135057,POS:2	155 EA	7,304.36
637	RSP	GUSSET,DWN:PD/R-135064,ITM:DETAIL-2	5 EA	7,914.15
638	RSP	SLIDING FLAT,PD/R-135064,ITM:DETAIL-3	28 EA	9,525.93
639	RSP	GUSSET,DWN:PD/R-135064,ITM:DETAIL-4	5 EA	9,388.18
640	RSP	GUSSET,DWN:PD/R-135064,ITM:DETAIL-5	5 EA	32,814.76
641	RSP	PUNCH DIE,105 DEGREE,G40,PN:MSO 567	81 EA	10,594.61
642	RSP	CYL,STROKE,1374598,140X100X250MM,HERBERT	1 EA	5,34,797.24
643	RSP	TUBE COLLECTOR,DWN:760713	6 EA	30,046.00
644	RSP	HYDRAULIC MOTOR,PN:1780285-801,REIDVILLE.HYDROSTATIC WHEEL HUB TYPE, RADIAL PISTON CONSTRUCTION WITH CAM CURVES,AND ROTATING HOUSING. ROTATION DIRECTION:RIGHT AND LEFT HAND.MANUFACTURER : REIDVILLE HYDRAULICS.TYPE/MODEL : 12-00850.PART NO : 178-0285-801	1 EA	4,79,650.00
645	RSP	VALVE,2WAY,DWN:74-020-0020 MICRO FLOW CONTROL WITH MANUAL CONTROL SUB PLATE MOUNTING, PRESSURE:210BAR(MAX),FLOW UPTO 1 LITRE/MIN,SUPPLIER TO ENCLOSE CATALOGUE/LITERATURE ALONG WITH OFFER MANUFACTURER : SCHIEDRUM HYDRAULIK,TYPE/MODEL: 20-CR-1H,DRAWING NO : 74-020-0020	3 EA	37,925.62
646	RSP	ADHESIVE POLYTHENE POLYMER ADHESIVE POLYTHENE POLYMER , FOR EXTERNAL COATED SURFACE OF STEEL PIPE AS A TIE LAYER BETWEEN EPOXY AND THE TOP COAT POLY ETHYLENE IN THREE LAYER COATED STEEL PIPES. ADHESIVE SHALL HAVE THE FOLLOWING PROPERTIES; MELT FLOW RATE (190 DEG C / 2.16 KG) ; UNIT = 1.0 GM/10 MIN (MINIMUM) VICAT SOFTENING POINT UNIT = 100 DEG C SPECIFIC GRAVITY , UNIT = 0.926 (MINIMUM)	2014 - 26.7 TON	1,80,820.40
647	RSP	POLYETHYLEN GRANULES, BLACK,HIGH DENSITY POLYETHYLENE GRANULES, BLACK, HIGH DENSITY, USED FOR THE THIRD LAYER COATING OVER THE STEEL PIPES IN THE 3LPE COATING PROCESS. POLYETHYLENE SHALL HAVE THE FOLLOWING PROPERTIES: TENSILE STRENGTH @ +25 DEG C ; UNIT = 17 N/SQMM (MINIMUM) MELT FLOW RATE (190 DEG C / 2.16 KG) ; UNIT =0.25 G/10 MIN (MINIMUM) SPECIFIC GRAVITY , @ +25 DEG C ;UNIT=0.941 (MINIMUM) VOLUME RESISTIVITY @ +25 DEG C ; UNIT=1015OHM-CM (MINIMUM) DI-ELECTRIC WITHSTAND 1000 VOLTS/SEC RISE @ 25 DEG C; UNIT = 30000 VOLTS/MM (MINIMUM) VICAT SOFTENING POINT ; UNIT = 110 DEG C (MINIMUM) ELONGATION UNIT = 600% (MINIMUM)	2012 T	92,211.20
648	SSP	Coiler drum with End flanges	01 set	190.25
649	SSP	Coiler Shaft Protection sleeves	1 set	23.14
650	SSP	Coiler drum inter drive shaft	1 set	11.56
651	SSP	DC Mandrel Spares	26 items	72.37
652	SSP	RM & SM Wobbler	1 + 1 No.	52.40
653	SSP	Cardan Shafts	4 Nos.	22.24
654	SSP	Reheating Furnace Riders	150Nos.	25.00
655	SSP	Coil Car / Turn Table Hydraulic motors	1 No.	16.00
656	SSP	Cast Steel Shots S-170 - Cast steel shots S-170 are used in AP Lines 2&3 to remove the scales from the in process stainless steel strip by mechanical means.	354 Tons	243.00

Sl#	Plant	Item	Required Annual Quantity	Rate / Value converted to INR
657	SSP	Backup Bearing Z Mills-Z Mills consist of eight No's of Back-Up-Bearings (BUB) viz A to H, Screw down load is applied through BUB, "B" & "C". The entire rolling load is shared by all these eight No's of BUB's. Out of these, max load is taken by "B" & "C" bearings.	24 No's	32.00
658	SSP	Saddle Assly Z Mill 3-Saddle Assly is used in Automatic gauge control as well as Automatic shape control of Stainless Steel Strips in Mill 3.	14 No's	29.00
659	SSP	Supamic Filter for Z Mill 3- Supamic Filter is used for rolling oil filtration in Zmill 3.	5000 No's	55.00
660	SSP	Polypropylene Pumps-Polypropylene Pumps are used in Annealing & Pickling lines pickling section for pumping corrosive acids.	2 nos	20.00
661	SSP	Polypropylene Pipes & Fittings-Polypropylene Pipes & Fittings are used in Annealing & Pickling lines pickling section for transferring corrosive acids.	100 mtr	20.00
662	SSP	Precoat filter tubes-Precoat filtration flex tubes 0.5" dia and 60" long for Sendzimir rolling mills	1250	12.00
663	SSP	Surface Protection Film-Surface protection film is used in Shearing and Slitting lines for covering the single / both side of the strip /sheet to avoid possible generation of scratches during subsequent operation like bending, drilling, welding, etc.	562 rolls	111.00
664	SSP	Fabric Wiper Roll Z Mill-Fabric Wiper Rolls are used for wiping the oil from strip surface thoroughly during cold rolling of stainless steel in Zmill	4 No's	22.00
665	SSP	Skinpass Mill Rolls-Skinpass Mill Rolls are used to obtain a flat strip profile with the desired mechanical and surface properties.	2 Rolls	53.00
666	SSP	IL Paper 35 GSM-Kraft Interleaving paper 35 GSM is used in slitting lines, shearing line, skin pass mills and Tension leveler to protect the strip form scratches, marks, etc due to rubbing between the layers during coiling / uncoiling / further handling.	400	395.00
667	SSP	IL Paper 45 GSM-Kraft Interleaving paper 45 GSM is used in Annealing & Pickling Lines and Zmills to protect the strip form scratches, marks, etc due to rubbing between the layers during coiling / uncoiling / further handling.	400	374.00
668	SSP	Dia Earth - Used in Z Mill1 & 2 Filtration system	22 Tons	14.00
669	SSP	Surface Protection Film - Laser	100 Rolls	62.00
670	SSP	Polypropylene/PVC Diaphragm valves-Polypropylene/PVC Diaphragm valves are used in Annealing & Pickling lines pickling section for transferring corrosive acids.	40 nos	20.00
671	SSP	Vacuum conveyor belt in SHL-Vacuum conveyor belt in SHL is used for transferring and stacking of stainless steel sheets.	1 no.	8.00
672	SSP	Al-Bz furnace roll-Support rolls of Al-Bz coating used in SS Continuous Annealing furnaces	2 nos	35.00
673	SSP	Fabric wiper roll for Z Mill-3	2 No's	11.00
674	DSP	Design, engineering, procurement, manufacture, fabrication, supply, erection, testing, commissioning, stabilisation and demonstration of performance guarantee of 2nd circular saw with allied facilities in Wheel Axle Plant at Durgapur Steel Plant on a turnkey basis.	1 EA	24,13,00,000.00