

Purchase Requisition (PR)

Requisition Number	PF001409	Created at	09 Jul 2026 16:51
Requested By	ELVINA FITRISIA	Cost Center	Biovac
Priority	Very Urgent	Status	In process

Requested Items

No	Item Number	Description	Qty	Due Date
1	IMO16060	Pipa Pipe Seamless 8" SCH 20 SUS 304 1 batang = 6 meter	2 bg	2026-09-18
2	IMO16060	Pipa Pipe Seamless 2 1/2" SCH 20 SUS 304 1 batang = 6 meter	13 bg	2026-09-18
3	IMO16060	Pipa Pipe Seamless 1 1/2" SCH 20 SUS 304 1 batang = 6 meter	9 bg	2026-09-18
4	IMO16060	Pipa Pipe Seamless 1" SCH 20 SUS 304 1 batang = 6 meter	22 bg	2026-09-18
5	IMO16060	Pipa Pipe Seamless 3/4" SCH 20 SUS 304 1 batang = 6 meter	6 bg	2026-09-18
6	IMO16060	Pipa Pipe Seamless 1/2" SCH 20 SUS 304 1 batang = 6 meter	26 bg	2026-09-18
7	IMO16060	Pipa Pipe Seamless 1 1/2" SCH 20 SUS 316 1 batang = 6 meter	11 bg	2026-09-18
8	IMO16060	Pipa Pipe Seamless 1" SCH 20 SUS 316 1 batang = 6 meter	13 bg	2026-09-18
9	IMO16060	Pipa Pipe Seamless 3/4" SCH 20 SUS 316 1 batang = 6 meter	10 bg	2026-09-18
10	IMO16060	Pipa Pipe Seamless 1/2" SCH 20 SUS 316 1 batang = 6 meter	8 bg	2026-09-18
11	PIDC00295	Nepple Pipe Nepple Drat 1/2" 20cm SS304	14 Pc	2026-09-18
12	IMO02112	Besi UNP Besi UNP 100 x 50 x 5 x 6 m	6 Pc	2026-09-18
13	IMO02138	Blind Flange Blind Flange 8" SCH 20 SS304 JIS10K	10 Pc	2026-09-18
14	IMO02138	Blind Flange Blind Flange 1 1/2" JIS 10K SS304	1 Pc	2026-09-18
15	IMO02138	Blind Flange Blind Flange 1" JIS 10K SS304	1 Pc	2026-09-18
16	IMO02138	Blind Flange Blind Flange 1 1/2" JIS 10K SS316	1 Pc	2026-09-18
17	IMO02138	Blind Flange Blind Flange 1" JIS 10K SS316	1 Pc	2026-09-18

No	Item Number	Description	Qty	Due Date
18	IMO06074	Flange Flange 2 1/2" JIS 10K SS304	2 Pc	2026-09-18
19	IMO06074	Flange Flange 1 1/2" JIS 10K SS304	1 Pc	2026-09-18
20	IMO06074	Flange Flange 1" JIS 10K SS304	1 Pc	2026-09-18
21	IMO06074	Flange Flange 1 1/2" JIS 10K SS316	1 Pc	2026-09-18
22	IMO06074	Flange Flange 1" JIS 10K SS316	1 Pc	2026-09-18
23	IMO02120	Ball Valve SS Ball valve 1/2" Thread SS304	33 Pc	2026-09-18
24	IMO02120	Ball Valve SS Ball valve 2 1/2" Thread SS304 1000WOG	44 Pc	2026-09-18
25	IMO02120	Ball Valve SS Ball valve 1 1/2" Thread SS304 1000WOG	5 Pc	2026-09-18
26	IMO02120	Ball Valve SS Ball Valve 1" Thread SS304	10 Pc	2026-09-18
27	IMO02120	Ball Valve SS Ball Valve 3/4" SS304	3 Pc	2026-09-18
28	IMO02120	Ball Valve SS Ball Valve 1/2" SS304	4 Pc	2026-09-18
29	IMO02120	Ball Valve SS Ball Valve 1.5" Thread SS316	1 Pc	2026-09-18
30	IMO02120	Ball Valve SS Ball Valve 1" Thread SS316	22 Pc	2026-09-18
31	IMO02120	Ball Valve SS Ball Valve 3/4" Thread SS316	2 Pc	2026-09-18
32	IMO02120	Ball Valve SS Ball Valve 1/2" SS316	24 Pc	2026-09-18
33	IMO18069	Reducer Reducer 4" x 2 1/2" SS304	6 Pc	2026-09-18
34	IMO18069	Reducer Reducer 1.5" x 3/4" SCH 20 DRAT SS304	1 Pc	2026-09-18
35	IMO18069	Reducer Reducer 1" x 1/2" SS304	8 Pc	2026-09-18
36	IMO18069	Reducer Reducer 1.5" x 3/4" SCH 20 DRAT SS316	1 Pc	2026-09-18
37	ATSP01023	Tee Reducer Tee reducer 2 1/2" x 1" x 2 1/2" SS304	8 Pc	2026-09-18
38	ATSP01023	Tee Reducer Tee Reducer 1.5" x 3/4" DRAT SS304	3 Pc	2026-09-18
39	ATSP01023	Tee Reducer Tee Reducer 1.5" x 1/2" DRAT SS304	4 Pc	2026-09-18

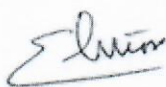
No	Item Number	Description	Qty	Due Date
40	ATSP01023	Tee Reducer Tee Reducer 1.5" x 1" DRAT SS304	3 Pc	2026-09-18
41	ATSP01023	Tee Reducer Tee Reducer 1.5" x 3/4" DRAT SS316	2 Pc	2026-09-18
42	ATSP01023	Tee Reducer Tee Reducer 1.5" x 1/2" DRAT SS316	2 Pc	2026-09-18
43	ATSP01023	Tee Reducer Tee Reducer 1.5" x 1" DRAT SS316	5 Pc	2026-09-18
44	ATSP01023	Tee Reducer Tee Reducer 3/4" x 1/2" SCH 20 DRAT SS304	4 Pc	2026-09-18
45	ATSP01023	Tee Reducer Tee Reducer 1" x 3/4" SCH 20 DRAT SS304	4 Pc	2026-09-18
46	ATSP01023	Tee Reducer Tee Reducer 1" x 1/2" SCH 20 DRAT SS304	5 Pc	2026-09-18
47	ATSP01023	Tee Reducer Tee Reducer 3/4" x 1/2" SCH 20 DRAT SS316	4 Pc	2026-09-18
48	ATSP01023	Tee Reducer Tee Reducer 1" x 3/4" SCH 20 DRAT SS316	3 Pc	2026-09-18
49	ATSP01023	Tee Reducer Tee Reducer 1" x 1/2" SCH 20 DRAT SS316	8 Pc	2026-09-18
50	IMO20137	Tee SS Tee 1/2" Thread SS304	14 Pc	2026-09-18
51	IMO20137	Tee SS Tee 2 1/2" SCH20 SS304	2 Pc	2026-09-18
52	IMO20137	Tee SS Tee 1/2" SCH 20 SS04	1 Pc	2026-09-18
53	IMO20137	Tee SS Tee 1/2" SS316	16 Pc	2026-09-18
54	IMO20137	Tee SS Tee 1" SS316	14 Pc	2026-09-18
55	IMO20137	Tee SS Tee Drat 1/2" SS304	4 Pc	2026-09-18
56	IMO20137	Tee SS Tee Drat 3/4" SS304	2 Pc	2026-09-18
57	IMO20137	Tee SS Tee Drat 1" SS304	7 Pc	2026-09-18
58	IMO20137	Tee SS Equal Tee 1.5" SCH 20 SS304	4 Pc	2026-09-18
59	IMO20137	Tee SS Equal Tee 1" SCH 20 SS304	3 Pc	2026-09-18
60	IMO20137	Tee SS Equal Tee 3/4" DRAT SS304	3 Pc	2026-09-18
61	IMO20137	Tee SS Equal Tee 1/2" DRAT SS304	3 Pc	2026-09-18

No	Item Number	Description	Qty	Due Date
62	IMO20137	Tee SS Equal Tee 1.5" SCH 20 SS316	2 Pc	2026-09-18
63	IMO20137	Tee SS Equal Tee 3/4" DRAT SS316	3 Pc	2026-09-18
64	IMO20137	Tee SS Equal Tee 1/2" DRAT SS316	3 Pc	2026-09-18
65	IMO05081	Elbow SS 304 Elbow 1/2" SCH 20 SS304	3 Pc	2026-09-18
66	IMO05081	Elbow SS 304 Elbow 2" SCH 20 SS304	6 Pc	2026-09-18
67	IMO05081	Elbow SS 304 Elbow 1.5" SCH 20 SS304	19 Pc	2026-09-18
68	IMO05081	Elbow SS 304 Elbow 1" SCH 20 SS304	10 Pc	2026-09-18
69	IMO05081	Elbow SS 304 Elbow 3/4" DRAT SS304	7 Pc	2026-09-18
70	IMO05081	Elbow SS 304 Elbow 1/2" DRAT SS304	25 Pc	2026-09-18
71	IMO05078	Elbow SS 316 Elbow 1.5" SCH 20 SS316	5 Pc	2026-09-18
72	IMO05078	Elbow SS 316 Elbow 1" SCH 20 SS316	10 Pc	2026-09-18
73	IMO05078	Elbow SS 316 Elbow 3/4" DRAT SS316	7 Pc	2026-09-18
74	IMO05078	Elbow SS 316 Elbow 1/2" DRAT SS316	15 Pc	2026-09-18
75	IMO05081	Elbow SS 304 Elbow 1/2" Thread SS304	8 Pc	2026-09-18
76	IMO05081	Elbow SS 304 Elbow 2 1/2" SCH20 SS304	33 Pc	2026-09-18
77	IMO19171	Sok Drat Dalam Sock Drat Dalam 1/2" SS304	23 Pc	2026-09-18
78	PMSN00055	Vlok Ring Vlok Ring 3/4" x 1/2" SS304	2 Pc	2026-09-18
79	PMSN00055	Vlok Ring Vlok Ring 1" x 1/2" SS304	7 Pc	2026-09-18
80	IMO08089	High Pressure Regulator Pressure Regulator 3 Bar	5 St	2026-09-18
81	IMO16007	Pressure Gauge Pressure Gauge Connection 1/2" Wiebrock 0 - 10 Bar	47 Pc	2026-09-18
82	ATSP01020	Temperature Gauge Temperature Gauge Connection 1/2" Wiebrock	5 Pc	2026-09-18
83	ATSP01051	Ferrule Sanitary FERRULE SANITARY SS304L 1" x 1" DRAT DALAM	4 Pc	2026-09-18

No	Item Number	Description	Qty	Due Date
84	ATSP01051	Ferrule Sanitary FERRULE SANITARY SS304L 1" x 3/4" DRAT DALAM	1 Pc	2026-09-18
85	ATSP01051	Ferrule Sanitary FERRULE SANITARY SS304L 1" x 1/2" DRAT DALAM	12 Pc	2026-09-18
86	ATSP01051	Ferrule Sanitary FERRULE SANITARY SS316L 1" x 1" DRAT DALAM	4 Pc	2026-09-18
87	ATSP01051	Ferrule Sanitary FERRULE SANITARY SS316L 1" x 3/4" DRAT DALAM	1 Pc	2026-09-18
88	ATSP01051	Ferrule Sanitary FERRULE SANITARY SS316L 1" x 1/2" DRAT DALAM	12 Pc	2026-09-18
89	IMO03083	Clamp Ferrule Clamp Ferrule SS304 1 - 1 1/2"	30 Pc	2026-09-18
90	IMO03083	Clamp Ferrule Clamp Ferrule SS316 1 - 1 1/2"	30 Pc	2026-09-18
91	IMO03083	Clamp Ferrule Clamp Ferrule 1"	20 Pc	2026-09-18
92	IMO03083	Clamp Ferrule Clamp Ferrule 2 1/2" SS304	12 Pc	2026-09-18
93	IMO03393	Clamp Pipa Holder Clamp Pipa Holder Sanitary SS 304 1"	10 Pc	2026-09-18
94	IMO03393	Clamp Pipa Holder Clamp Pipa Holder Sanitary SS 304 3/4"	4 Pc	2026-09-18
95	IMO03393	Clamp Pipa Holder Clamp Pipa Holder Sanitary SS 304 1/2"	24 Pc	2026-09-18
96	ATSP01052	Seal Gasket Seal Gasket Teflon Tri Clamp Ferrule 1"	120 Pc	2026-09-18
97	IMO12167	Long Drat Long Drat M10 x 3 meter Galvanis	400 bg	2026-09-18
98	IPT00033	Klem Klem gantung pipa 1 1/2"	200 Pc	2026-09-18
99	IPT00033	Klem Klem gantung pipa 1"	100 Pc	2026-09-18
100	IPT00033	Klem Klem gantung pipa 3/4"	100 Pc	2026-09-18
101	PMSN00129	Dynaset Dynaset M10	400 Pc	2026-09-18
102	IMO04008	Dyna bolt Dynabolt M10	20 Pc	2026-09-18
103	ATSP01053	Baut + Mur + Ring Baut M16 x 100 mm + Mur + Ring 2 SS304	80 St	2026-09-18
104	PMSN00127	Gasket Gasket Packing Flange 4" EPDM	12 Pc	2026-09-18
105	PMSN00127	Gasket Gasket Packing Flange 1,5" EPDM	10 Pc	2026-09-18

No	Item Number	Description	Qty	Due Date
106	ATSP00973	Ubolt U-Bolt 2 1/2" x M8 SS 304	30 Pc	2026-09-18
107	PGDG00301	Siku galvanis Siku 50 x 50 x 2,3 mm Galvanis	5 Bg	2026-09-18
108	IMO19693	Sanitary Filter Element Sanitary Air Filter 10" Element 0,22 um sterile grade	13 Pc	2026-09-18
109	IMO19692	Sanitary Filter Housing Sanitary Air Filter Housing 10" SS316 Clamp Ferrule 1" Connection	13 Pc	2026-09-18
110	IMO13037	Mata Gerinda Potong Mata Gerinda Potong 14"	7 Pc	2026-09-18
111	IMO02106	Batu Gerinda Mata Gerinda Batu 4" kebutuhan 5 kotak @ 20 pcs	100 Pc	2026-09-18
112	ATSP00945	Kawat Las Kawat Las SS304 E308 2mm nikko steel kebutuhan 5 kg	5 PX	2026-09-18
113	ATSP00945	Kawat Las Kawat Las SS316 NSN-316 2mm nikko steel kebutuhan 5 kg	5 PX	2026-09-18
114	ATSP00945	Kawat Las Kawat las TIG / filler rod ER304 kebutuhan 3 kg	3 PX	2026-09-18
115	ATSP00945	Kawat Las Kawat las TIG / filler rod ER316L kebutuhan 3 kg	3 PX	2026-09-18
116	IPT00004	Amplas Amplas 150	1 Ro	2026-09-18
117	IMO13042	Mata Bor Beton Mata Bor Beton 10 mm	3 Pc	2026-09-18
118	IMO07008	Gas Argon 6m3 Gas Argon : 6 m3 x 2	2 tb	2026-09-18
119	IMO19048	Seal Tape Onda Seal tape 1/2" kebutuhan 2 kotak @72 pcs	144 Pc	2026-09-18

The document is electronically submitted and approved by:



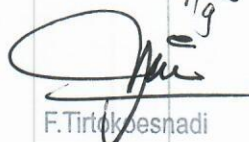
ELVINA FITRISIA
09 Jul 2026 16:51



DYAH ARUM MULYANINGSIH
13 Jul 2026 16:05



MATTHEW YAP
14 Jul 2026 11:45

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F. Tirtokoesnadi

Approval History

Name	Status	Comment
ELVINA FITRISIA 09 Jul 2026 16:51	Submitted	Pembelian material untuk instalasi pipa compressed air. Compressed air sudah dibeli dari DenAir. Namun tidak termasuk dengan pipa distribusi.
DYAH ARUM MULYANINGSIH 13 Jul 2026 16:05	Approved	urgent for machine installation supporting utility system
MATTHEW YAP 14 Jul 2026 11:45	Approved	—
F. TIRTOKOESNADI 05 Aug 2026 18:39	Rejected	Berdasarkan hasil meeting Ibu Arum dengan Pak Tirta 4 Agustus, item yang diajukan untuk dibeli akan ada perubahan.
DYAH ARUM MULYANINGSIH 04 Sep 2026 14:58	Approved	Quantity material sudah sesuai hasil diskusi
MATTHEW YAP 06 Sep 2026 20:59	Approved	Purchasing saya agak bingung, bisa lihat ada SPB mirip ini? Karena saya ingat sudah approve SPB untuk bahan ini atau mirip ini. Kalo dua daunnya untuk project sama tolong konfirmasi dengan bu Arum benar ada dua SPB atau seharusnya satu? Terima kasih

RAB Material ICA & PCA Piping Rev3

Project : Black Utility Mersi Biovac Proindo

SUPPORT MATERIAL - AIR COMPRESSOR ROOM - ICA & PCA MATERIAL - FILTER STERILE

No.	Description / Material	Total Qty	Satuan
A. Pipa			
1	Pipe Seamless 8" SCH 20 SS304	2	Btg
2	Pipe Seamless 2 1/2" SCH 20 SS304	13	Btg
3	Pipe Seamless 1 1/2" SCH 20 SS304	9	Btg
4	Pipe Seamless 1" SCH 20 SS304	22	Btg
5	Pipe Seamless 3/4" SCH 20 SS304	6	Btg
6	Pipa Seamless 1/2" SCH 20 SS304	26	Btg
7	Pipe Seamless 1 1/2" SCH 20 SS316	11	Btg
8	Pipe Seamless 1" SCH 20 SS316	13	Btg
9	Pipe Seamless 3/4" SCH 20 SS316	10	Btg
10	Pipe Seamless 1/2" SCH 20 SS316	8	Btg
11	Pipe Nepple Drat 1/2" 20cm SS304	14	Pc
12	Besi UNP 100 x 50 x 5 x 6 m	6	Btg
B. Fitting & Aksesoris			
1	Blind Flange 8" SCH 20 SS304 JIS10K	10	Pc
2	Blind Flange 1 1/2" JIS 10K SS304	1	Pc
3	Blind Flange 1" JIS 10K SS304	1	Pc
4	Blind Flange 1 1/2" JIS 10K SS316	1	Pc
5	Blind Flange 1" JIS 10K SS316	1	Pc
6	Flange 2 1/2" JIS 10K SS304	2	Pc
7	Flange 1 1/2" JIS 10K SS304	1	Pc
8	Flange 1" JIS 10K SS304	1	Pc
9	Flange 1 1/2" JIS 10K SS316	1	Pc
10	Flange 1" JIS 10K SS316	1	Pc
11	Ball valve 1/2" Thread SS304	33	Pc
12	Ball valve 2 1/2" Thread SS304 1000WOG	44	Pc
13	Ball valve 1 1/2" Thread SS304 1000WOG	5	Pc
14	Ball Valve 1" Thread SS304	10	Pc
15	Ball Valve 3/4" SS304	3	Pc
16	Ball Valve 1/2" SS304	4	Pc
17	Ball Valve 1.5" Thread SS316	1	Pc
18	Ball Valve 1" Thread SS316	22	Pc
19	Ball Valve 3/4" Thread SS316	2	Pc
20	Ball Valve 1/2" SS316	24	Pc
21	Reducer 4" x 2 1/2" SS304	6	Pc
22	Reducer 1.5" x 3/4" SCH 20 DRAT SS304	1	Pc
23	Reducer 1" x 1/2" SS304	8	Pc
24	Reducer 1.5" x 3/4" SCH 20 DRAT SS316	1	Pc
25	Tee reducer 2 1/2" x 1" x 2 1/2" SS304	8	Pc
26	Tee Reducer 1.5" x 3/4" DRAT SS304	3	Pc
27	Tee Reducer 1.5" x 1/2" DRAT SS304	4	Pc
28	Tee Reducer 1.5" x 1" DRAT SS304	3	Pc
29	Tee Reducer 1.5" x 3/4" DRAT SS316	2	Pc
30	Tee Reducer 1.5" x 1/2" DRAT SS316	2	Pc
31	Tee Reducer 1.5" x 1" DRAT SS316	5	Pc

RAB Material ICA & PCA Piping Rev3

Project : Black Utility Mersi Biovac Proindo

SUPPORT MATERIAL - AIR COMPRESSOR ROOM - ICA & PCA MATERIAL - FILTER STERILE

No.	Description / Material	Total Qty	Satuan
32	Tee Reducer 3/4" x 1/2" SCH 20 DRAT SS304	4	Pc
33	Tee Reducer 1" x 3/4" SCH 20 DRAT SS304	4	Pc
34	Tee Reducer 1" x 1/2" SCH 20 DRAT SS304	5	Pc
35	Tee Reducer 3/4" x 1/2" SCH 20 DRAT SS316	4	Pc
36	Tee Reducer 1" x 3/4" SCH 20 DRAT SS316	3	Pc
37	Tee Reducer 1" x 1/2" SCH 20 DRAT SS316	8	Pc
38	Tee 1/2" Thread SS304	14	Pc
39	Tee 2 1/2" SCH20 SS304	2	Pc
40	Tee 1/2" SCH 20 SS04	1	Pc
41	Tee 1/2" SS316	16	
42	Tee 1" SS316	14	
43	Tee Drat 1/2" SS304	4	Pc
44	Tee Drat 3/4" SS304	2	Pc
45	Tee Drat 1" SS304	7	Pc
46	Equal Tee 1.5" SCH 20 SS304	4	Pc
47	Equal Tee 1" SCH 20 SS304	3	Pc
48	Equal Tee 3/4" DRAT SS304	3	Pc
49	Equal Tee 1/2" DRAT SS304	3	Pc
50	Equal Tee 1.5" SCH 20 SS316	2	Pc
51	Equal Tee 3/4" DRAT SS316	3	Pc
52	Equal Tee 1/2" DRAT SS316	3	Pc
53	Elbow 1/2" SCH 20 SS304	3	Pc
54	Elbow 2" SCH 20 SS304	6	Pc
55	Elbow 1.5" SCH 20 SS304	19	Pc
56	Elbow 1" SCH 20 SS304	10	Pc
57	Elbow 3/4" DRAT SS304	7	Pc
58	Elbow 1/2" DRAT SS304	25	Pc
59	Elbow 1.5" SCH 20 SS316	5	Pc
60	Elbow 1" SCH 20 SS316	10	Pc
61	Elbow 3/4" DRAT SS316	7	Pc
62	Elbow 1/2" DRAT SS316	15	Pc
63	Elbow 1/2" Thread SS304	8	Pc
64	Elbow 2 1/2" SCH20 SS304	33	Pc
65	Sock Drat Dalam 1/2" SS304	23	Pc
66	Vlok Ring 3/4" x 1/2" SS304	2	Pc
67	Vlok Ring 1" x 1/2" SS304	7	Pc
68	Pressure Regulator 3 Bar	5	Pc
69	Pressure Gauge Connection 1/2" Wiebrock 0 - 10 Bar	47	Pc
70	Temperature Gauge Connection 1/2" Wiebrock	5	Pc
71	FERRULE SANITARY SS304L 1" x 1" DRAT DALAM	4	Pc
72	FERRULE SANITARY SS304L 1" x 3/4" DRAT DALAM	1	Pc
73	FERRULE SANITARY SS304L 1" x 1/2" DRAT DALAM	12	Pc
74	FERRULE SANITARY SS316L 1" x 1" DRAT DALAM	4	Pc
75	FERRULE SANITARY SS316L 1" x 3/4" DRAT DALAM	1	Pc
76	FERRULE SANITARY SS316L 1" x 1/2" DRAT DALAM	12	Pc

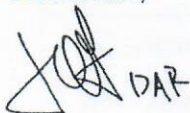
RAB Material ICA & PCA Piping Rev3

Project : Black Utility Mersi Biovac Proindo

SUPPORT MATERIAL - AIR COMPRESSOR ROOM - ICA & PCA MATERIAL - FILTER STERILE

No.	Description / Material	Total Qty	Satuan
77	Clamp Ferrule SS304 1 - 1 1/2"	30	Pc
78	Clamp Ferrule SS316 1 - 1 1/2"	30	Pc
79	Clamp Ferrule 1"	20	Pc
80	Clamp Ferrule 2 1/2" SS304	12	Pc
81	Clamp Pipa Holder Sanitary SS 304 1"	10	Pc
82	Clamp Pipa Holder Sanitary SS 304 3/4"	4	Pc
83	Clamp Pipa Holder Sanitary SS 304 1/2"	24	Pc
84	Seal Gasket Teflon Tri Clamp Ferrule 1"	120	Pc
85	Long Drat M10 x 3 meter Galvanis	400	Pc
86	Klem gantung pipa 1 1/2"	200	Pc
87	Klem gantung pipa 1"	100	Pc
88	Klem gantung pipa 3/4"	100	Pc
89	Dynaset M10	400	Pc
90	Dynabolt M10	20	Pc
91	Baut M16 x 100 mm + Mur + Ring 2 SS304	80	Pc
92	Gasket Packing Flange 4" EPDM	12	Pc
93	Gasket Packing Flange 1,5" EPDM	10	Pc
94	U-Bolt 2 1/2" x M8 SS 304	30	Pc
95	Siku 50 x 50 x 2,3 mm Galvanis	5	Btg
C. Filter Steril 0,22 um			
1	Sanitary Air Filter 10" Element 0,22 um sterile grade	13	Pc
2	Sanitary Air Filter Housing 10" SS316 Clamp Ferrule 1" Connection	13	Pc
D. Consumable alat kerja			
1	Mata Gerinda Potong 14"	7	pcs
2	Mata Gerinda Batu 4"	5	Kotak
3	Kawat Las SS304 E308 2mm nikko steel	5	Kg
4	Kawat Las SS316 NSN-316 2mm nikko steel	5	Kg
5	Kawat las TIG / filler rod ER304	3	kg
6	Kawat las TIG / filler rod ER316L	3	kg
7	Amplas 150	1	Roll
8	Mata Bor Beton 10 mm	3	Pc
9	Gas Argon	2	Tabung
10	Sealtape 1/2"	2	kotak

Dibuat oleh,

 DARI

Diki Alamsyah
SPV Civil & Project

Diperiksa oleh,

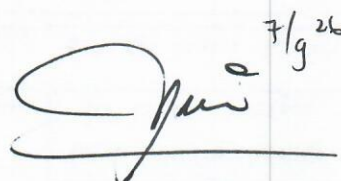


Bayu Seto Respati
Engineering Manager

Disetujui oleh,



Dyah Arum M.
Site Head

 7/9²⁶

F. Tirtokoesnadi