

**ADDITIONAL RATES FOR PIPES, VALVES &  
FITTINGS**

## SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL PIPES

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate (per meter)
1	Pipe bevel ends Sch. 20 Seamless	ASTM A-333 GR. 6	12	
2	Pipe bevel ends Sch. Std. Seamless	ASTM A-333 GR. 6	10	
3	Pipe bevel ends Sch. XS Seamless	ASTM A-106 GR. B	8	
4	Pipe bevel ends Sch. Std. Seamless	ASTM A-333 GR. 6	8	
5	Pipe bevel ends Sch. XS Seamless	ASTM A-106 GR. B	6	
6	Pipe bevel ends Sch. Std. Seamless	ASTM A-333 GR. 6	6	
7	Pipe bevel ends Sch. 40S Seamless	ASTM A-312 TP 316	6	
8	Pipe bevel ends Sch. 120 Seamless	ASTM A-106 GR. B	6	
9	Pipe bevel ends Sch. XS Seamless	ASTM A-106 GR. B	4	
10	Pipe bevel ends Sch. Std. Seamless	ASTM A-333 GR. 6	4	
11	Pipe bevel ends Sch. 40S Seamless	ASTM A-312 TP 316	4	
12	Pipe bevel ends Sch. 120 Seamless	ASTM A-106 GR. B	4	
13	Pipe bevel ends Sch. XS Seamless	ASTM A-106 GR. B	3	
14	Pipe bevel ends Sch. Std. Seamless	ASTM A-333 GR. 6	3	
15	Pipe bevel ends Sch. Std. Seamless	ASTM A-106 GR. B	3	
16	Pipe bevel ends Sch. 40S Seamless	ASTM A-312 TP 316	3	
17	Pipe bevel ends Sch. 160 Seamless	ASTM A-106 GR. B	3	
18	Pipe bevel ends Sch. 40S Seamless	ASTM A-312 TP 316	2 1/2	
19	Pipe bevel ends Sch. XS Seamless	ASTM A-333 GR. 6	2	
20	Pipe bevel ends Sch. XS Seamless	ASTM A-106 GR. B	2	
21	Pipe bevel ends Sch. 40S Seamless	ASTM A-312 TP 316	2	
22	Pipe bevel ends Sch. 160 Seamless	ASTM A-106 GR. B	2	
23	Pipe plain ends Sch. XS Seamless	ASTM A-106 GR. B	1 1/2	
24	Pipe Thread. ends Sch. 80 Seamless, Galv. To ASTM A-123	ASTM A-53 GR. B (GALV.)	1	
25	Pipe plane ends Sch. XS Seamless	ASTM A-333 GR. 6	1	
26	Pipe plain ends Sch. XS Seamless	ASTM A-106 GR. B	1	
27	Pipe plain ends Sch. 160 Seamless	ASTM A-106 GR. B	1	
28	Pipe Thread. ends Sch. 80 Seamless, Galv. To ASTM A-123	ASTM A-53 GR. B (GALV.)	3/4	
29	Pipe plane ends Sch. XS Seamless	ASTM A-333 GR. 6	3/4	
30	Pipe plane ends Sch. 40S Seamless	ASTM A-312 TP 316	3/4	
31	Pipe plain ends Sch. XS Seamless	ASTM A-106 GR. B	3/4	
32	Pipe plain ends Sch. 160 Seamless	ASTM A-106 GR. B	3/4	
33	Pipe plain ends Sch. XS Seamless	ASTM A-106 GR. B	1/2	
Note:	The Contractor shall be responsible to provide Mill Test Certificate along with supplied material.			

## SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL FITTINGS

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate
1	Elbow 90 B.W. Sch. 20, ANSI B16.9	ASTM A-420 WPL6	12	
2	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	8	
3	Elbow 90 B.W. Sch. Std. ANSI B16.9	ASTM A-420 WPL6	8	
4	Elbow 90 B.W. Sch. 120. ANSI B16.9	ASTM A 234 Gr. WPB	8	
5	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	6	
6	Elbow 90 B.W. Sch. 40S ANSI B16.9	ASTM A-403 WP 316	6	
7	Elbow 90 B.W. Sch. 120. ANSI B16.9	ASTM A 234 Gr. WPB	6	
8	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A-420 WPL6	4	
9	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	4	
10	Elbow 90 B.W. Sch. 40S ANSI B16.9	ASTM A-403 WP 316	4	
11	Elbow 90 B.W. Sch. 120. ANSI B16.9	ASTM A 234 Gr. WPB	4	
12	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A-420 WPL6	3	
13	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	3	
14	Elbow 90 B.W. Sch. Std. ANSI B16.9	ASTM A 234 Gr. WPB	3	
15	Elbow 90 B.W. Sch. 40S ANSI B16.9	ASTM A-403 WP 316	3	
16	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A-420 WPL6	2	
17	Elbow 90 B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	2	
18	Elbow 90 B.W. Sch. 40S ANSI B16.9	ASTM A-403 WP 316	2	
19	Elbow 90 B.W. Sch. 160 ANSI B16.9	ASTM A 234 Gr. WPB	2	
20	Elbow 90 SW, 3000# ANSI B16.11	ASTM A 105	1.5	
21	Elbow 90 Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	1	
22	Elbow 90 SW, 6000# ANSI B16.11	ASTM A 105	1	
23	Elbow 90 SW, 3000# ANSI B16.11	ASTM A-182 GR F304	1	
24	Elbow 90 SW, 3000# ANSI B16.11	ASTM A-350-LF2	1	
25	Elbow 90 SW, 3000# ANSI B16.11	ASTM A 105	1	
26	Elbow 90 Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	0.75	
27	Elbow 90 SW, 3000# ANSI B16.11	ASTM A-350-LF2	0.75	
28	Elbow 90 SW, 3000# ANSI B16.11	ASTM A 105	0.75	
29	Elbow 90 SW, 3000# ANSI B16.11	ASTM A 105	0.5	
30	Tee B.W. Sch. 20, ANSI B16.9	ASTM A-420 WPL6	12	
31	Tee B.W. Sch. XS, ANSI B16.9	ASTM A 234 Gr. WPB	6	
32	Tee B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	4	
33	Tee B.W. Sch.120. ANSI B16.9	ASTM A 234 Gr. WPB	4	
34	Tee B.W. Sch. XS, ANSI B16.9	ASTM A-420 WPL6	4	
35	Tee B.W. Sch. XS, ANSI B16.9	ASTM A 234 Gr. WPB	4	
36	Tee B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	3	
37	Tee B.W. Sch. XS, ANSI B16.9	ASTM A 234 Gr. WPB	3	
38	Tee B.W. Sch. 40S, ANSI B16.9	ASTM A-403 WP 316	3	
39	Tee B.W. Sch. 160 ANSI B16.9	ASTM A 234 Gr. WPB	3	
40	Tee B.W. Sch. XS, ANSI B16.9	ASTM A-420 WPL6	2	
41	Tee B.W. Sch. XS, ANSI B16.9	ASTM A 234 Gr. WPB	2	
42	Tee B.W. Sch. 40S, ANSI B16.9	ASTM A-403 WP 316	2	
43	Tee S.W., 3000# ANSI B16.11	ASTM A-105	1.5	

## SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL FITTINGS

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate
44	Tee Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	1	
45	Tee S.W., 3000# ANSI B16.11	ASTM A-105	1	
46	Tee S.W., 3000# ANSI B16.11	ASTM A-350-LF2	0.75	
47	Tee S.W., 3000# ANSI B16.11	ASTM A-105	0.75	
48	Tee S.W., 3000# ANSI B16.11	ASTM A-350-LF2	0.5	
49	Tee S.W., 3000# ANSI B16.11	ASTM A-105	0.5	
50	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	8X6	
51	Tee Reducing B.W. Sch. Std. ANSI B16.9	ASTM A-420 WPL6	8X4	
52	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	6X4	
53	Tee Reducing B.W. Sch. 120. ANSI B16.9	ASTM A 234 Gr. WPB	6X4	
54	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	6X3	
55	Tee Reducing B.W. Sch. 160 ANSI B16.9	ASTM A 234 Gr. WPB	6X3	
56	Tee Reducing B.W. Sch. Std. ANSI B16.9	ASTM A 234 Gr. WPB	6X3	
57	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	4X3	
58	Tee Reducing B.W. Sch. Std. ANSI B16.9	ASTM A 234 Gr. WPB	4X3	
59	Tee Reducing B.W. Sch. 40S, ANSI B16.9	ASTM A-403 WP 316	4X3	
60	Tee Reducing B.W. Sch. 120. ANSI B16.9	ASTM A 234 Gr. WPB	4X3	
61	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	4X2	
62	Tee Reducing B.W. Sch. 80. ANSI B16.9	ASTM A-420 WPL6	4X2	
63	Tee Reducing B.W. Sch. 120. ANSI B16.9	ASTM A 234 Gr. WPB	4X2	
64	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A-420 WPL6	3X2	
65	Tee Reducing B.W. Sch. XS ANSI B16.9	ASTM A 234 Gr. WPB	3X2	
66	Tee Reducing B.W. Sch. 40S, ANSI B16.9	ASTM A-403 WP 316	3X2	
67	Tee Reducing Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	2X1	
68	Tee Reducing Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	2X0.75	
69	Tee Reducing S.W. 6000# ANSI B16.11	ASTM A-105	1X0.75	
70	Tee Reducing S.W. 3000# ANSI B16.11	ASTM A-350-LF2	1X0.75	
71	Tee Reducing S.W. 3000# ANSI B16.11	ASTM A-182 GR.F304	1X0.75	
72	Tee Reducing S.W. 3000# ANSI B16.11	ASTM A-105	1X0.75	
73	Tee Reducing Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	1X0.5	
74	Tee Reducing S.W. 6000# ANSI B16.11	ASTM A-105	1X0.5	
75	Tee Reducing S.W. 3000# ANSI B16.11	ASTM A-105	1X0.5	
76	Tee Reducing Threaded 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	1.5X1	
77	Tee Reducing S.W. 3000# ANSI B16.11	ASTM A-105	1.5X1	
78	Tee Reducing S.W. 3000# ANSI B16.11	ASTM A-105	1.5X0.75	
79	Eccentric Reducer B.W. Sch.20, ANSI B16.9	ASTM A-420 WPL6	12X8	
80	Concentric Reducer B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	10X8	
81	Concentric Reducer B.W. Sch.XS ANSI B16.9	ASTM A 234 Gr. WPB	8X6	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL FITTINGS**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (In Inch)</b>	<b>Unit Rate</b>
82	Concentric Reducer B.W. Sch.120. ANSI B16.9	ASTM A 234 Gr. WPB	8X6	
83	Concentric Reducer B.W. Sch.120. ANSI B16.9	ASTM A 234 Gr. WPB	8X4	
84	Eccentric Reducer B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	6X4	
85	Concentric Reducer B.W. Sch.XS ANSI B16.9	ASTM A 234 Gr. WPB	6X4	
86	Concentric Reducer B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	6X4	
87	Concentric Reducer B.W. Sch.40S ANSI B16.9	ASTM A-403 WP 316	6X4	
88	Concentric Reducer B.W. Sch.120. ANSI B16.9	ASTM A 234 Gr. WPB	6X4	
89	Concentric Reducer B.W. Sch.XS ANSI B16.9	ASTM A 234 Gr. WPB	6X3	
90	Concentric Reducer B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	6X3	
91	Concentric Reducer B.W. Sch.160. ANSI B16.9	ASTM A 234 Gr. WPB	6X3	
92	Concentric Reducer B.W. Sch.XS ANSI B16.9	ASTM A 234 Gr. WPB	4X3	
93	Concentric Reducer B.W. Sch.XS, ANSI B16.9	ASTM A-420 WPL6	4X2	
94	Concentric Reducer B.W. Sch.XS ANSI B16.9	ASTM A 234 Gr. WPB	4X2	
95	Concentric Reducer B.W. Sch.160. ANSI B16.9	ASTM A 234 Gr. WPB	4X2	
96	Concentric Reducer B.W. Sch.XS, ANSI B16.9	ASTM A-420 WPL6	3X2.5	
97	Concentric Reducer B.W. Sch.40S ANSI B16.9	ASTM A-403 WP 316	3X2.5	
98	Eccentric Reducer B.W. Sch.Std. ANSI B16.9	ASTM A 234 Gr. WPB	3X2	
99	Concentric Reducer B.W. Sch.XS. ANSI B16.9	ASTM A 234 Gr. WPB	3X2	
100	Concentric Reducer B.W. Sch.Std. ANSI B16.9	ASTM A-420 WPL6	3X2	
101	Cap B.W. Sch. XS, ANSI B 16.9	ASTM A 234 Gr. WPB	6	
102	Cap B.W. Sch. XS, ANSI B 16.9	ASTM A 234 Gr. WPB	4	
103	Cap B.W. Sch. 40S., ANSI B 16.9	ASTM A-403 WP 316	4	
104	Cap B.W. Sch. 120. ANSI B 16.9	ASTM A 234 Gr. WPB	4	
105	Cap Threaded 3000# ANSI B 16.11	ASTM A-105 (GALVANIZED)	2	
106	Cap Threaded 3000# ANSI B 16.11	ASTM A-105 (GALVANIZED)	1	
107	Cap Threaded 3000# ANSI B 16.11	ASTM A-105	0.75	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL FITTINGS**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (In Inch)</b>	<b>Unit Rate</b>
108	Cap S.W. 3000# ANSI B 16.11	ASTM A-105	0.75	
109	Flange W.N. RF 150#, Sch. 20, ANSI B 16.5	ASTM A-350-LF2	12	
110	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	10	
111	Flange W.N. RF 150#, Sch. Std., ANSI B 16.5	ASTM A-350-LF2	10	
112	Flange W.N. RTJ 900#, Sch. 120. ANSI B 16.5	ASTM A-105	8	
113	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	8	
114	Flange W.N. RF 150#, Sch. Std. ANSI B 16.5	ASTM A-105	8	
115	Flange W.N. RTJ 900#, Sch. 120. ANSI B 16.5	ASTM A-105	6	
116	Flange W.N. RTJ 1500#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	6	
117	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	6	
118	Flange W.N. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	6	
119	Flange W.N. RTJ 900#, Sch. 120. ANSI B 16.5	ASTM A-105	4	
120	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	4	
121	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	4	
122	Flange W.N. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	4	
123	Flange W.N. RTJ 900#, Sch. 160. ANSI B 16.5	ASTM A-105	3	
124	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	3	
125	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	3	
126	Flange W.N. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	3	
127	Flange W.N. RF 300#, Sch. XS. ANSI B 16.5	ASTM A-105	3	
128	Flange W.N. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	2.5	
129	Flange W.N. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-105	2.5	
130	Flange W.N. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	2.5	
131	Flange W.N. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-105	2.5	
132	Flange W.N. RTJ 1500#, Sch. 160, ANSI B 16.5	ASTM A-105	2	
133	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	2	
134	Flange W.N. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	2	
135	Flange W.N. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	2	
136	Flange W.N. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	2	
137	Flange W.N. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-105	2	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL FITTINGS**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (In Inch)</b>	<b>Unit Rate</b>
138	Flange W.N. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	2	
139	Flange W.N. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-105	2	
140	Flange Threaded RF 150#, Sch. 80, ANSI B 16.5	ASTM A-105 (GALVANIZED)	1.5	
141	Flange S.W. RTJ 1500#, Sch. 160, ANSI B 16.5	ASTM A-105	1.5	
142	Flange S.W. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	1.5	
143	Flange S.W. RF 150#, Sch. 160, ANSI B 16.5	ASTM A-105	1.5	
144	Flange S.W. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	1.5	
145	Flange S.W. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	1.5	
146	Flange S.W. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	1.5	
147	Flange S.W. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-105	1.5	
148	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	1.5	
149	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-105	1.5	
150	Flange Threaded RF 150#, Sch. 80, ANSI B 16.5	ASTM A-105 (GALVANIZED)	1	
151	Flange S.W. RTJ 1500#, Sch. 160, ANSI B 16.5	ASTM A-105	1	
152	Flange S.W. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-105	1	
153	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	1	
154	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-105	1	
155	Flange S.W. RTJ 1500#, Sch. 160, ANSI B 16.5	ASTM A-105	0.75	
156	Flange S.W. RF 600#, Sch. XS, ANSI B 16.5	ASTM A-105	0.75	
157	Flange S.W. RF 600#, Sch. 40S, ANSI B 16.5	ASTM A-182 GR F304	0.75	
158	Flange S.W. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	0.75	
159	Flange S.W. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-105	0.75	
160	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-350-LF2	0.75	
161	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-105	0.75	
162	Flange S.W. RF 300#, Sch. XS, ANSI B 16.5	ASTM A-105	0.5	
163	Flange S.W. RF 150#, Sch. XS, ANSI B 16.5	ASTM A-105	0.5	
164	Blind Flange RF 600# ANSI B 16.5	ASTM A-105	20	
165	Blind Flange RF 300# ANSI B 16.5	ASTM A-105	20	
166	Blind Flange RF 150# ANSI B 16.5	ASTM A-350-LF2	8	
167	Blind Flange RF 150# ANSI B 16.5	ASTM A-105	8	
168	Blind Flange RTJ 900# ANSI B 16.5	ASTM A-105	6	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL FITTINGS**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (In Inch)</b>	<b>Unit Rate</b>
169	Blind Flange RF 150# ANSI B 16.5	ASTM A-105	6	
170	Blind Flange RTJ 900# ANSI B 16.5	ASTM A-105	4	
171	Blind Flange RF 150# ANSI B 16.5	ASTM A-105	4	
172	Blind Flange RTJ 900# ANSI B 16.5	ASTM A-105	3	
173	Blind Flange RF 300# ANSI B 16.5	ASTM A-350-LF2	3	
174	Blind Flange RF 150# ANSI B 16.5	ASTM A-105	3	
175	Blind Flange RTJ 900# ANSI B 16.5	ASTM A-105	2	
176	Blind Flange RF 600# ANSI B 16.5	ASTM A-182 GR F304	2	
177	Blind Flange RF 150# ANSI B 16.5	ASTM A-105	2	
178	Blind Flange RF 150# ANSI B 16.5	ASTM A-105 (GALVANIZED)	2	
179	Blind Flange RTJ 900# ANSI B 16.5	ASTM A-105	1	
180	Blind Flange RF 150# ANSI B 16.5	ASTM A-105 (GALVANIZED)	1	
181	Blind Flange RF 300# ANSI B 16.5	ASTM A-350-LF2	0.75	
182	Blind Flange RF 300# ANSI B 16.5	ASTM A-105	0.75	
183	Union (Female-Female)	ASTM A-105 (GALVANIZED)	2	
184	Union ,3000#,S.W	ASTM A-105	1.5	
185	Coupling (Quick) Threaded, 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	2	
186	Union (Female-Female)	ASTM A-105 (GALVANIZED)	1	
187	Coupling (Half) Threaded, 6000# ANSI B16.11	ASTM A-105	1	
188	Coupling (Half) S.W. 3000# ANSI B16.11	ASTM A-105	1	
189	Coupling (Full) Threaded, 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	1	
190	Coupling (Full) S.W. 6000# B16.11	ASTM A-105	1	
191	Coupling (Full) S.W. 3000# B16.11	ASTM A-105	1	
192	Coupling (Full) Threaded, 3000# ANSI B16.11	ASTM A-105 (GALVANIZED)	0.75	
193	Coupling (Full) S.W. 3000# B16.11	ASTM A-105	0.5	
<b>Note:</b> The Contractor shall be responsible to provide Mill Test Certificate along with supplied				

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (Per Inch)</b>	<b>Unit Rate</b>
1	GATE VALVE RF 600 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	8	
2	GATE VALVE RF 150 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	8	
3	GATE VALVE RF 600 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	6	
4	GATE VALVE RF 300 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	6	
5	GATE VALVE RF 300 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	4	
6	GATE VALVE RF 150 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	4	
7	Gate Valve RF 300# B.S. 1414 OR API 600, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: A-352 GR. LCB, TRIM: 316 S.S HF SEATS	3	
8	GATE VALVE RF 600 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	3	
9	GATE VALVE RF 300 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	3	
10	GATE VALVE RF 150 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	3	
11	GATE VALVE RF 150 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2.5	
12	Gate Valve RF 600# B.S. 1414 OR API 600, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: A-352 GR. LCB, TRIM: 316 S.S HF SEATS	2	
13	Gate Valve RF 600# B.S. 1414 OR API 600, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: A-351 GR.CF3, TRIM: 316 S.S HF SEATS	2	
14	Gate Valve RF 300# B.S. 1414 OR API 600, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: A-352 GR. LCB, TRIM: 316 S.S HF SEATS	2	
15	Gate Valve RF 150# API 600, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: A-352 GR. LCB, TRIM: 316 S.S HF SEATS	2	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (Per Inch)</b>	<b>Unit Rate</b>
16	GATE VALVE THREADED(API) PN.25 SERIES B, B.S. 5154, UNION BONNET RISING STEM, SOLID WEDGE, HANDWHEEL	BODY:BRONZE TO B.S. 1400 LG2, TRIM: BRONZE TO B.S. 1400 LG2	2	
17	GATE VALVE RTJ 1500 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
18	GATE VALVE RF 600 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
19	GATE VALVE RF 300 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
20	GATE VALVE RF 150 #, API 600 OR B.S. 1414, OS&Y, BOLTED BONNET & GLAND, FLEXIBLE WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
21	GATE VALVE S.W. 800# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	1.5	
22	GATE VALVE S.W. X THREADED 800#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	1.5	
23	GATE VALVE S.W. 800# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	1	
24	GATE VALVE S.W. 1500# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	1	
25	GATE VALVE THREADED(API) PN.25 SERIES B, B.S. 5154, UNION BONNET RISING STEM, SOLID WEDGE, HANDWHEEL	BODY:BRONZE TO B.S. 1400 LG2, TRIM: BRONZE TO B.S. 1400 LG2	1	
26	GATE VALVE S.W. X THREADED 800#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	1	
27	GATE VALVE S.W. X THREADED 1500#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	1	
28	GATE VALVE S.W. 800# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.75	
29	GATE VALVE S.W. 1500# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.75	
30	GATE VALVE THREADED(API) PN.25 SERIES B, B.S. 5154, UNION BONNET RISING STEM, SOLID WEDGE, HANDWHEEL	BODY:BRONZE TO B.S. 1400 LG2, TRIM: BRONZE TO B.S. 1400 LG2	0.75	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (Per Inch)</b>	<b>Unit Rate</b>
31	GATE VALVE S.W. X THREADED 800#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-350 GR. LF2 TRIM: 316 ST. STEAL HF SEATS	0.75	
32	GATE VALVE S.W. X THREADED 800#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-182 GR 316. STELLITE FACESD SEATS	0.75	
33	GATE VALVE S.W. X THREADED 800#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.75	
34	GATE VALVE S.W. X THREADED 1500#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-182 GR 316. STELLITE FACESD SEATS	0.75	
35	GATE VALVE S.W. X THREADED 1500#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.75	
36	GATE VALVE S.W. 800#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-182 GR 316. STELLITE FACESD SEATS	0.75	
37	GATE VALVE S.W. 800#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-350 GR. LF2 TRIM: 316 ST. STEAL HF SEATS	0.75	
38	GATE VALVE S.W. 800# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.5	
39	GATE VALVE S.W. 1500# B.S. 5352 OR API 602, OS & Y BOLTED BONNET & GLAND SOLID WEDGE, RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.5	
40	GATE VALVE THREADED(API) PN.25 SERIES B, B.S. 5154, UNION BONNET RISING STEM, SOLID WEDGE, HANDWHEEL	BODY:BRONZE TO B.S. 1400 LG2, TRIM: BRONZE TO B.S. 1400 LG2	0.5	
41	GATE VALVE S.W. X THREADED 800#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-350 GR. LF2 TRIM: 316 ST. STEAL HF SEATS	0.5	
42	GATE VALVE S.W. X THREADED 800#, API 602, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-182 GR 316. STELLITE FACESD SEATS	0.5	
43	GATE VALVE S.W. X THREADED 800#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.5	
44	GATE VALVE S.W. X THREADED 1500#, API 602 OR B.S. 5352, OS&Y, BOLTED BONNET & GLAND, SOLID WEDGE & RENEWABLE SEATS, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS 13 % CR, HF SEATS	0.5	
45	Ball Valve RTJ 900# B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, TRUNNION MOUNTED, BEVEL GEAR OPERATED	BODY: ASTM A-351 CF8M, BALL STEM, SEAT HOLDER AND TRUNNION: S.S 316 SEAT: REINFORCED PTFE	6	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (Per Inch)</b>	<b>Unit Rate</b>
46	Ball Valve RTJ 900# B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, TRUNNION MOUNTED, BEVEL GEAR OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	6	
47	Ball Valve RF 600 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, TRUNNION MOUNTED, BEVEL GEAR OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	6	
48	Ball Valve RF 300 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	6	
49	Ball Valve RTJ 900# B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, TRUNNION MOUNTED, BEVEL GEAR OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	4	
50	Ball Valve RF 600 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	4	
51	Ball Valve RF 300 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	4	
52	Ball Valve RTJ 900# B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, TRUNNION MOUNTED, BEVEL GEAR OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	3	
53	Ball Valve RF 600# B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-351 CF8M, BALL STEM, SEAT HOLDER AND TRUNNION: S.S 316 SEAT: REINFORCED PTFE	3	
54	Ball Valve RF 300 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	3	
55	Ball Valve RTJ 900# B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	2	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
56	Ball Valve RF 600 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	2	
57	Ball Valve RF 300 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	2	
58	Ball Valve RF 150 # B.S. 5351 OR API 6D, BOLTED FULL BORE BODY, FLOATING BALL OR TRUNNION MOUNTED, LEVER OPERATED	BODY: ASTM A-105 OR ASTM A-216 GR. WCB, BALL STEM, SEAT HOLDER AND TRUNNION: SS 316 OR CS WITH 0.003" ENP., SEAT: NYLON OR REINFORCED PTFE	2	
59	GLOBE VALVE ST. PATTERN RF 600 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	6	
60	GLOBE VALVE ST. PATTERN RF 300 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	4	
61	GLOBE VALVE ST. PATTERN RF 150 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	4	
62	Globe Valve ST. PATTERN RF 600# B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC.,RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-351 CF8M TRIM:316 S.S STELLITE FACED SEATS	3	
63	GLOBE VALVE ST. PATTERN RF 600 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	3	
64	GLOBE VALVE ST. PATTERN RF 300 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	3	
65	GLOBE VALVE ST. PATTERN RF 150 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	3	
66	Globe Valve ST. PATTERN RF 600# B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC.,RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-352 GR. LCB TRIM: SS 316, HARD FACED SEATS	2	
67	Globe Valve ST. PATTERN RF 600# B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC.,RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-351 CF8M TRIM:316 S.S STELLITE FACED SEATS	2	
68	Globe Valve ST. PATTERN RF 300# B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC.,RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
69	Globe Valve ST. PATTERN RF 150# B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC.,RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-352 GR. LCB TRIM: SS 316, HARD FACED SEATS	2	
70	GLOBE VALVE ST. PATTERN RTJ 900 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
71	GLOBE VALVE ST. PATTERN RF 600 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
72	GLOBE VALVE ST. PATTERN RF 300 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
73	GLOBE VALVE ST. PATTERN RF 150 #, B.S. 1873, OS&Y, BOLTED BONNET & GLAND, RENEWABLE PLUG TYPE DISC., RENEWABLE SEAT RING, HANDWHEEL	BODY: ASTM A-216 GR. WCB TRIM: 13 % CR(A-182 GR. F6 OR AISI 410,416), HF SEATS	2	
74	GLOBE VALVE ST. PATTERN, S.W. 800#, B.S. 5352 OR API 602, OS&Y BOLTED BONNET& GLAND, PLUG TYPE DISC. RENEWABLE SEAT, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS SS316 OR AISI 410,416, HF SEATS	1.5	
75	Globe Valve ST. PATTERN S.W. 800# B.S. 5352 OR API 602, OS&Y, BOLTED BONNET & GLAND, PLUG TYPE DISC.,RENEWABLE SEATS, HANDWHEEL	BODY: ASTM A-350 GR. LF2, DISC. STEAM AND SEAT RINGS : ST. STEEL 316 OR 410,416, HARD FACED SEATS	1	
76	GLOBE VALVE ST. PATTERN, S.W. 800#, B.S. 5352 OR API 602, OS&Y BOLTED BONNET& GLAND, PLUG TYPE DISC. RENEWABLE SEAT, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS SS316 OR AISI 410,416, HF SEATS	1	
77	GLOBE VALVE ST. PATTERN, S.W. 1500#, B.S. 5352 OR API 602, OS&Y BOLTED BONNET& GLAND, PLUG TYPE DISC. RENEWABLE SEAT, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS SS316 OR AISI 410,416, HF SEATS	1	
78	GLOBE VALVE ST. PATTERN, S.W. 800#, B.S. 5352 OR API 602, OS&Y BOLTED BONNET& GLAND, PLUG TYPE DISC. RENEWABLE SEAT, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS SS316 OR AISI 410,416, HF SEATS	0.75	
79	GLOBE VALVE ST. PATTERN, S.W. 800#, B.S. 5352 OR API 602, OS&Y BOLTED BONNET& GLAND, PLUG TYPE DISC. RENEWABLE SEAT, HANDWHEEL	BODY:ASTM A-105 NORMALIZED DISC. STEM & SEAT RINGS SS316 OR AISI 410,416, HF SEATS	0.5	
80	Check Valve RTJ 900# API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	6	
81	Check Valve RF 600 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	6	
82	Check Valve RF 300 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	6	
83	Check Valve RF 150# API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	6	

**SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES**

<b>SNO</b>	<b>DESCRIPTION</b>	<b>MATERIAL</b>	<b>SIZE (Per Inch)</b>	<b>Unit Rate</b>
84	Check Valve RTJ 900# API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	4	
85	Check Valve RF 600 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	4	
86	Check Valve RF 300 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	4	
87	Check Valve RF 150# API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	4	
88	Check Valve RF 600 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	3	
89	Check Valve RF 300 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	3	
90	Check Valve RF 150# API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	3	
91	Check Valve RF 300 # API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	2	
92	Check Valve RF 150# API594, WAFER TYPE, METAL TO METAL SEATS, DUAL PLATE	BODY: ASTM A-216 GR. WCB TRIM: ST. STEEL TYPE 316,410, DISC. A-216 GR. WCB, SPRING: INCONEL X	2	
93	Check Valve(HORIZONTAL) S.W. 800# B.S. 5352, BOLTED COVER, PISTON TYPE RENEWABLE SEATS	BODY: ASTM A-182 GR. SS 316 TRIM: SS 316	1	
94	Check Valve(HORIZONTAL) S.W. 1500# B.S. 5352, BOLTED COVER, PISTON TYPE RENEWABLE SEATS	BODY: ASTM A-182 GR. SS 316 TRIM: SS 316	1	
95	Check Valve(HORIZONTAL) S.W. 800# B.S. 5352, BOLTED COVER, PISTON TYPE RENEWABLE SEATS	BODY: ASTM A-182 GR. SS 316 TRIM: SS 316	0.75	
96	Check Valve(HORIZONTAL) S.W. 800# B.S. 5352, BOLTED BONNET, PISTON TYPE RENEWABLE SEATS	BODY: ASTM A-350 GR. LF2 TRIM: 316 ST. STEAL HF SEATS	0.75	
97	Check Valve(HORIZONTAL) S.W. 800# B.S. 5352, BOLTED COVER, PISTON TYPE RENEWABLE SEATS	BODY: ASTM A-182 GR. SS 316 TRIM: SS 316	0.5	
Note:	The Contractor shall be responsible to provide Mill Test Certificate along with supplied material.			



**SCHEDULE OF RATES FOR ADDITIONAL MECHANICAL WORKS**

		<b>Rate (Rs)</b>
1	Erection of equipments (Per kg basis)	
2	Fabrication, Erection & Installion of Steel Structure (Per kg basis)	
3	Fabrication, Erection & Installion of Piping (Per dia Inch)	
4	Supply & Application of 1 Cementateous 2 Non shrinkable/ Epoxy Grouting (Per m3)	
5	Supply & Application of Insulation (Per m2)	
6	Supply & Application of Painting / Sand blasting (Per m2)	



**SCHEDULE OF RATES FOR ADDITIONAL  
USAGE OF CONSTRUCTION EQUIPMENT /MANPOWER /  
CONSUMABLES**

<b>B1. Supply of Construction Equipment</b> (inclusive of cost for fuel, maintenance and operator)		
S. No.	Description	Rs./Hr.
1	Mobile Crane (upto 10 ton capacity)	
2	Mobile Crane (11-25 ton capacity)	
3	Mobile Crane (26-50 ton capacity)	
4	Welding Machine (inclusive of welding holder and cables)	
5	Gas Cutting Set	
6	Argon Set	
6	Air Compressor	
7	Diesel Generator	
8	Tools & Tackles	
<b>B2. Supply of Manpower</b>		
S. No.	Description	Rs./Hr.
1	Project Manager	
2	Engineer (Various Dicipines)	
3	Supervisor (Various Dicipines)	
4	Mechanical Technician	
5	Electrical Technician	
6	Instrument Technician	
7	Quality Inspector	
8	Welder	
9	Fabricator	
10	Pipe Fitter	
11	Rigger	
12	Insulator	
13	Helper	
14	Mill Right	
<b>B3. Consumables</b>		
S. No.	Description	Rs./Kg
1	Welding electrodes /filler metal (CS)	
2	Welding electrodes / filler metal (SS)	
3	Shielding gas	

**Note:** The above rates would only be applicable for Work outside the Contractor's Scope of Work as may be directed by OGDCL.

/ Engineering Consultant. This shall include to and from travel expenses, boarding/lodging, insurance, medical cover and all other expenses.