

ANNEXURE-IX-A

**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 plain 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 plain ends Sch. XS Seamless	ASTM A-333 GR. 6	3/4	
30	Pipe plain 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

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (In Inch)	Unit Rate
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	
Note: The Contractor shall be responsible to provide Mill Test Certificate along with supplied				

SCHEDULE OF RATES FOR SUPPLY OF ADDITIONAL VALVES

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
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

SNO	DESCRIPTION	MATERIAL	SIZE (Per Inch)	Unit Rate
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

		Rate (Rs)
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**

B1. Supply of Construction Equipment (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	
B2. Supply of Manpower		
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	
B3. Consumables		
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.