



**PROJECT: EXPANSION OF 40,000M³ STORAGE CAPACITY AT PETEC HAI PHONG
MTO OF PIPE & FITTINGS FOR PIPING AND TANK (BATCH 02)**



No.	NAME	SPECIFICATION	SIZE 1	SIZE 2	SIZE 3	DESCRIPTION	MATERIAL	UNIT	TOTAL Q.TY	Weight (Kg)	REMARK
I. Process System											
1	ELBOW	1A1	100	100	0	ELBOW 90DEG LR BW SCH40 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	8		
2	BLIND FLANGE	1A1	100	100	0	BLIND FLANGE #150 RF ASME B16.5 ASTM A105N	A105N	Pcs	4		
3	BLIND FLANGE	1A1	150	150	0	BLIND FLANGE #150 RF ASME B16.5 ASTM A105N	A105N	Pcs	2		
4	BLIND FLANGE	1A1	200	200	0	BLIND FLANGE #150 RF ASME B16.5 ASTM A105N	A105N	Pcs	1		
5	FLANGE	1A1	100	100	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	8		
6	FLANGE	1A1	200	200	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	1		
7	REDUCER	1A1	150	100	0	CONCENTRIC REDUCER BW SCH40 ASME B16.9 ASTM A234 WBP	A234 GR.WPB	Pcs	8		
8	E-TEE	1A1	150	150	150	TEE SMLS BW SCH40 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	2		
9	E-TEE	1A1	200	200	200	TEE SMLS BW SCH20 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	1		
10	PIPE	1A1	150	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	10		
II. Fire Fighting System											
1	ELBOW	1A2	100	100	0	ELBOW 90DEG LR BW SCH40 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	2		
2	FLANGE	1A2	100	100	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	4		
3	REDUCER	1A2	100	50	0	CONCENTRIC REDUCER BW SCH40 ASME B16.9 ASTM A234 WBP	A234 GR.WPB	Pcs	1		
4	REDUCER	1A2	150	65	0	ECCENTRIC REDUCER SMLS BW SCH40 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	1		
5	REDUCER	1A2	250	125	0	ECCENTRIC REDUCER SMLS BW SCH40 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	2		
6	REDUCER	1A2	200	100	0	CONCENTRIC REDUCER BW SCH40 ASME B16.9 ASTM A234 WBP	A234 GR.WPB	Pcs	2		
III. Piping for Tank											
1	PIPE		25	0	0	PIPE SMLS BE SCH80 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	19.44	
2	PIPE		40	0	0	PIPE SMLS BE SCH80 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	32.46	
3	PIPE		50	0	0	PIPE SMLS BE SCH80 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	44.88	
4	PIPE		50	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A53 GR.B	A53 GR.B	m	390	2,121.60	
5	PIPE		80	0	0	PIPE SMLS BE SCH160 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	128.10	
6	PIPE		80	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A53 GR.B	A53 GR.B	m	390	4,403.10	
7	PIPE		100	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	84	1,350.72	
8	PIPE		100	0	0	PIPE SMLS BE SCH80 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	120	2,678.40	
9	PIPE		100	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A53 GR.B	A53 GR.B	m	228	3,666.24	
10	PIPE		150	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	84	2,373.84	
11	PIPE		150	0	0	PIPE SMLS BE SCH80 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	255.36	
12	PIPE		200	0	0	PIPE SMLS BE SCH80 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	387.84	
13	PIPE		200	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	84	3,574.20	
14	PIPE		250	0	0	PIPE SMLS BE SCH40 ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	361.74	
15	PIPE		250	0	0	PIPE SMLS BE SCHXS ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	18	1,467.54	
16	PIPE		300	0	0	PIPE SMLS BE SCHXS ASME B36.10M ASTM A106 GR.B	A106 GR.B	m	6	584.64	
17	FLANGE		25	0	0	FLANGE SW-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	4		
18	FLANGE		40	0	0	FLANGE SW-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	16		
19	FLANGE		50	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	18		
20	FLANGE		80	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	18		
21	FLANGE		100	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	71		
22	FLANGE		150	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	14		
23	FLANGE		200	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	8		
24	FLANGE		250	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	9		
25	FLANGE		300	0	0	FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	9		
26	THREAD FLANGE		250	0	0	THREAD FLANGE SO-RF #150 ASME B16.5 ASTM A105N	A105N	Pcs	4		
27	BLIND FLANGE		50	0	0	BLIND FLANGE #150 RF ASME B16.5 ASTM A105N	A105N	Pcs	16		
28	BLIND FLANGE		80	0	0	BLIND FLANGE #150 RF ASME B16.5 ASTM A105N	A105N	Pcs	16		



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29	NIPPLE		10	0	0	ASTM A105 Carbon Steel Weld End × Thread End Nipple, 1/2", L = 50 mm	A234 GR.WPB	Pcs	200		
30	NIPPLE		8	0	0	ASTM A105 Carbon Steel Weld End × Thread End Nipple, 1/4", L = 50 mm	A234 GR.WPB	Pcs	200		
31	ELBOW		80	0	0	ELBOW 90DEG LR BW SCH160 ASME B16.9 ASTM A106 GR.B	A106 GR.B	Pcs	1		
32	ELBOW		100	0	0	ELBOW 45DEG LR BW SCH40 ASME B16.9 ASTM A106 GR.B	A106 GR.B	Pcs	32		
33	ELBOW		100	0	0	ELBOW 45DEG LR BW SCH80 ASME B16.9 ASTM A106 GR.B	A106 GR.B	Pcs	8		
34	ELBOW		100	0	0	ELBOW 90DEG LR BW SCH80 ASME B16.9 ASTM A106 GR.B	A106 GR.B	Pcs	8		
35	ELBOW		150	0	0	ELBOW 180DEG LR BW SCH80 ASME B16.9 ASTM A106 GR.B	A106 GR.B	Pcs	1		
36	E-TEE		100	100	100	TEE SMLS BW SCH40 ASME B16.9 ASTM A234 Gr. WPB	A234 GR.WPB	Pcs	8		
37	REDUCER		100	50	0	CONCENTRIC REDUCER 4"x2" BW SCH40 ASME B16.9 ASTM A234 WBP	A234 GR.WPB	Pcs	8		
38	REDUCER		100	80	0	CONCENTRIC REDUCER 4"x3" BW SCH40 ASME B16.9 ASTM A234 WBP	A234 GR.WPB	Pcs	16		
39	REDUCER		250	200	0	CONCENTRIC REDUCER 10"x8" BW SCH80 ASME B16.9 ASTM A234 WBP	A234 GR.WPB	Pcs	4		