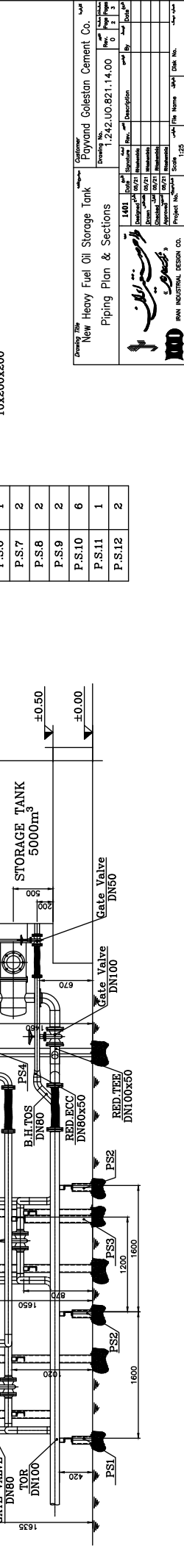


P.S. NO.	Qty.
P.S1	2
P.S2	2
P.S3	1
P.S4	1
P.S5	1
P.S6	1
P.S7	2
P.S8	2
P.S9	2
P.S10	6
P.S11	1
P.S12	2




Description:

New Heavy Fuel Oil Storage Tank Piping Plan Material List

Rev.: 0

Page: 1 of 3

No.	Description	Size	Standard	Rate	Material	Unit	Qty.	Unit Weight	Total Weight
1	Gate Valve	DN 15	API602	Class 800	A105-SW	Pcs	9	1.87	17
		DN 20	API602	Class 800	A105-SW	Pcs	11	2.00	22
		DN 50	ANSI B16.10	Class 150	A 216.WCB-Flgd	Pcs	5	18.00	90
		DN 80	ANSI B16.10	Class 150	A 216.WCB-Flgd	Pcs	5	30.00	150
		DN 100	ANSI B16.10	Class 150	A 216.WCB-Flgd	Pcs	2	50.00	100
		DN 150	ANSI B16.10	Class150	A 216.WCB-Flgd	Pcs	3	85.00	255
2	Check Valve	DN 50	ANSI B16.10	Class150	A 216.WCB-Flgd	Pcs	1	15	15
		DN 150	ANSI B16.10	Class150	A 216.WCB-Flgd	Pcs	1	75	75
3	3 Way Motorized Shutt Off Valve 10bar,250°C,24V	DN 50	ANSI B16.10	Class 150	Acc. To Detail	Pcs	2	-	-
4	Elbow 90°	DN 20	ANSI B16.11	Class 3000	A105-SW	Pcs	16	0.45	7
		DN 50	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	19	0.65	12
		DN 80	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	12	2.03	24
		DN 100	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	5	3.90	20
		DN 150	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	12	10.20	122
		DN 200	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	3	20.30	61
5	Elbow 45°	DN 50	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	6	0.32	2
		DN 80	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	5	1.20	6
		DN 100	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	4	1.95	8
		DN 150	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	9	5.10	46
		DN 200	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	2	11.50	23
6	Flange (W.N)	DN 40	ANSI B16.5	Class 150	A 105	Pcs	2	1.7	3
		DN 50	ANSI B16.5	Class 150	A 105	Pcs	13	2.6	34
		DN 80	ANSI B16.5	Class 150	A 105	Pcs	10	4.9	49
		DN 100	ANSI B 16.5	Class 150	A 105	Pcs	5	6.8	34
		DN 150	ANSI B 16.5	Class 150	A 105	Pcs	9	11	99
		DN 200	ANSI B16.5	Class 150	A 105	Pcs	3	18	54
7	Equal Tee	DN 20	ANSI B16.11	Class 3000	A105-SW	Pcs	2	1.28	3
		DN 50	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	1	2.50	3
		DN 80	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	4	3.82	15

 PAYVAND GOLESTAN CEMENT CO.							Ref. No.: 7.242.UO.821.14.01 Ref. Drawing No.: 1.242.UO.821.14.00		
Description: New Heavy Fuel Oil Storage Tank Piping Plan Material List							Rev.: 0 Page: 2 of 3		
No.	Description	Size	Standard	Rate	Material	Unit	Qty.	Unit Weight	Total Weight
8	Reducer Tee	DN 100x50	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	1	4.99	5
		DN 100x80	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	1	5.18	5
9	Reducer (Con.)	DN 50x40	ANSI B16.11	Class 3000	A105-SW	Pcs	2	0.92	2
		DN 80x50	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	2	1.00	2
10	Coupling	DN 20	ANSI B16.11	Class 3000	A105-SW	Pcs	66	0.17	11.2
11	Reducer (Ecc.)	DN 80x50	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	1	1.00	1
		DN 100x80	ANSI B16.9	Sch. 40	A 234.WPB	Pcs	2	1.60	3
12	Gaskets	DN 40	ANSI B16.21	Class 150	Spiral Wound	Pcs	2	0.03	0.1
		DN 50	ANSI B16.21	Class 150	Spiral Wound	Pcs	21	0.05	1
		DN 80	ANSI B16.21	Class 150	Spiral Wound	Pcs	10	0.09	1
		DN 100	ANSI B16.21	Class 150	Spiral Wound	Pcs	10	0.1	1
		DN 150	ANSI B16.21	Class 150	C.A.F.S	Pcs	4	0.1	0.4
		DN 150	ANSI B16.21	Class 150	Spiral Wound	Pcs	11	0.1	1
		DN 200	ANSI B16.21	Class 150	Spiral Wound	Pcs	3	0.7	2
13	Sockolet	DN 15	ANSI B16.11	Class 3000	A 105	Pcs	5	0.14	1
		DN 20	ANSI B16.11	Class 3000	A 105	Pcs	7	0.15	1
14	Pipe	DN 15	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	10	1.27	13
		DN 20	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	280	1.69	473
		DN 50	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	60	5.44	326
		DN 80	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	20	11.29	226
		DN 100	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	170	16.07	2732
		DN 150	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	260	28.26	7348
		DN 200	ANSI B36.10	Sch. 40	A 106 Gr.B-SMLS	m	30	42.55	1277
15	UNP 120	120mm	DIN 1026	-	St 37-2	m	14	13.40	188
16	UNP 100	100mm	DIN 1026	-	St 37-2	m	59	10.60	625
17	UNP 60	60mm	DIN 1026	-	St 37-2	m	1	5.07	5
18	T 60	-	DIN EN10055	Thk. 6	St37-2	m	5	6.23	31
19	Steel Strap With Two Nuts	DN 100	DIN 3570	A 120x171	Ust 37-1 / DIN 17100	Pcs	11	0.64	7
		DN 150	DIN 3570	A 176x217	Ust 37-1 / DIN 17100	Pcs	45	0.83	37
		DN 200	DIN 3570	A 228x283	Ust 37-1 / DIN 17100	Pcs	11	1.70	19



7.242.UO.821.14.01

1.242.UO.821.14.00

New Heavy Fuel Oil Storage Tank Piping Plan Material List

Page: 3 of 3

No.	Description	Size	Standard	Rate	Material	Unit	Qty.	Unit Weight	Total Weight
20	Stud bolt with Two Nuts	M 14×80	ANSI B16.5	-	A 193 B7,A 194 2H	Pcs	16	0.14	2
		M 16×100	ANSI B16.5	-	A 193 B7,A 194 2H	Pcs	168	0.196	33
		M 16×145	ANSI B16.5	-	A 193 B7,A 194 2H	Pcs	40	0.370	15
		M 20 x 110	ANSI B16.5	-	A 193 B7,A 194 2H	Pcs	108	0.37	40
		M 20 x 160	ANSI B16.5	-	A 193 B7,A 194 2H	Pcs	36	0.49	18
21	Roll Bolt	M 10×100	-	-	-	Pcs	156	0.08	12
22	T 60	-	DIN EN10055	Thk. 6	St37-2	m	9	6.23	56
23	Plate	150x100	-	Thk. 8	St37-2	Pcs	38	0.94	36
		200x200	-	Thk.10	St37-2	Pcs	40	3.14	126
		200x600	-	Thk.10	St37-2	Pcs	2	9.42	19
		200x900	-	Thk.10	St37-2	Pcs	1	14.13	14
		540x2140	-	Thk.10	St37-2	Pcs	1	90.71	91
		200x1250	-	Thk.10	St37-2	Pcs	10	19.63	196
24	Rock Wool	-	-	Thk. 50mm	Density 80 kg/m³	m²	110	4.00	440
25	Galvanized Plate	-	-	Thk. 0.7mm	-	m²	120	5.20	624
26	Wire	Ø 2mm	DIN 177	-	St 37	m	50	0.02	1.2
27	Flexible Pipe with 2 Flanges (L=0.5m)	DN50	T=80°C P=6 bar	—	—	Pcs	3	—	—
		DN80	T=300°C P=6 bar	—	—	Pcs	1	—	—
		DN100	T=80°C P=2 bar	—	—	Pcs	2	—	—
		DN150	T=80°C P=3 bar	—	—	Pcs	5	—	—
		DN200	T=80°C P=2 bar	—	—	Pcs	1	—	—
28	Flexible Pipe with 2 Flanges (L=0.25m)	DN50	T=80°C P=6 bar	—	—	Pcs	1	—	—
						Total Weight16,415			