

No :
Tanggal : 13 April 2026
Dari : Engineering

SURAT PERMINTAAN BARANG

No	Kode Barang	Nama Barang, Tipe, Spesifikasi	Lokasi / User	Riwayat Pembelian				Jumlah Permintaan	Satuan	Target Date	Kategori		Keterangan
				Tanggal	Jumlah	No SPB	Supplier						
1	IMO16288	Pipa Galvanis Medium 2"	Unit 8B	-	-	-	-	6	Batang	18-05-26	1. Inventaris		Sesuai Dengan Process & Utility Distribution Unit 8B U0.6 Industrial Steam & Distribution System(6 Ton / 10 Ton) Project Aktivasi Unit 8 (LOCAL)
2	IMO16210	Pipa Black Steel Seamless SCH40 6"	Unit 8B	-	-	-	-	4	Batang	18-05-26	2. Spareparts	V	
3	IMO16210	Pipa Black Steel Seamless SCH40 4"	Unit 8B	-	-	-	-	2	Batang	18-05-26	3. Consumable		
4	IMO16210	Pipa Black Steel Seamless SCH40 2"	Unit 8B	-	-	-	-	6	Batang	18-05-26	4. Jasa		
5	IMO16210	Pipa Black Steel Seamless SCH40 1"	Unit 8B	-	-	-	-	6	Batang	18-05-26	5. Project		
6	IMO16210	Pipa Black Steel Seamless SCH40 1/2"	Unit 8B	-	-	-	-	6	Batang	18-05-26			
7	IMO02116	Ball Valve Drat Dalam 1000WOG 2"	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
8	IMO02116	Ball Valve Drat Dalam PN25 DN20 3/4"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
9	IMO02116	Ball Valve Drat Dalam PN25 DN15 1/2"	Unit 8B	-	-	-	-	12	Pcs	18-05-26			
10	IMO02116	Ball Valve Flange CI FC DN100 KITZ	Unit 8B	-	-	-	-	1	Pcs	18-05-26			
11	IMO07024	Globe Valve Flange CI DN150 PN16	Unit 8B	-	-	-	-	3	Pcs	18-05-26			
12	IMO07024	Globe Valve Flange CI DN125 PN16	Unit 8B	-	-	-	-	1	Pcs	18-05-26			
13	IMO07024	Globe Valve Flange CI DN100 PN16	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
14	IMO07024	Globe Valve Flange CI DN80 PN16	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
15	IMO07024	Globe Valve Flange CI DN50 PN16	Unit 8B	-	-	-	-	12	Pcs	18-05-26			
16	IMO07024	Globe Valve Flange CI DN40 PN16	Unit 8B	-	-	-	-	1	Pcs	18-05-26			
17	IMO07024	Globe Valve Flange CI DN25 PN16	Unit 8B	-	-	-	-	7	Pcs	18-05-26			
18	IMO07024	Globe Valve Flange CI DN15 PN16	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
19	IMO02452	Blowdown Valve Flange CI DN50 PN16	Unit 8B	-	-	-	-	3	Pcs	18-05-26			
20	IMO03061	Lift Check Valve Flange CI DN150 PN16	Unit 8B	-	-	-	-	1	Pcs	18-05-26			
21	IMO03061	Disc Check Valve Wafer SS DN50 PN40	Unit 8B	-	-	-	-	6	Pcs	18-05-26			
22	IMO25004	Y Strainer Steam Flange Cast Iron DN50 PN16	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
23	IMO25004	Y Strainer Steam Flange Cast Iron DN25 PN16	Unit 8B	-	-	-	-	1	Pcs	18-05-26			
24	IMO02526	Ball Float Steam Trap Flange 1" DN25 PN16 Spirax Sarco	Unit 8B	-	-	-	-	2	Pcs	18-05-26			

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				Tanggal	Jumlah	No SPB	Supplier						
25	IMO06074	Flange DIN EN 1092-1 PN25 Raised Face DN150	Unit 8B	-	-	-	-	4	Pcs	18-05-26			Sesuai Dengan Process & Utility Distribution Unit 8B U0.6 Industrial Steam & Distribution System(6 Ton / 10 Ton) Project Aktivasi Unit 8 (LOCAL)
26	IMO06074	Flange DIN EN 1092-1 PN16 Raised Face DN100	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
27	IMO06074	Flange DIN EN 1092-1 PN16 Raised Face DN80	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
28	IMO06074	Flange DIN EN 1092-1 PN16 Raised Face DN50	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
29	IMO06074	Flange JIS16K Raised Face DN150	Unit 8B	-	-	-	-	6	Pcs	18-05-26			
30	IMO06074	Flange JIS16K Raised Face DN125	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
31	IMO06074	Flange JIS16K Raised Face DN100	Unit 8B	-	-	-	-	8	Pcs	18-05-26			
32	IMO06074	Flange JIS16K Raised Face DN80	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
33	IMO06074	Flange JIS16K Raised Face DN50	Unit 8B	-	-	-	-	26	Pcs	18-05-26			
34	IMO06074	Flange JIS16K Raised Face DN40	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
35	IMO06074	Flange JIS16K Raised Face DN25	Unit 8B	-	-	-	-	12	Pcs	18-05-26			
36	IMO06074	Flange JIS16K Raised Face DN15	Unit 8B	-	-	-	-	10	Pcs	18-05-26			
37	IMO02138	Blind Flange JIS16K Raised Face DN50	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
38	IMO02138	Blind Flange JIS16K Raised Face DN40	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
39	IMO02138	Blind Flange JIS16K Raised Face DN25	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
40	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 6"	Unit 8B	-	-	-	-	6	Pcs	18-05-26			
41	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 4"	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
42	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 3"	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
43	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 2"	Unit 8B	-	-	-	-	24	Pcs	18-05-26			
44	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 1,5"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
45	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 1"	Unit 8B	-	-	-	-	16	Pcs	18-05-26			
46	IMO05026	Elbow 90° Black Steel SCH80 BW-Seamless 1/2"	Unit 8B	-	-	-	-	10	Pcs	18-05-26			
47	IMO05026	Elbow 45° Black Steel SCH80 BW-Seamless 1"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
48	IMO05026	Elbow 45° Black Steel SCH80 BW-Seamless 1/2"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
49	IMO20096	Tee Black Steel SCH80 BW-Seamless 2"	Unit 8B	-	-	-	-	12	Pcs	18-05-26			
50	IMO20096	Tee Black Steel SCH80 BW-Seamless 1"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
51	IMO20096	Tee Black Steel SCH80 BW-Seamless 1/2"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
52	IMO20097	Tee Reducer Black Steel SCH80 BW-Seamless 2"x1"	Unit 8B	-	-	-	-	2	Pcs	18-05-26			

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				Tanggal	Jumlah	No SPB	Supplier						
53	IMO18069	Reducer Concentric Black Steel SCH80 BW-Seamless 6" x 5"	Unit 8B	-	-	-	-	1	Pcs	18-05-26			Sesuai Dengan Process & Utility Distribution Unit 8B U0.6 Industrial Steam & Distribution System(6 Ton / 10 Ton) Project Aktivasi Unit 8 (LOCAL)
54	IMO18069	Reducer Concentric Black Steel SCH80 BW-Seamless 2" x 1/2"	Unit 8B	-	-	-	-	3	Pcs	18-05-26			
55	IMO19171	Socket Drat Dalam Black Steel SCH40 1/2"	Unit 8B	-	-	-	-	20	Pcs	18-05-26			
56	IMO05011	Elbow Drat Galvanis 2"	Unit 8B	-	-	-	-	10	Pcs	18-05-26			
57	IMO20119	Tee Drat Galvanis 2"	Unit 8B	-	-	-	-	3	Pcs	18-05-26			
58	IMO23020	Watermur Galvanis 2"	Unit 8B	-	-	-	-	4	Pcs	18-05-26			
59	PMSN00087	Spiral Wound Gasket DN150 PN16 6"	Unit 8B	-	-	-	-	10	Pcs	18-05-26			
60	PMSN00087	Spiral Wound Gasket DN125 PN16 5"	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
61	PMSN00087	Spiral Wound Gasket DN100 PN16 4"	Unit 8B	-	-	-	-	6	Pcs	18-05-26			
62	PMSN00087	Spiral Wound Gasket DN80 PN16 3"	Unit 8B	-	-	-	-	6	Pcs	18-05-26			
63	PMSN00087	Spiral Wound Gasket DN50 PN16 2"	Unit 8B	-	-	-	-	30	Pcs	18-05-26			
64	PMSN00087	Spiral Wound Gasket DN40 PN16 1 1/2"	Unit 8B	-	-	-	-	2	Pcs	18-05-26			
65	PMSN00087	Spiral Wound Gasket DN25 PN16 1"	Unit 8B	-	-	-	-	10	Pcs	18-05-26			
66	PMSN00087	Spiral Wound Gasket DN15 PN16 1/2"	Unit 8B	-	-	-	-	10	Pcs	18-05-26			
67	IMO02052	Besi Siku 50 x 50 x 5 mm	Unit 8B	-	-	-	-	5	Batang	18-05-26			
68	IMO02112	Besi UNP 75 x 40 x 5 mm	Unit 8B	-	-	-	-	5	Batang	18-05-26			
69	IMO02163	Besi Behel 12 mm	Unit 8B	-	-	-	-	8	Batang	18-05-26			
70	IMO12167	Long Drat M12 x 1m	Unit 8B	-	-	-	-	10	Batang	18-05-26			
71	IMO04119	Dynabolt M12 x 75	Unit 8B	-	-	-	-	150	Pcs	18-05-26			
72	ATSP00973	Ubolt + Mur 6"	Unit 8B	-	-	-	-	20	Pcs	18-05-26			
73	PMSN00088	Calcium Silicate 6" 50mm x 610 mm	Unit 8B	-	-	-	-	50	Batang	18-05-26			
74	PMSN00089	Aluminium Sheet 0.3mm x 1m x 25m	Unit 8B	-	-	-	-	5	Roll	18-05-26			
75	PMSN00090	Packing Klingerit 1000 3mmx1.5mx2m	Unit 8B	-	-	-	-	3	Lembar	18-05-26			
76	IMO16135	Packing Asbes Pita 3mmx50mmx10m	Unit 8B	-	-	-	-	4	Roll	18-05-26			
77	IMO08036	Silicone Red High Temp ThreeBond	Unit 8B	-	-	-	-	20	Pcs	18-05-26			
78	IMO19048	Seal Tape	Unit 8B	-	-	-	-	100	Pcs	18-05-26			
79	IMO02003	Baut Mur Hexa Black Steel Half Drat M16 x 60	Unit 8B	-	-	-	-	200	Pcs	18-05-26			
80	IMO02003	Baut Mur Hexa Black Steel Half Drat M16 x 70	Unit 8B	-	-	-	-	200	Pcs	18-05-26			

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81	IMO02003	Baut Mur Hexa Black Steel Half Drat M16 x 110	Unit 8B	-	-	-	-	100	Pcs	18-05-26			Sesuai Dengan Process & Utility Distribution Unit 8B U0.6 Industrial Steam & Distribution System(6 Ton / 10 Ton) Project Aktivasi Unit 8 (LOCAL)
82	IMO02003	Baut Mur Hexa Black Steel Half Drat M20 x 80	Unit 8B	-	-	-	-	100	Pcs	18-05-26			
83	IMO02003	Baut Mur Hexa Black Steel Half Drat M20 x 100	Unit 8B	-	-	-	-	100	Pcs	18-05-26			
84	IMO18021	Ring Plat Black Steel M20	Unit 8B	-	-	-	-	400	Pcs	18-05-26			
85	IMO18213	Ring Per Black Steel M20	Unit 8B	-	-	-	-	400	Pcs	18-05-26			
86	IMO18021	Ring Plat Black Steel M16	Unit 8B	-	-	-	-	1000	Pcs	18-05-26			
87	IMO18213	Ring Per Black Steel M16	Unit 8B	-	-	-	-	1000	Pcs	18-05-26			
88	IMO19053	Tapping Screw JP PH Kepala Bulat #8 x 1/2"	Unit 8B	-	-	-	-	5000	Pcs	18-05-26			
89	IMO11024	Elektroda Las RD26	Unit 8B	-	-	-	-	10	Box	18-05-26			
90	IMO11024	Elektroda Las LB52	Unit 8B	-	-	-	-	5	Box	18-05-26			
91	IMO13037	Mata Gerinda Cutting WD 4"	Unit 8B	-	-	-	-	300	Pcs	18-05-26			
92	IMO13054	Mata Gerinda Batu Poles Resibon	Unit 8B	-	-	-	-	20	Pcs	18-05-26			
93	IMO05047	Ezzer 45	Unit 8B	-	-	-	-	5	Kaleng	18-05-26			

PERMINTAAN SPAREPART LOCAL INDUSTRIAL STEAM (6 TON / 10 TON) UNTUK PROJECT AKTIVASI UNIT 8

Situasi :

Steam belum bisa sepenuhnya support untuk kebutuhan produksi Unit 8 dikarenakan pipa distribusi steam Boiler 10 Ton belum terinstal. Sehingga belum bisa dilakukan comissioning sistem Boiler 10 Ton, yang nantinya akan digunakan untuk supply steam ke unit 8. Dengan kondisi ini mengakibatkan diperlukan instalasi pipa Boiler 10 Ton untuk support unit 8.

Target :

Memastikan supply steam Boiler 10 Ton memenuhi kebutuhan kerja mesin produksi Unit 8.

Proposal :

Segera melakukan pengadaan komponen yang diperlukan untuk Steam Distribution sesuai dengan list yang tertera.

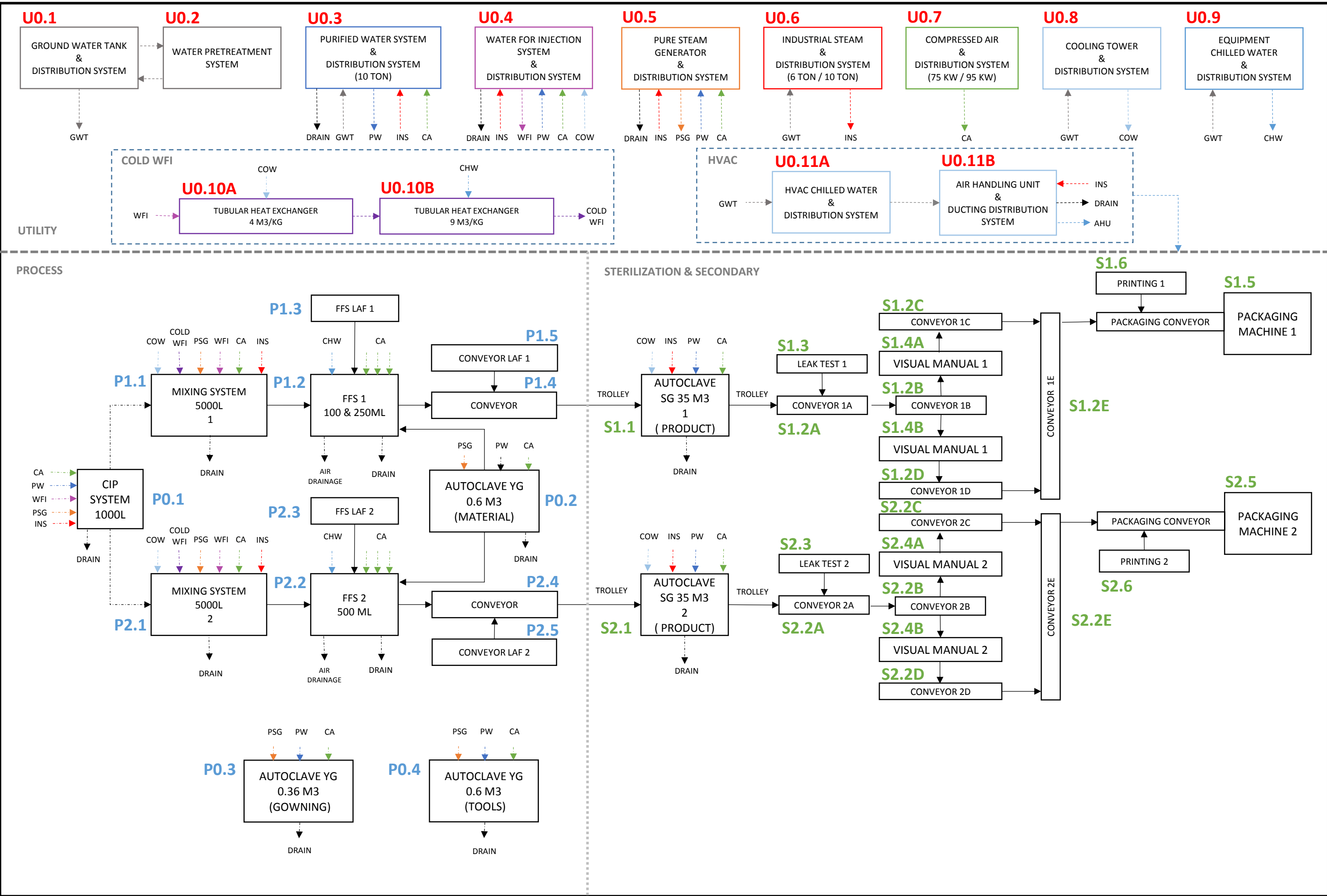
Tanda tangan Pemohon (nama jelas)		Tanda Tangan Mengetahui (nama jelas)		Tanda Tangan Menyetujui (nama jelas)	
 Ajeng Ayu D		 Firman Ardi Busono		 Hermawan Widyaprasetya	

RAB Steam Unit 8

NO	NAMA BARANG	QTY	SATUAN	HARGA	TOTAL
1	Pipa Galvanis Medium 2"	6	Batang	Rp 975,000	Rp5,850,000
2	Pipa Black Steel Seamless SCH40 6"	4	Batang	Rp 3,800,000	Rp15,200,000
3	Pipa Black Steel Seamless SCH40 4"	2	Batang	Rp 2,800,000	Rp5,600,000
4	Pipa Black Steel Seamless SCH40 2"	6	Batang	Rp 1,100,000	Rp6,600,000
5	Pipa Black Steel Seamless SCH40 1"	6	Batang	Rp 700,000	Rp4,200,000
6	Pipa Black Steel Seamless SCH40 1/2"	6	Batang	Rp 400,000	Rp2,400,000
7	Ball Valve Drat Dalam 1000WOG 2"	2	Pcs	Rp 190,000	Rp380,000
8	Ball Valve Drat Dalam PN25 DN20 3/4"	4	Pcs	Rp 110,000	Rp440,000
9	Ball Valve Drat Dalam PN25 DN15 1/2"	12	Pcs	Rp 85,000	Rp1,020,000
10	Ball Valve Flange CI FC DN100 KITZ	1	Pcs	Rp 5,500,000	Rp5,500,000
11	Globe Valve Flange CI DN150 PN16	3	Pcs	Rp 9,500,000	Rp28,500,000
12	Globe Valve Flange CI DN125 PN16	1	Pcs	Rp 8,000,000	Rp8,000,000
13	Globe Valve Flange CI DN100 PN16	2	Pcs	Rp 5,000,000	Rp10,000,000
14	Globe Valve Flange CI DN80 PN16	2	Pcs	Rp 4,300,000	Rp8,600,000
15	Globe Valve Flange CI DN50 PN16	12	Pcs	Rp 2,500,000	Rp30,000,000
16	Globe Valve Flange CI DN40 PN16	1	Pcs	Rp 2,250,000	Rp2,250,000
17	Globe Valve Flange CI DN25 PN16	7	Pcs	Rp 1,150,000	Rp8,050,000
18	Globe Valve Flange CI DN15 PN16	4	Pcs	Rp 1,100,000	Rp4,400,000
19	Blowdown Valve Flange CI DN50 PN16	3	Pcs	Rp 4,000,000	Rp12,000,000
20	Lift Check Valve Flange CI DN150 PN16	1	Pcs	Rp 13,000,000	Rp13,000,000
21	Disc Check Valve Wafer SS DN50 PN40	6	Pcs	Rp 600,000	Rp3,600,000
22	Y Strainer Steam Flange Cast Iron DN50 PN16	4	Pcs	Rp 1,000,000	Rp4,000,000
23	Y Strainer Steam Flange Cast Iron DN25 PN16	1	Pcs	Rp 500,000	Rp500,000
24	Ball Float Steam Trap Flange 1" DN25 PN16 Spirax Sarco	2	Pcs	Rp 4,000,000	Rp8,000,000
25	Flange DIN EN 1092-1 PN25 Raised Face DN150	4	Pcs	Rp 275,000	Rp1,100,000
26	Flange DIN EN 1092-1 PN16 Raised Face DN100	4	Pcs	Rp 165,000	Rp660,000
27	Flange DIN EN 1092-1 PN16 Raised Face DN80	4	Pcs	Rp 150,000	Rp600,000
28	Flange DIN EN 1092-1 PN16 Raised Face DN50	4	Pcs	Rp 115,000	Rp460,000
29	Flange JIS16K Raised Face DN150	6	Pcs	Rp 300,000	Rp1,800,000
30	Flange JIS16K Raised Face DN125	2	Pcs	Rp 200,000	Rp400,000
31	Flange JIS16K Raised Face DN100	8	Pcs	Rp 185,000	Rp1,480,000
32	Flange JIS16K Raised Face DN80	2	Pcs	Rp 160,000	Rp320,000
33	Flange JIS16K Raised Face DN50	26	Pcs	Rp 125,000	Rp3,250,000
34	Flange JIS16K Raised Face DN40	2	Pcs	Rp 85,000	Rp170,000
35	Flange JIS16K Raised Face DN25	12	Pcs	Rp 55,000	Rp660,000
36	Flange JIS16K Raised Face DN15	10	Pcs	Rp 55,000	Rp550,000
37	Blind Flange JIS16K Raised Face DN50	4	Pcs	Rp 135,000	Rp540,000
38	Blind Flange JIS16K Raised Face DN40	2	Pcs	Rp 135,000	Rp270,000
39	Blind Flange JIS16K Raised Face DN25	2	Pcs	Rp 85,000	Rp170,000
40	Elbow 90° Black Steel SCH80 BW-Seamless 6"	6	Pcs	Rp 650,000	Rp3,900,000
41	Elbow 90° Black Steel SCH80 BW-Seamless 4"	2	Pcs	Rp 260,000	Rp520,000
42	Elbow 90° Black Steel SCH80 BW-Seamless 3"	2	Pcs	Rp 150,000	Rp300,000
43	Elbow 90° Black Steel SCH80 BW-Seamless 2"	24	Pcs	Rp 65,000	Rp1,560,000
44	Elbow 90° Black Steel SCH80 BW-Seamless 1,5"	4	Pcs	Rp 25,000	Rp100,000
45	Elbow 90° Black Steel SCH80 BW-Seamless 1"	16	Pcs	Rp 16,000	Rp256,000
46	Elbow 90° Black Steel SCH80 BW-Seamless 1/2"	10	Pcs	Rp 15,000	Rp150,000
47	Elbow 45° Black Steel SCH80 BW-Seamless 1"	4	Pcs	Rp 16,000	Rp64,000

NO	NAMA BARANG	QTY	SATUAN	HARGA	TOTAL
48	Elbow 45° Black Steel SCH80 BW-Seamless 1/2"	4	Pcs	Rp 15,000	Rp60,000
49	Tee Black Steel SCH80 BW-Seamless 2"	12	Pcs	Rp 80,000	Rp960,000
50	Tee Black Steel SCH80 BW-Seamless 1"	4	Pcs	Rp 55,000	Rp220,000
51	Tee Black Steel SCH80 BW-Seamless 1/2"	4	Pcs	Rp 45,000	Rp180,000
52	Tee Reducer Black Steel SCH80 BW-Seamless 2"x1"	2	Pcs	Rp 90,000	Rp180,000
53	Reducer Concentric Black Steel SCH80 BW-Seamless 6" x 5"	1	Pcs	Rp 260,000	Rp260,000
54	Reducer Concentric Black Steel SCH80 BW-Seamless 2" x 1/2"	3	Pcs	Rp 50,000	Rp150,000
55	Socket Drat Dalam Black Steel SCH40 1/2"	20	Pcs	Rp 15,000	Rp300,000
56	Elbow Drat Galvanis 2"	10	Pcs	Rp 60,000	Rp600,000
57	Tee Drat Galvanis 2"	3	Pcs	Rp 70,000	Rp210,000
58	Watermur Galvanis 2"	4	Pcs	Rp 90,000	Rp360,000
59	Spiral Wound Gasket DN150 PN16 6"	10	Pcs	Rp 185,000	Rp1,850,000
60	Spiral Wound Gasket DN125 PN16 5"	2	Pcs	Rp 155,000	Rp310,000
61	Spiral Wound Gasket DN100 PN16 4"	6	Pcs	Rp 125,000	Rp750,000
62	Spiral Wound Gasket DN80 PN16 3"	6	Pcs	Rp 75,000	Rp450,000
63	Spiral Wound Gasket DN50 PN16 2"	30	Pcs	Rp 65,000	Rp1,950,000
64	Spiral Wound Gasket DN40 PN16 1 1/2"	2	Pcs	Rp 40,000	Rp80,000
65	Spiral Wound Gasket DN25 PN16 1"	10	Pcs	Rp 30,000	Rp300,000
66	Spiral Wound Gasket DN15 PN16 1/2"	10	Pcs	Rp 25,000	Rp250,000
67	Besi Siku 50x50x5 mm	5	Batang	Rp 350,000	Rp1,750,000
68	Besi UNP 75x40x5 mm	5	Batang	Rp 400,000	Rp2,000,000
69	Besi Behel 12 mm	8	Batang	Rp 120,000	Rp960,000
70	Long Drat M12 x 1m	10	Batang	Rp 20,000	Rp200,000
71	Dynabolt M12x75	150	Pcs	Rp 3,500	Rp525,000
72	Ubolt+Mur 6"	20	Pcs	Rp 15,000	Rp300,000
73	Calcium Silicate 6" 50mm x 610 mm	50	Batang	Rp 420,000	Rp21,000,000
74	Aluminium Sheet 0.3mm x 1m x 25m	5	Roll	Rp 1,950,000	Rp9,750,000
75	Packing Klingerit 1000 3mmx1.5mx2m	3	Lembar	Rp 900,000	Rp2,700,000
76	Packing Asbes Pita 3mmx50mmx10m	4	Roll	Rp 150,000	Rp600,000
77	Silicone Red High Temp ThreeBond	20	Pcs	Rp 30,000	Rp600,000
78	Seal Tape	100	Pcs	Rp 5,000	Rp500,000
79	Baut Mur Hexa Black Steel Half Drat M16x60	200	Pcs	Rp 8,000	Rp1,600,000
80	Baut Mur Hexa Black Steel Half Drat M16x70	200	Pcs	Rp 8,000	Rp1,600,000
81	Baut Mur Hexa Black Steel Half Drat M16x110	100	Pcs	Rp 10,000	Rp1,000,000
82	Baut Mur Hexa Black Steel Half Drat M20x80	100	Pcs	Rp 16,000	Rp1,600,000
83	Baut Mur Hexa Black Steel Half Drat M20x100	100	Pcs	Rp 16,000	Rp1,600,000
84	Ring Plat Black Steel M20	400	Pcs	Rp 800	Rp320,000
85	Ring Per Black Steel M20	400	Pcs	Rp 1,500	Rp600,000
86	Ring Plat Black Steel M16	1000	Pcs	Rp 600	Rp600,000
87	Ring Per Black Steel M16	1000	Pcs	Rp 1,000	Rp1,000,000
88	Tapping Screw JP PH Kepala Bulat #8 x 1/2"	5000	Pcs	Rp 100	Rp500,000
89	Elektroda Las RD26	10	Box	Rp 70,000	Rp700,000
90	Elektroda Las LB52	5	Box	Rp 450,000	Rp2,250,000
91	Mata Gerinda Cutting WD 4"	300	Pcs	Rp 3,000	Rp900,000
92	Mata Gerinda Batu Poles Resibon	20	Pcs	Rp 15,000	Rp300,000
93	Ezzer 45	5	Kaleng	Rp 85,000	Rp425,000
TOTAL					Rp272,670,000

PROCESS & UTILITY DISTRIBUTION - UNIT 8B



Piping Safety Valve
(4 inch @ 5 Meter)

Piping Steam
(6 inch)

Economizer

Boiler 10 Ton

Piping Blowdown
(2 inch)

Pump

Piping Input Water
(2 inch)

Boiler 10 Ton

Boiler 10 Ton