

Enqslno	Materialcode	Description	Lot no	Qty	Unit	Dely dt	Destination	Bidder Response
1	RFW009690001	FRP PIPE OF SIZE 50 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	660	MR	24-Feb-21	STORES/MOUDA SITE	
2	RFW009690002	FRP PIPE OF SIZE 80 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	570	MR	24-Feb-21	STORES/MOUDA SITE	
3	RFW009690003	FRP PIPE OF SIZE 100 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	130	MR	24-Feb-21	STORES/MOUDA SITE	
4	RFW009690004	FRP PIPE OF SIZE 125 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	810	MR	24-Feb-21	STORES/MOUDA SITE	
5	RFW009690005	FRP PIPE OF SIZE 150 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	1080	MR	24-Feb-21	STORES/MOUDA SITE	
6	RFW009690006	FRP PIPE OF SIZE 200 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	2280	MR	24-Feb-21	STORES/MOUDA SITE	
7	RFW009690007	FRP PIPE OF SIZE 250 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	750	MR	24-Feb-21	STORES/MOUDA SITE	
8	RFW009690008	FRP 45 DEGREE ELBOW OF SIZE 50NB OF PN1 0 RATING. AS PER TECH SPEC:ROS:1057 R00	1	48	NO	24-Feb-21	STORES/MOUDA SITE	
9	RFW009690009	FRP 45 DEGREE ELBOW OF SIZE 80NB OF PN1 0 RATING. AS PER TECH SPEC:ROS:1057 R00	1	5	NO	24-Feb-21	STORES/MOUDA SITE	
10	RFW009690010	FRP 45 DEGREE ELBOW OF SIZE 100NB OF PN 10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	7	NO	24-Feb-21	STORES/MOUDA SITE	
11	RFW009690011	FRP 45 DEGREE ELBOW OF SIZE 150NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	12	NO	24-Feb-21	STORES/MOUDA SITE	
12	RFW009690012	FRP 45 DEGREE ELBOW OF SIZE 200NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	14	NO	24-Feb-21	STORES/MOUDA SITE	
13	RFW009690013	FRP 45 DEGREE ELBOW OF SIZE 250NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	5	NO	24-Feb-21	STORES/MOUDA SITE	
14	RFW009690014	FRP 60 DEGREE ELBOW OF SIZE 200NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	1	NO	24-Feb-21	STORES/MOUDA SITE	
15	RFW009690015	FRP 60 DEGREE ELBOW OF SIZE 250NB OF PN 10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	2	NO	24-Feb-21	STORES/MOUDA SITE	
16	RFW009690016	FRP 75 DEGREE ELBOW OF SIZE 150NB OF PN 10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	19	NO	24-Feb-21	STORES/MOUDA SITE	
17	RFW009690017	FRP 75 DEGREE ELBOW OF SIZE 250NB OF PN 10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	24	NO	24-Feb-21	STORES/MOUDA SITE	
18	RFW009690018	FRP 84 DEGREE ELBOW OF SIZE 50NB OF PN1 0 RATING. AS PER TECH SPEC:ROS:1057 R00	1	12	NO	24-Feb-21	STORES/MOUDA SITE	
19	RFW009690019	FRP 84 DEGREE ELBOW OF SIZE 125NB OF PN 10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	7	NO	24-Feb-21	STORES/MOUDA SITE	
20	RFW009690020	FRP 84 DEGREE ELBOW OF SIZE 150NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	54	NO	24-Feb-21	STORES/MOUDA SITE	
21	RFW009690021	FRP 84 DEGREE ELBOW OF SIZE 200NB OF PN 10 RATING. AS PER TECH SPEC:ROS:1057 R00	1	14	NO	24-Feb-21	STORES/MOUDA SITE	
22	RFW009690022	FRP 84 DEGREE ELBOW OF SIZE 250NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	12	NO	24-Feb-21	STORES/MOUDA SITE	
23	RFW009690023	FRP 90 DEGREE ELBOW OF SIZE 50NB OF PN1 0 RATING AS PER TECH SPEC:ROS:1057 R00	1	144	NO	24-Feb-21	STORES/MOUDA SITE	
24	RFW009690024	FRP 90 DEGREE ELBOW OF SIZE 80NB OF PN1 0 RATING AS PER TECH SPEC:ROS:1057 R00	1	36	NO	24-Feb-21	STORES/MOUDA SITE	
25	RFW009690025	FRP 90 DEGREE ELBOW OF SIZE 100NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	24	NO	24-Feb-21	STORES/MOUDA SITE	
26	RFW009690026	FRP 90 DEGREE ELBOW OF SIZE 125NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	144	NO	24-Feb-21	STORES/MOUDA SITE	

27	RFW009690027	FRP 90 DEGREE ELBOW OF SIZE 150NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	138	NO	24-Feb-21	STORES/MOUDA SITE	
28	RFW009690028	FRP 90 DEGREE ELBOW OF SIZE 200NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	150	NO	24-Feb-21	STORES/MOUDA SITE	
29	RFW009690029	FRP 90 DEGREE ELBOW OF SIZE 250NB OF PN 10 RATING AS PER TECH SPEC:ROS:1057 R00	1	48	NO	24-Feb-21	STORES/MOUDA SITE	
30	RFW009690030	FRP EQUAL TEE OF SIZE 50NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	18	NO	24-Feb-21	STORES/MOUDA SITE	
31	RFW009690031	FRP EQUAL TEE OF SIZE 100NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	1	NO	24-Feb-21	STORES/MOUDA SITE	
32	RFW009690032	FRP EQUAL TEE OF SIZE 125NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	8	NO	24-Feb-21	STORES/MOUDA SITE	
33	RFW009690033	FRP EQUAL TEE OF SIZE 150NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	5	NO	24-Feb-21	STORES/MOUDA SITE	
34	RFW009690034	FRP EQUAL TEE OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	18	NO	24-Feb-21	STORES/MOUDA SITE	
35	RFW009690035	FRP EQUAL TEE OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	7	NO	24-Feb-21	STORES/MOUDA SITE	
36	RFW009690036	FRP UNEQUAL TEE OF SIZE 100 X 50 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	5	NO	24-Feb-21	STORES/MOUDA SITE	
37	RFW009690037	FRP UNEQUAL TEE OF SIZE 150 X 125 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	2	NO	24-Feb-21	STORES/MOUDA SITE	
38	RFW009690038	FRP UNEQUAL TEE OF SIZE 250 X 200 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	2	NO	24-Feb-21	STORES/MOUDA SITE	
39	RFW009690039	FRP 84 DEGREE EQUAL TEE OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	5	NO	24-Feb-21	STORES/MOUDA SITE	
40	RFW009690040	FRP 84 DEGREE EQUAL TEE OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	1	NO	24-Feb-21	STORES/MOUDA SITE	
41	RFW009690041	FRP 84 DEGREE UNEQUAL TEE OF SIZE 250 X 150 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	10	NO	24-Feb-21	STORES/MOUDA SITE	
42	RFW009690042	FRP CONCENTRIC REDUCER OF SIZE 200 X 125 NB OF PN10 RATING	1	2	NO	24-Feb-21	STORES/MOUDA SITE	
43	RFW009690043	FRP CONCENTRIC REDUCER OF SIZE 200 X 150 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	2	NO	24-Feb-21	STORES/MOUDA SITE	
44	RFW009690044	FRP ECCENTRIC REDUCER OF SIZE 100 X 50 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	2	NO	24-Feb-21	STORES/MOUDA SITE	
45	RFW009690045	FRP ECCENTRIC REDUCER OF SIZE 125 X 80 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	1	NO	24-Feb-21	STORES/MOUDA SITE	
46	RFW009690046	FRP ECCENTRIC REDUCER OF SIZE 200 X 150 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	10	NO	24-Feb-21	STORES/MOUDA SITE	
47	RFW009690047	FRP ECCENTRIC REDUCER OF SIZE 250 X 200 NB OF PN10 RATING	1	24	NO	24-Feb-21	STORES/MOUDA SITE	
48	RFW009690048	FRP FLANGE OF SIZE 80NB OF PN10 RATING	1	24	NO	24-Feb-21	STORES/MOUDA SITE	
49	RFW009690049	FRP FLANGE OF SIZE 100NB OF PN10 RATING	1	48	NO	24-Feb-21	STORES/MOUDA SITE	
50	RFW009690050	FRP FLANGE OF SIZE 125NB OF PN10 RATING	1	108	NO	24-Feb-21	STORES/MOUDA SITE	
51	RFW009690051	FRP FLANGE OF SIZE 150NB OF PN10 RATING	1	48	NO	24-Feb-21	STORES/MOUDA SITE	
52	RFW009690052	FRP FLANGE OF SIZE 200NB OF PN10 RATING	1	128	NO	24-Feb-21	STORES/MOUDA SITE	
53	RFW009690053	FRP FLANGE OF SIZE 250NB OF PN10 RATING	1	29	NO	24-Feb-21	STORES/MOUDA SITE	
54	RFW009690054	FRP STUB FLANGE OF SIZE 50NB OF PN10 RATING	1	462	NO	24-Feb-21	STORES/MOUDA SITE	
55	RFW009710001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC: ROS1057 AT MOUDA (2 X 500MW) PROJECT SITE.	1	1	LT	24-Feb-21	STORES/MOUDA SITE	

Enqslno	Materialcode	Description	Lot no	Qty	Unit	Dely dt	Destination	Bidder Response
56	RFW009850001	FRP PIPE SIZE OF 50 NB OF PN10 RATING.	1	460	MR	24-Jun-21	STORES/BARH-II SITE	
57	RFW009850002	FRP PIPE SIZE OF 80 NB OF PN10 RATING.	1	110	MR	24-Jun-21	STORES/BARH-II SITE	
58	RFW009850003	FRP PIPE SIZE OF 100 NB OF PN10 RATING.	1	410	MR	24-Jun-21	STORES/BARH-II SITE	
59	RFW009850004	FRP PIPE SIZE OF 125 NB OF PN10 RATING.	1	90	MR	24-Jun-21	STORES/BARH-II SITE	
60	RFW009850005	FRP PIPE SIZE OF 150 NB OF PN10 RATING.	1	1070	MR	24-Jun-21	STORES/BARH-II SITE	
61	RFW009850006	FRP PIPE SIZE OF 200 NB OF PN10 RATING.	1	1700	MR	24-Jun-21	STORES/BARH-II SITE	
62	RFW009850007	FRP PIPE SIZE OF 250 NB OF PN10 RATING.	1	1140	MR	24-Jun-21	STORES/BARH-II SITE	
63	RFW009850008	FRP 45 DEGREE ELBOW SIZE OF 50 NB OF PN 10 RATING.	1	14	NO	24-Jun-21	STORES/BARH-II SITE	
64	RFW009850009	FRP 45 DEGREE ELBOW SIZE OF 100 NB OF PN 10 RATING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
65	RFW009850010	FRP 45 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	1	29	NO	24-Jun-21	STORES/BARH-II SITE	
66	RFW009850011	FRP 45 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	1	20	NO	24-Jun-21	STORES/BARH-II SITE	
67	RFW009850012	FRP 45 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
68	RFW009850013	FRP 30 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
69	RFW009850014	FRP 60 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
70	RFW009850015	FRP 60 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
71	RFW009850016	FRP 75 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	1	24	NO	24-Jun-21	STORES/BARH-II SITE	
72	RFW009850017	FRP 75 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	1	34	NO	24-Jun-21	STORES/BARH-II SITE	
73	RFW009850018	FRP 84 DEGREE ELBOW SIZE OF 50 NB OF PN 10 RATING.	1	10	NO	24-Jun-21	STORES/BARH-II SITE	
74	RFW009850019	FRP 84 DEGREE ELBOW SIZE OF 80 NB OF PN 10 RATING.	1	24	NO	24-Jun-21	STORES/BARH-II SITE	
75	RFW009850020	FRP 84 DEGREE ELBOW SIZE OF 100 NB OF PN 10 RATING.	1	23	NO	24-Jun-21	STORES/BARH-II SITE	
76	RFW009850021	FRP 84 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	1	62	NO	24-Jun-21	STORES/BARH-II SITE	
77	RFW009850022	FRP 84 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	1	36	NO	24-Jun-21	STORES/BARH-II SITE	
78	RFW009850023	FRP 90 DEGREE ELBOW SIZE OF 50 NB OF PN 10 RATING.	1	138	NO	24-Jun-21	STORES/BARH-II SITE	
79	RFW009850024	FRP 90 DEGREE ELBOW SIZE OF 80 NB OF PN 10 RATING.	1	24	NO	24-Jun-21	STORES/BARH-II SITE	
80	RFW009850025	FRP 90 DEGREE ELBOW SIZE OF 100 NB OF PN 10 RATING.	1	64	NO	24-Jun-21	STORES/BARH-II SITE	
81	RFW009850026	FRP 90 DEGREE ELBOW SIZE OF 125 NB OF PN 10 RATING.	1	44	NO	24-Jun-21	STORES/BARH-II SITE	
82	RFW009850027	FRP 90 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	1	169	NO	24-Jun-21	STORES/BARH-II SITE	
83	RFW009850028	FRP 90 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	1	164	NO	24-Jun-21	STORES/BARH-II SITE	
84	RFW009850029	FRP 90 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	1	116	NO	24-Jun-21	STORES/BARH-II SITE	
85	RFW009850030	FRP EQUAL TEE SIZE OF 50 NB OF PN 10 RAT ING.	1	17	NO	24-Jun-21	STORES/BARH-II SITE	
86	RFW009850031	FRP EQUAL TEE SIZE OF 100 NB OF PN 10 RA TING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
87	RFW009850032	FRP EQUAL TEE SIZE OF 125 NB OF PN 10 RA TING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
88	RFW009850033	FRP EQUAL TEE SIZE OF 150 NB OF PN 10 RA TING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
89	RFW009850034	FRP EQUAL TEE SIZE OF 200 NB OF PN 10 RA TING.	1	12	NO	24-Jun-21	STORES/BARH-II SITE	
90	RFW009850035	FRP EQUAL TEE SIZE OF 250 NB OF PN 10 RA TING.	1	7	NO	24-Jun-21	STORES/BARH-II SITE	
91	RFW009850036	FRP 84 DEGREE EQUAL TEE SIZE OF 50 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
92	RFW009850037	FRP 84 DEGREE EQUAL TEE SIZE OF 150 NB O F PN 10 RATING.	1	1	NO	24-Jun-21	STORES/BARH-II SITE	
93	RFW009850038	FRP 84 DEGREE EQUAL TEE SIZE OF 200 NB O F PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
94	RFW009850039	FRP 84 DEGREE EQUAL TEE SIZE OF 250 NB O F PN 10 RATING.	1	1	NO	24-Jun-21	STORES/BARH-II SITE	

95	RFW009850040	FRP UNEQUAL TEE SIZE OF 100 X 50 NB OF P N 10 RATING.	1	6	NO	24-Jun-21	STORES/BARH-II SITE	
96	RFW009850041	FRP UNEQUAL TEE SIZE OF 200 X 150 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
97	RFW009850042	FRP UNEQUAL TEE SIZE OF 250 X 200 NB OF PN 10 RATING.	1	9	NO	24-Jun-21	STORES/BARH-II SITE	
98	RFW009850043	FRP CONCENTRIC REDUCER SIZE OF 50 X 25 N B OF PN 10 RATING.	1	7	NO	24-Jun-21	STORES/BARH-II SITE	
99	RFW009850044	FRP CONCENTRIC REDUCER SIZE OF 100 X 50 NB OF PN 10 RATING.	1	9	NO	24-Jun-21	STORES/BARH-II SITE	
100	RFW009850045	FRP CONCENTRIC REDUCER SIZE OF 150 X 100 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
101	RFW009850046	FRP CONCENTRIC REDUCER SIZE OF 150 X 125 NB OF PN 10 RATING.	1	18	NO	24-Jun-21	STORES/BARH-II SITE	
102	RFW009850047	FRP CONCENTRIC REDUCER SIZE OF 200 X 100 NB OF PN 10 RATING.	1	7	NO	24-Jun-21	STORES/BARH-II SITE	
103	RFW009850048	FRP CONCENTRIC REDUCER SIZE OF 250 X 150 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
104	RFW009850049	FRP CONCENTRIC REDUCER SIZE OF 250 X 200 NB OF PN 10 RATING.	1	3	NO	24-Jun-21	STORES/BARH-II SITE	
105	RFW009850050	FRP ECCENTRIC REDUCER SIZE OF 100 X 50 N B OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
106	RFW009850051	FRP ECCENTRIC REDUCER SIZE OF 200 X 125 NB OF PN 10 RATING.	1	3	NO	24-Jun-21	STORES/BARH-II SITE	
107	RFW009850052	FRP ECCENTRIC REDUCER SIZE OF 250 X 125 NB OF PN 10 RATING.	1	1	NO	24-Jun-21	STORES/BARH-II SITE	
108	RFW009850053	FRP ECCENTRIC REDUCER SIZE OF 250 X 200 NB OF PN 10 RATING.	1	29	NO	24-Jun-21	STORES/BARH-II SITE	
109	RFW009850054	FRP FLANGE SIZE OF 80 NB OF PN 10 RATING .	1	60	NO	24-Jun-21	STORES/BARH-II SITE	
110	RFW009850055	FRP FLANGE SIZE OF 100 NB OF PN 10 RATIN G.	1	80	NO	24-Jun-21	STORES/BARH-II SITE	
111	RFW009850056	FRP FLANGE SIZE OF 125 NB OF PN 10 RATIN G.	1	131	NO	24-Jun-21	STORES/BARH-II SITE	
112	RFW009850057	FRP FLANGE SIZE OF 150 NB OF PN 10 RATIN G.	1	235	NO	24-Jun-21	STORES/BARH-II SITE	
113	RFW009850058	FRP FLANGE SIZE OF 200 NB OF PN 10 RATIN G.	1	130	NO	24-Jun-21	STORES/BARH-II SITE	
114	RFW009850059	FRP FLANGE SIZE OF 250 NB OF PN 10 RATIN G.	1	90	NO	24-Jun-21	STORES/BARH-II SITE	
115	RFW009850060	FRP BLIND FLANGE SIZE OF 150 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
116	RFW009850061	FRP BLIND FLANGE SIZE OF 200 NB OF PN 10 RATING.	1	1	NO	24-Jun-21	STORES/BARH-II SITE	
117	RFW009850062	FRP BLIND FLANGE SIZE OF 250 NB OF PN 10 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
118	RFW009850063	FRP STUB FLANGE SIZE OF 25 NB OF PN 10 R ATING.	1	7	NO	24-Jun-21	STORES/BARH-II SITE	
119	RFW009850064	FRP STUB FLANGE SIZE OF 50 NB OF PN 10 R ATING.	1	312	NO	24-Jun-21	STORES/BARH-II SITE	
120	RFW009850065	FRP PIPE SIZE OF 50 NB OF PN16 RATING.	1	10	MR	24-Jun-21	STORES/BARH-II SITE	
121	RFW009850066	FRP PIPE SIZE OF 100 NB OF PN16 RATING.	1	630	MR	24-Jun-21	STORES/BARH-II SITE	
122	RFW009850067	FRP PIPE SIZE OF 125 NB OF PN16 RATING.	1	2640	MR	24-Jun-21	STORES/BARH-II SITE	
123	RFW009850068	FRP PIPE SIZE OF 150 NB OF PN16 RATING.	1	2570	MR	24-Jun-21	STORES/BARH-II SITE	
124	RFW009850069	FRP 45 DEGREE ELBOW SIZE OF 100 NB OF PN 16 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
125	RFW009850070	FRP 90 DEGREE ELBOW SIZE OF 50 NB OF PN 16 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
126	RFW009850071	FRP 90 DEGREE ELBOW SIZE OF 100 NB OF PN 16 RATING.	1	60	NO	24-Jun-21	STORES/BARH-II SITE	
127	RFW009850072	FRP 90 DEGREE ELBOW SIZE OF 125 NB OF PN 16 RATING.	1	72	NO	24-Jun-21	STORES/BARH-II SITE	
128	RFW009850073	FRP 90 DEGREE ELBOW SIZE OF 150 NB OF PN 16 RATING.	1	60	NO	24-Jun-21	STORES/BARH-II SITE	
129	RFW009850074	FRP EQUAL TEE SIZE OF 100 NB OF PN 16 RA TING.	1	5	NO	24-Jun-21	STORES/BARH-II SITE	
130	RFW009850075	FRP EQUAL TEE SIZE OF 125 NB OF PN 16 RA TING.	1	4	NO	24-Jun-21	STORES/BARH-II SITE	
131	RFW009850076	FRP EQUAL TEE SIZE OF 150 NB OF PN 16 RA TING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
132	RFW009850077	FRP UNEQUAL TEE SIZE OF 125 X 100 NB OF PN 16 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
133	RFW009850078	FRP UNEQUAL TEE SIZE OF 150 X 125 NB OF PN 16 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	

134	RFW009850079	FRP CONCENTRIC REDUCER SIZE OF 125 X 100 NB OF PN 16 RATING.	1	1	NO	24-Jun-21	STORES/BARH-II SITE	
135	RFW009850080	FRP ECCENTRIC REDUCER SIZE OF 125 X 100 NB OF PN 16 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
136	RFW009850081	FRP ECCENTRIC REDUCER SIZE OF 150 X 100 NB OF PN 16 RATING.	1	2	NO	24-Jun-21	STORES/BARH-II SITE	
137	RFW009850082	FRP FIXED FLANGE SIZE OF 100 NB OF PN 16 RATING.	1	48	NO	24-Jun-21	STORES/BARH-II SITE	
138	RFW009850083	FRP FIXED FLANGE SIZE OF 125 NB OF PN 16 RATING.	1	84	NO	24-Jun-21	STORES/BARH-II SITE	
139	RFW009850084	FRP FIXED FLANGE SIZE OF 150 NB OF PN 16 RATING.	1	37	NO	24-Jun-21	STORES/BARH-II SITE	
140	RFW009850085	FRP STUB FLANGE SIZE OF 50 NB OF PN 16 RATING.	1	78	NO	24-Jun-21	STORES/BARH-II SITE	
141	RFW009860001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC:ROS1057 AT BAR H-II PROJECT SITE.	1	1	LT	24-Jun-21	STORES/BARH-II SITE	

Enqslno	Materialcode	Description	Lot no	Qty	Unit	Dely dt	Destination	Bidder Response
142	RFW009870001	FRP PIPE OF SIZE 50 NB OF PN10 RATING.	1	580	MR	24-May-21	STORES/BARH-I SITE	
143	RFW009870002	FRP PIPE OF SIZE 80 NB OF PN10 RATING.	1	170	MR	24-May-21	STORES/BARH-I SITE	
144	RFW009870003	FRP PIPE OF SIZE 100 NB OF PN10 RATING.	1	520	MR	24-May-21	STORES/BARH-I SITE	
145	RFW009870004	FRP PIPE OF SIZE 125 NB OF PN10 RATING.	1	120	MR	24-May-21	STORES/BARH-I SITE	
146	RFW009870005	FRP PIPE OF SIZE 150 NB OF PN10 RATING.	1	1210	MR	24-May-21	STORES/BARH-I SITE	
147	RFW009870006	FRP PIPE OF SIZE 200 NB OF PN10 RATING.	1	1520	MR	24-May-21	STORES/BARH-I SITE	
148	RFW009870007	FRP PIPE OF SIZE 250 NB OF PN10 RATING.	1	2550	MR	24-May-21	STORES/BARH-I SITE	
149	RFW009870008	FRP 45 DEGREE ELBOW OF SIZE 50 NB OF PN 10 RATING.	1	14	NO	24-May-21	STORES/BARH-I SITE	
150	RFW009870009	FRP 45 DEGREE ELBOW OF SIZE 100 NB OF P N10 RATING.	1	7	NO	24-May-21	STORES/BARH-I SITE	
151	RFW009870010	FRP 45 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	1	29	NO	24-May-21	STORES/BARH-I SITE	
152	RFW009870011	FRP 45 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	1	17	NO	24-May-21	STORES/BARH-I SITE	
153	RFW009870012	FRP 45 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	1	6	NO	24-May-21	STORES/BARH-I SITE	
154	RFW009870013	FRP 30 DEGREE ELBOW OF SIZE 250 NB OF PN10 RATING.	1	7	NO	24-May-21	STORES/BARH-I SITE	
155	RFW009870014	FRP 60 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	1	7	NO	24-May-21	STORES/BARH-I SITE	
156	RFW009870015	FRP 60 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
157	RFW009870016	FRP 75 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	1	29	NO	24-May-21	STORES/BARH-I SITE	
158	RFW009870017	FRP 75 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	1	43	NO	24-May-21	STORES/BARH-I SITE	
159	RFW009870018	FRP 84 DEGREE ELBOW OF SIZE 50 NB OF PN 10 RATING.	1	10	NO	24-May-21	STORES/BARH-I SITE	
160	RFW009870019	FRP 84 DEGREE ELBOW OF SIZE 80 NB OF PN 10 RATING.	1	36	NO	24-May-21	STORES/BARH-I SITE	
161	RFW009870020	FRP 84 DEGREE ELBOW OF SIZE 100 NB OF P N10 RATING.	1	34	NO	24-May-21	STORES/BARH-I SITE	
162	RFW009870021	FRP 84 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	1	61	NO	24-May-21	STORES/BARH-I SITE	
163	RFW009870022	FRP 84 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	1	10	NO	24-May-21	STORES/BARH-I SITE	
164	RFW009870023	FRP 84 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	1	7	NO	24-May-21	STORES/BARH-I SITE	
165	RFW009870024	FRP 90 DEGREE ELBOW OF SIZE 50 NB OF PN 10 RATING.	1	174	NO	24-May-21	STORES/BARH-I SITE	
166	RFW009870025	FRP 90 DEGREE ELBOW OF SIZE 80 NB OF PN 10 RATING.	1	36	NO	24-May-21	STORES/BARH-I SITE	
167	RFW009870026	FRP 90 DEGREE ELBOW OF SIZE 100 NB OF P N10 RATING.	1	78	NO	24-May-21	STORES/BARH-I SITE	
168	RFW009870027	FRP 90 DEGREE ELBOW OF SIZE 125 NB OF P N10 RATING.	1	68	NO	24-May-21	STORES/BARH-I SITE	
169	RFW009870028	FRP 90 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	1	233	NO	24-May-21	STORES/BARH-I SITE	
170	RFW009870029	FRP 90 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	1	175	NO	24-May-21	STORES/BARH-I SITE	
171	RFW009870030	FRP 90 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	1	209	NO	24-May-21	STORES/BARH-I SITE	
172	RFW009870031	FRP EQUAL TEE OF SIZE 50 NB OF PN10 RAT ING.	1	25	NO	24-May-21	STORES/BARH-I SITE	
173	RFW009870032	FRP EQUAL TEE OF SIZE 100 NB OF PN10 RA TING.	1	2	NO	24-May-21	STORES/BARH-I SITE	
174	RFW009870033	FRP EQUAL TEE OF SIZE 125 NB OF PN10 RA TING.	1	7	NO	24-May-21	STORES/BARH-I SITE	
175	RFW009870034	FRP EQUAL TEE OF SIZE 150 NB OF PN10 RA TING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
176	RFW009870035	FRP EQUAL TEE OF SIZE 200 NB OF PN10 RA TING.	1	20	NO	24-May-21	STORES/BARH-I SITE	
177	RFW009870036	FRP EQUAL TEE OF SIZE 250 NB OF PN10 RA TING.	1	14	NO	24-May-21	STORES/BARH-I SITE	
178	RFW009870037	FRP UNEQUAL TEE OF SIZE 100X50 NB OF PN 10 RATING.	1	8	NO	24-May-21	STORES/BARH-I SITE	
179	RFW009870038	FRP UNEQUAL TEE OF SIZE 200X150 NB OF P N10 RATING.	1	3	NO	24-May-21	STORES/BARH-I SITE	

180	RFW009870039	FRP UNEQUAL TEE OF SIZE 250X200 NB OF P N10 RATING.	1	10	NO	24-May-21	STORES/BARH-I SITE	
181	RFW009870040	FRP 84 DEGREE EQUAL TEE OF SIZE 50 NB OF P N10 RATING.	1	2	NO	24-May-21	STORES/BARH-I SITE	
182	RFW009870041	FRP 84 DEGREE EQUAL TEE OF SIZE 200 NB OF P N10 RATING.	1	2	NO	24-May-21	STORES/BARH-I SITE	
183	RFW009870042	FRP 84 DEGREE EQUAL TEE OF SIZE 250 NB OF P N10 RATING.	1	1	NO	24-May-21	STORES/BARH-I SITE	
184	RFW009870043	FRP CONCENTRIC REDUCER OF SIZE 50X25 NB OF P N10 RATING.	1	10	NO	24-May-21	STORES/BARH-I SITE	
185	RFW009870044	FRP CONCENTRIC REDUCER OF SIZE 100X50 NB OF P N10 RATING.	1	13	NO	24-May-21	STORES/BARH-I SITE	
186	RFW009870045	FRP CONCENTRIC REDUCER OF SIZE 150X100 NB OF P N10 RATING.	1	3	NO	24-May-21	STORES/BARH-I SITE	
187	RFW009870046	FRP CONCENTRIC REDUCER OF SIZE 150X125 NB OF P N10 RATING.	1	26	NO	24-May-21	STORES/BARH-I SITE	
188	RFW009870047	FRP CONCENTRIC REDUCER OF SIZE 200X100 NB OF P N10 RATING.	1	11	NO	24-May-21	STORES/BARH-I SITE	
189	RFW009870048	FRP CONCENTRIC REDUCER OF SIZE 250X150 NB OF P N10 RATING.	1	3	NO	24-May-21	STORES/BARH-I SITE	
190	RFW009870049	FRP CONCENTRIC REDUCER OF SIZE 250X200 NB OF P N10 RATING.	1	3	NO	24-May-21	STORES/BARH-I SITE	
191	RFW009870050	FRP ECCENTRIC REDUCER OF SIZE 100X50 NB OF P N10 RATING.	1	3	NO	24-May-21	STORES/BARH-I SITE	
192	RFW009870051	FRP ECCENTRIC REDUCER OF SIZE 250X125 NB OF P N10 RATING.	1	3	NO	24-May-21	STORES/BARH-I SITE	
193	RFW009870052	FRP ECCENTRIC REDUCER OF SIZE 250X200 NB OF P N10 RATING.	1	26	NO	24-May-21	STORES/BARH-I SITE	
194	RFW009870053	FRP FLANGE OF SIZE 80 NB OF P N10 RATING .	1	90	NO	24-May-21	STORES/BARH-I SITE	
195	RFW009870054	FRP FLANGE OF SIZE 100 NB OF P N10 RATING .	1	108	NO	24-May-21	STORES/BARH-I SITE	
196	RFW009870055	FRP FLANGE OF SIZE 125 NB OF P N10 RATING .	1	182	NO	24-May-21	STORES/BARH-I SITE	
197	RFW009870056	FRP FLANGE OF SIZE 150 NB OF P N10 RATING .	1	310	NO	24-May-21	STORES/BARH-I SITE	
198	RFW009870057	FRP FLANGE OF SIZE 200 NB OF P N10 RATING .	1	180	NO	24-May-21	STORES/BARH-I SITE	
199	RFW009870058	FRP FLANGE OF SIZE 250 NB OF P N10 RATING .	1	125	NO	24-May-21	STORES/BARH-I SITE	
200	RFW009870059	FRP BLIND FLANGE OF SIZE 150 NB OF P N10 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
201	RFW009870060	FRP BLIND FLANGE OF SIZE 200 NB OF P N10 RATING.	1	1	NO	24-May-21	STORES/BARH-I SITE	
202	RFW009870061	FRP BLIND FLANGE OF SIZE 250 NB OF P N10 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
203	RFW009870062	FRP STUB FLANGE OF SIZE 25 NB OF P N10 RATING.	1	11	NO	24-May-21	STORES/BARH-I SITE	
204	RFW009870063	FRP STUB FLANGE OF SIZE 50 NB OF P N10 RATING.	1	418	NO	24-May-21	STORES/BARH-I SITE	
205	RFW009870064	FRP PIPE OF SIZE 50 NB OF P N16 RATING.	1	10	MR	24-May-21	STORES/BARH-I SITE	
206	RFW009870065	FRP PIPE OF SIZE 80 NB OF P N16 RATING.	1	550	MR	24-May-21	STORES/BARH-I SITE	
207	RFW009870066	FRP PIPE OF SIZE 100 NB OF P N16 RATING.	1	10	MR	24-May-21	STORES/BARH-I SITE	
208	RFW009870067	FRP PIPE OF SIZE 150 NB OF P N16 RATING.	1	10	MR	24-May-21	STORES/BARH-I SITE	
209	RFW009870068	FRP 90 DEGREE ELBOW OF SIZE 80 NB OF P N16 RATING.	1	36	NO	24-May-21	STORES/BARH-I SITE	
210	RFW009870069	FRP 90 DEGREE ELBOW OF SIZE 100 NB OF P N16 RATING.	1	10	NO	24-May-21	STORES/BARH-I SITE	
211	RFW009870070	FRP 90 DEGREE ELBOW OF SIZE 150 NB OF P N16 RATING.	1	8	NO	24-May-21	STORES/BARH-I SITE	
212	RFW009870071	FRP EQUAL TEE OF SIZE 150 NB OF P N16 RATING.	1	1	NO	24-May-21	STORES/BARH-I SITE	
213	RFW009870072	FRP UNEQUAL TEE OF SIZE 150X100 NB OF P N16 RATING.	1	1	NO	24-May-21	STORES/BARH-I SITE	
214	RFW009870073	FRP UNEQUAL TEE OF SIZE 150X80 NB OF P N16 RATING.	1	1	NO	24-May-21	STORES/BARH-I SITE	
215	RFW009870074	FRP CONCENTRIC REDUCER OF SIZE 150X100 NB OF P N16 RATING.	1	2	NO	24-May-21	STORES/BARH-I SITE	
216	RFW009870075	FRP FIXED FLANGE OF SIZE 80 NB OF P N16 RATING.	1	12	NO	24-May-21	STORES/BARH-I SITE	
217	RFW009870076	FRP FIXED FLANGE OF SIZE 100 NB OF P N16 RATING.	1	14	NO	24-May-21	STORES/BARH-I SITE	

218	RFW009870077	FRP FIXED FLANGE OF SIZE 150 NB OF PN16 RATING.	1	5	NO	24-May-21	STORES/BARH-I SITE	
219	RFW009870078	FRP STUB FLANGE OF SIZE 50 NB OF PN16 RATING.	1	14	NO	24-May-21	STORES/BARH-I SITE	
220	RFW009870079	FRP PIPE OF SIZE 100 NB OF PN25 RATING.	1	40	MR	24-May-21	STORES/BARH-I SITE	
221	RFW009870080	FRP PIPE OF SIZE 125 NB OF PN25 RATING.	1	7250	MR	24-May-21	STORES/BARH-I SITE	
222	RFW009870081	FRP PIPE OF SIZE 150 NB OF PN25 RATING.	1	7190	MR	24-May-21	STORES/BARH-I SITE	
223	RFW009870082	FRP 45 DEGREE ELBOW OF SIZE 100 NB OF PN25 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
224	RFW009870083	FRP 90 DEGREE ELBOW OF SIZE 100 NB OF PN25 RATING.	1	14	NO	24-May-21	STORES/BARH-I SITE	
225	RFW009870084	FRP 90 DEGREE ELBOW OF SIZE 125 NB OF PN25 RATING.	1	164	NO	24-May-21	STORES/BARH-I SITE	
226	RFW009870085	FRP 90 DEGREE ELBOW OF SIZE 150 NB OF PN25 RATING.	1	157	NO	24-May-21	STORES/BARH-I SITE	
227	RFW009870086	FRP EQUAL TEE OF SIZE 100 NB OF PN25 RATING.	1	7	NO	24-May-21	STORES/BARH-I SITE	
228	RFW009870087	FRP EQUAL TEE OF SIZE 125 NB OF PN25 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
229	RFW009870088	FRP EQUAL TEE OF SIZE 150 NB OF PN25 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
230	RFW009870089	FRP UNEQUAL TEE OF SIZE 150X125 NB OF PN25 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
231	RFW009870090	FRP ECCENTRIC REDUCER OF SIZE 150X100 NB OF PN25 RATING.	1	4	NO	24-May-21	STORES/BARH-I SITE	
232	RFW009870091	FRP FLANGE OF SIZE 100 NB OF PN25 RATING.	1	44	NO	24-May-21	STORES/BARH-I SITE	
233	RFW009870092	FRP FLANGE OF SIZE 125 NB OF PN25 RATING.	1	132	NO	24-May-21	STORES/BARH-I SITE	
234	RFW009870093	FRP FLANGE OF SIZE 150 NB OF PN25 RATING.	1	82	NO	24-May-21	STORES/BARH-I SITE	
235	RFW009870094	FRP STUB FLANGE OF SIZE 50 NB OF PN25 RATING.	1	85	NO	24-May-21	STORES/BARH-I SITE	
236	RFW009880001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC:ROS1057 AT BARH-I PROJECT SITE.	1	1	LT	24-May-21	STORES/BARH-I SITE	

Enqslno	Materialcode	Description	Lot no	Qty	Unit	Dely dt	Destination	Bidder Response
237	RFW009920001	FRP PIPE OF SIZE 25NB OF PN10 RATING.	1	10	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
238	RFW009920002	FRP PIPE OF SIZE 40NB OF PN10 RATING.	1	40	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
239	RFW009920003	FRP PIPE OF SIZE 50NB OF PN10 RATING.	1	310	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
240	RFW009920004	FRP PIPE OF SIZE 80NB OF PN10 RATING.	1	160	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
241	RFW009920005	FRP PIPE OF SIZE 100NB OF PN10 RATING.	1	770	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
242	RFW009920006	FRP PIPE OF SIZE 150NB OF PN10 RATING.	1	1340	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
243	RFW009920007	FRP PIPE OF SIZE 200NB OF PN10 RATING.	1	1150	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
244	RFW009920008	FRP PIPE OF SIZE 250NB OF PN10 RATING.	1	2270	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
245	RFW009920009	FRP 45 DEGREE ELBOW OF SIZE 40NB OF PN10 RATING.	1	14	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
246	RFW009920010	FRP 45 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	1	14	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
247	RFW009920011	FRP 45 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	1	60	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
248	RFW009920012	FRP 45 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
249	RFW009920013	FRP 45 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	1	14	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
250	RFW009920014	FRP 60 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	1	7	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
251	RFW009920015	FRP 60 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
252	RFW009920016	FRP 60 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	1	24	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
253	RFW009920017	FRP 75 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	1	36	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
254	RFW009920018	FRP 75 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	1	36	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
255	RFW009920019	FRP 84 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING.	1	14	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
256	RFW009920020	FRP 84 DEGREE ELBOW OF SIZE 80NB OF PN10 RATING.	1	36	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
257	RFW009920021	FRP 84 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	1	34	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
258	RFW009920022	FRP 84 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	1	76	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
259	RFW009920023	FRP 84 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	1	23	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
260	RFW009920024	FRP 84 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
261	RFW009920025	FRP 90 DEGREE ELBOW OF SIZE 25NB OF PN10 RATING.	1	7	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
262	RFW009920026	FRP 90 DEGREE ELBOW OF SIZE 40NB OF PN10 RATING.	1	36	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
263	RFW009920027	FRP 90 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING.	1	158	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
264	RFW009920028	FRP 90 DEGREE ELBOW OF SIZE 80NB OF PN10 RATING.	1	53	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
265	RFW009920029	FRP 90 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	1	443	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
266	RFW009920030	FRP 90 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	1	120	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
267	RFW009920031	FRP 90 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	1	134	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
268	RFW009920032	FRP 90 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	1	154	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
269	RFW009920033	FRP STUB FLANGE OF SIZE 25NB OF PN10 RATING.	1	22	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
270	RFW009920034	FRP STUB FLANGE OF SIZE 40NB OF PN10 RATING.	1	58	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
271	RFW009920035	FRP STUB FLANGE OF SIZE 50NB OF PN10 RATING.	1	329	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
272	RFW009920036	FRP FLANGE OF SIZE 80NB OF PN 10 RATING.	1	61	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	

273	RFW009920037	FRP FLANGE OF SIZE 100NB OF PN 10 RATING .	1	546	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
274	RFW009920038	FRP FLANGE OF SIZE 125NB OF PN 10 RATING .	1	36	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
275	RFW009920039	FRP FLANGE OF SIZE 150NB OF PN 10 RATING .	1	187	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
276	RFW009920040	FRP FLANGE OF SIZE 200NB OF PN 10 RATING .	1	157	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
277	RFW009920041	FRP FLANGE OF SIZE 250NB OF PN 10 RATING .	1	119	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
278	RFW009920042	FRP BLIND FLANGE OF SIZE 150NB OF PN 10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
279	RFW009920043	FRP 90 DEGREE EQUAL TEE OF SIZE 50NB OF PN 10 RATING.	1	22	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
280	RFW009920044	FRP 90 DEGREE EQUAL TEE OF SIZE 100NB OF PN 10 RATING.	1	2	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
281	RFW009920045	FRP 90 DEGREE EQUAL TEE OF SIZE 250NB OF PN 10 RATING.	1	24	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
282	RFW009920046	FRP 84 DEGREE EQUAL TEE OF SIZE 50NB OF PN 10 RATING.	1	1	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
283	RFW009920047	FRP 90 DEGREE UNEQUAL TEE OF SIZE 50X25NB OF PN 10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
284	RFW009920048	FRP 90 DEGREE UNEQUAL TEE OF SIZE 100X50NB OF PN 10 RATING.	1	13	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
285	RFW009920049	FRP 90 DEGREE UNEQUAL TEE OF SIZE 200X150NB OF PN 10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
286	RFW009920050	FRP 90 DEGREE UNEQUAL TEE OF SIZE 250X200NB OF PN 10 RATING.	1	7	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
287	RFW009920051	FRP 84 DEGREE UNEQUAL TEE OF SIZE 250X200NB OF PN 10 RATING.	1	1	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
288	RFW009920052	FRP CONCENTRIC REDUCER OF SIZE 50X25 OF PN10 RATING.	1	14	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
289	RFW009920053	FRP CONCENTRIC REDUCER OF SIZE 80X50 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
290	RFW009920054	FRP CONCENTRIC REDUCER OF SIZE 100X50 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
291	RFW009920055	FRP CONCENTRIC REDUCER OF SIZE 150X80 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
292	RFW009920056	FRP CONCENTRIC REDUCER OF SIZE 150X100 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
293	RFW009920057	FRP CONCENTRIC REDUCER OF SIZE 150X125 OF PN10 RATING.	1	36	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
294	RFW009920058	FRP CONCENTRIC REDUCER OF SIZE 200X100 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
295	RFW009920059	FRP CONCENTRIC REDUCER OF SIZE 250X150 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
296	RFW009920060	FRP CONCENTRIC REDUCER OF SIZE 250X200 OF PN10 RATING.	1	17	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
297	RFW009920061	FRP FLANGE CONCENTRIC REDUCER OF SIZE 100X50 NB OF PN 10 RATING..	1	7	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
298	RFW009920062	FRP ECCENTRIC REDUCER OF SIZE 100X50 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
299	RFW009920063	FRP ECCENTRIC REDUCER OF SIZE 200X150 OF PN10 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
300	RFW009920064	FRP ECCENTRIC REDUCER OF SIZE 250X200 OF PN10 RATING.	1	42	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
301	RFW009920065	FRP PIPE OF SIZE 50NB OF PN16 RATING.	1	50	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
302	RFW009920066	FRP PIPE OF SIZE 100NB OF PN16 RATING.	1	1170	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
303	RFW009920067	FRP PIPE OF SIZE 125NB OF PN16 RATING.	1	1050	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
304	RFW009920068	FRP PIPE OF SIZE 150NB OF PN16 RATING.	1	880	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
305	RFW009920069	FRP PIPE OF SIZE 200NB OF PN16 RATING.	1	10	MR	24-Feb-21	STORES/NORTH KARANPURA SITE	
306	RFW009920070	FRP 45 DEGREE ELBOW OF SIZE 100NB OF PN16 RATING.	1	13	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
307	RFW009920071	FRP 45 DEGREE ELBOW OF SIZE 125NB OF PN16 RATING.	1	2	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
308	RFW009920072	FRP 90 DEGREE ELBOW OF SIZE 50NB OF PN16 RATING.	1	14	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
309	RFW009920073	FRP 90 DEGREE ELBOW OF SIZE 100NB OF PN16 RATING.	1	58	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	

310	RFW009920074	FRP 90 DEGREE ELBOW OF SIZE 125NB OF PN16 RATING.	1	89	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
311	RFW009920075	FRP 90 DEGREE ELBOW OF SIZE 150NB OF PN16 RATING.	1	85	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
312	RFW009920076	FRP 90 DEGREE ELBOW OF SIZE 200NB OF PN16 RATING.	1	6	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
313	RFW009920077	FRP FLANGE OF SIZE 50NB OF PN 16 RATING.	1	72	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
314	RFW009920078	FRP FLANGE OF SIZE 100NB OF PN 16 RATING .	1	49	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
315	RFW009920079	FRP FLANGE OF SIZE 125NB OF PN 16 RATING .	1	73	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
316	RFW009920080	FRP FLANGE OF SIZE 150NB OF PN 16 RATING .	1	29	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
317	RFW009920081	FRP FLANGE OF SIZE 200NB OF PN 16 RATING .	1	5	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
318	RFW009920082	FRP EQUAL TEE OF SIZE 125NB OF PN16 RATING	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
319	RFW009920083	FRP EQUAL TEE OF SIZE 150NB OF PN16 RATING	1	7	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
320	RFW009920084	FRP EQUAL TEE OF SIZE 200NB OF PN16 RATING	1	2	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
321	RFW009920085	FRP UNEQUAL TEE OF SIZE 200X100NB OF PN16 RATING	1	1	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
322	RFW009920086	FRP CONCENTRIC REDUCER OF SIZE 150X100 OF PN16 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
323	RFW009920087	FRP CONCENTRIC REDUCER OF SIZE 200X100 OF PN16 RATING.	1	1	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
324	RFW009920088	FRP CONCENTRIC REDUCER OF SIZE 200X125 OF PN16 RATING.	1	1	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
325	RFW009920089	FRP ECCENTRIC REDUCER OF SIZE 150X125 OF PN16 RATING.	1	4	NO	24-Feb-21	STORES/NORTH KARANPURA SITE	
326	RFW009930001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC:ROS1057 AT NORTH KARANPURA PROJECT SITE.	1	1	LT	24-Feb-21	STORES/NORTH KARANPURA SITE	

Enq sno	Material code	Item Description	Qty	Unit	Unit rate in INR	Total rate in INR
1	RFW009690001	FRP PIPE OF SIZE 50 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	660	MR		
2	RFW009690002	FRP PIPE OF SIZE 80 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	570	MR		
3	RFW009690003	FRP PIPE OF SIZE 100 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	130	MR		
4	RFW009690004	FRP PIPE OF SIZE 125 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	810	MR		
5	RFW009690005	FRP PIPE OF SIZE 150 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	1080	MR		
6	RFW009690006	FRP PIPE OF SIZE 200 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	2280	MR		
7	RFW009690007	FRP PIPE OF SIZE 250 NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	750	MR		
8	RFW009690008	FRP 45 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	48	NO		
9	RFW009690009	FRP 45 DEGREE ELBOW OF SIZE 80NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	5	NO		
10	RFW009690010	FRP 45 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	7	NO		
11	RFW009690011	FRP 45 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	12	NO		
12	RFW009690012	FRP 45 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	14	NO		
13	RFW009690013	FRP 45 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	5	NO		
14	RFW009690014	FRP 60 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	NO		
15	RFW009690015	FRP 60 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	2	NO		
16	RFW009690016	FRP 75 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	19	NO		
17	RFW009690017	FRP 75 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	24	NO		
18	RFW009690018	FRP 84 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	12	NO		
19	RFW009690019	FRP 84 DEGREE ELBOW OF SIZE 125NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	7	NO		
20	RFW009690020	FRP 84 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	54	NO		
21	RFW009690021	FRP 84 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING. AS PER TECH SPEC:ROS:1057 R00	14	NO		
22	RFW009690022	FRP 84 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	12	NO		

23	RFW009690023	FRP 90 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	144	NO		
24	RFW009690024	FRP 90 DEGREE ELBOW OF SIZE 80NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	36	NO		
25	RFW009690025	FRP 90 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	24	NO		
26	RFW009690026	FRP 90 DEGREE ELBOW OF SIZE 125NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	144	NO		
27	RFW009690027	FRP 90 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	138	NO		
28	RFW009690028	FRP 90 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	150	NO		
29	RFW009690029	FRP 90 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	48	NO		
30	RFW009690030	FRP EQUAL TEE OF SIZE 50NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	18	NO		
31	RFW009690031	FRP EQUAL TEE OF SIZE 100NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	NO		
32	RFW009690032	FRP EQUAL TEE OF SIZE 125NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	8	NO		
33	RFW009690033	FRP EQUAL TEE OF SIZE 150NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	5	NO		
34	RFW009690034	FRP EQUAL TEE OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	18	NO		
35	RFW009690035	FRP EQUAL TEE OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	7	NO		
36	RFW009690036	FRP UNEQUAL TEE OF SIZE 100 X 50 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	5	NO		
37	RFW009690037	FRP UNEQUAL TEE OF SIZE 150 X 125 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	2	NO		
38	RFW009690038	FRP UNEQUAL TEE OF SIZE 250 X 200 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	2	NO		
39	RFW009690039	FRP 84 DEGREE EQUAL TEE OF SIZE 200NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	5	NO		
40	RFW009690040	FRP 84 DEGREE EQUAL TEE OF SIZE 250NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	NO		
41	RFW009690041	FRP 84 DEGREE UNEQUAL TEE OF SIZE 250 X 150 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	10	NO		
42	RFW009690042	FRP CONCENTRIC REDUCER OF SIZE 200 X 125 NB OF PN10 RATING	2	NO		
43	RFW009690043	FRP CONCENTRIC REDUCER OF SIZE 200 X 150 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	2	NO		
44	RFW009690044	FRP ECCENTRIC REDUCER OF SIZE 100 X 50 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	2	NO		
45	RFW009690045	FRP ECCENTRIC REDUCER OF SIZE 125 X 80 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	1	NO		

46	RFW009690046	FRP ECCENTRIC REDUCER OF SIZE 200 X 150 NB OF PN10 RATING AS PER TECH SPEC:ROS:1057 R00	10	NO		
47	RFW009690047	FRP ECCENTRIC REDUCER OF SIZE 250 X 200 NB OF PN10 RATING	24	NO		
48	RFW009690048	FRP FLANGE OF SIZE 80NB OF PN10 RATING	24	NO		
49	RFW009690049	FRP FLANGE OF SIZE 100NB OF PN10 RATING	48	NO		
50	RFW009690050	FRP FLANGE OF SIZE 125NB OF PN10 RATING	108	NO		
51	RFW009690051	FRP FLANGE OF SIZE 150NB OF PN10 RATING	48	NO		
52	RFW009690052	FRP FLANGE OF SIZE 200NB OF PN10 RATING	128	NO		
53	RFW009690053	FRP FLANGE OF SIZE 250NB OF PN10 RATING	29	NO		
54	RFW009690054	FRP STUB FLANGE OF SIZE 50NB OF PN10 RATING	462	NO		
55	RFW009710001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC: ROS1057 AT MOUDA (2 X 500MW) PROJECT SITE.	1	LT		

Enq sno	Material code	Item Description	Qty	Unit	Unit rate in INR	Total rate in INR
56	RFW009850001	FRP PIPE SIZE OF 50 NB OF PN10 RATING.	460	MR		
57	RFW009850002	FRP PIPE SIZE OF 80 NB OF PN10 RATING.	110	MR		
58	RFW009850003	FRP PIPE SIZE OF 100 NB OF PN10 RATING.	410	MR		
59	RFW009850004	FRP PIPE SIZE OF 125 NB OF PN10 RATING.	90	MR		
60	RFW009850005	FRP PIPE SIZE OF 150 NB OF PN10 RATING.	1070	MR		
61	RFW009850006	FRP PIPE SIZE OF 200 NB OF PN10 RATING.	1700	MR		
62	RFW009850007	FRP PIPE SIZE OF 250 NB OF PN10 RATING.	1140	MR		
63	RFW009850008	FRP 45 DEGREE ELBOW SIZE OF 50 NB OF PN 10 RATING.	14	NO		
64	RFW009850009	FRP 45 DEGREE ELBOW SIZE OF 100 NB OF PN 10 RATING.	5	NO		
65	RFW009850010	FRP 45 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	29	NO		
66	RFW009850011	FRP 45 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	20	NO		
67	RFW009850012	FRP 45 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	5	NO		
68	RFW009850013	FRP 30 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	5	NO		
69	RFW009850014	FRP 60 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	5	NO		
70	RFW009850015	FRP 60 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	2	NO		
71	RFW009850016	FRP 75 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	24	NO		
72	RFW009850017	FRP 75 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	34	NO		
73	RFW009850018	FRP 84 DEGREE ELBOW SIZE OF 50 NB OF PN 10 RATING.	10	NO		
74	RFW009850019	FRP 84 DEGREE ELBOW SIZE OF 80 NB OF PN 10 RATING.	24	NO		
75	RFW009850020	FRP 84 DEGREE ELBOW SIZE OF 100 NB OF PN 10 RATING.	23	NO		
76	RFW009850021	FRP 84 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	62	NO		
77	RFW009850022	FRP 84 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	36	NO		
78	RFW009850023	FRP 90 DEGREE ELBOW SIZE OF 50 NB OF PN 10 RATING.	138	NO		
79	RFW009850024	FRP 90 DEGREE ELBOW SIZE OF 80 NB OF PN 10 RATING.	24	NO		
80	RFW009850025	FRP 90 DEGREE ELBOW SIZE OF 100 NB OF PN 10 RATING.	64	NO		
81	RFW009850026	FRP 90 DEGREE ELBOW SIZE OF 125 NB OF PN 10 RATING.	44	NO		
82	RFW009850027	FRP 90 DEGREE ELBOW SIZE OF 150 NB OF PN 10 RATING.	169	NO		
83	RFW009850028	FRP 90 DEGREE ELBOW SIZE OF 200 NB OF PN 10 RATING.	164	NO		
84	RFW009850029	FRP 90 DEGREE ELBOW SIZE OF 250 NB OF PN 10 RATING.	116	NO		
85	RFW009850030	FRP EQUAL TEE SIZE OF 50 NB OF PN 10 RAT ING.	17	NO		
86	RFW009850031	FRP EQUAL TEE SIZE OF 100 NB OF PN 10 RA TING.	2	NO		
87	RFW009850032	FRP EQUAL TEE SIZE OF 125 NB OF PN 10 RA TING.	5	NO		

88	RFW009850033	FRP EQUAL TEE SIZE OF 150 NB OF PN 10 RATING.	5	NO		
89	RFW009850034	FRP EQUAL TEE SIZE OF 200 NB OF PN 10 RATING.	12	NO		
90	RFW009850035	FRP EQUAL TEE SIZE OF 250 NB OF PN 10 RATING.	7	NO		
91	RFW009850036	FRP 84 DEGREE EQUAL TEE SIZE OF 50 NB OF PN 10 RATING.	2	NO		
92	RFW009850037	FRP 84 DEGREE EQUAL TEE SIZE OF 150 NB OF PN 10 RATING.	1	NO		
93	RFW009850038	FRP 84 DEGREE EQUAL TEE SIZE OF 200 NB OF PN 10 RATING.	2	NO		
94	RFW009850039	FRP 84 DEGREE EQUAL TEE SIZE OF 250 NB OF PN 10 RATING.	1	NO		
95	RFW009850040	FRP UNEQUAL TEE SIZE OF 100 X 50 NB OF PN 10 RATING.	6	NO		
96	RFW009850041	FRP UNEQUAL TEE SIZE OF 200 X 150 NB OF PN 10 RATING.	2	NO		
97	RFW009850042	FRP UNEQUAL TEE SIZE OF 250 X 200 NB OF PN 10 RATING.	9	NO		
98	RFW009850043	FRP CONCENTRIC REDUCER SIZE OF 50 X 25 NB OF PN 10 RATING.	7	NO		
99	RFW009850044	FRP CONCENTRIC REDUCER SIZE OF 100 X 50 NB OF PN 10 RATING.	9	NO		
100	RFW009850045	FRP CONCENTRIC REDUCER SIZE OF 150 X 100 NB OF PN 10 RATING.	2	NO		
101	RFW009850046	FRP CONCENTRIC REDUCER SIZE OF 150 X 125 NB OF PN 10 RATING.	18	NO		
102	RFW009850047	FRP CONCENTRIC REDUCER SIZE OF 200 X 100 NB OF PN 10 RATING.	7	NO		
103	RFW009850048	FRP CONCENTRIC REDUCER SIZE OF 250 X 150 NB OF PN 10 RATING.	2	NO		
104	RFW009850049	FRP CONCENTRIC REDUCER SIZE OF 250 X 200 NB OF PN 10 RATING.	3	NO		
105	RFW009850050	FRP ECCENTRIC REDUCER SIZE OF 100 X 50 NB OF PN 10 RATING.	2	NO		
106	RFW009850051	FRP ECCENTRIC REDUCER SIZE OF 200 X 125 NB OF PN 10 RATING.	3	NO		
107	RFW009850052	FRP ECCENTRIC REDUCER SIZE OF 250 X 125 NB OF PN 10 RATING.	1	NO		
108	RFW009850053	FRP ECCENTRIC REDUCER SIZE OF 250 X 200 NB OF PN 10 RATING.	29	NO		
109	RFW009850054	FRP FLANGE SIZE OF 80 NB OF PN 10 RATING .	60	NO		
110	RFW009850055	FRP FLANGE SIZE OF 100 NB OF PN 10 RATING .	80	NO		
111	RFW009850056	FRP FLANGE SIZE OF 125 NB OF PN 10 RATING .	131	NO		
112	RFW009850057	FRP FLANGE SIZE OF 150 NB OF PN 10 RATING .	235	NO		
113	RFW009850058	FRP FLANGE SIZE OF 200 NB OF PN 10 RATING .	130	NO		
114	RFW009850059	FRP FLANGE SIZE OF 250 NB OF PN 10 RATING .	90	NO		
115	RFW009850060	FRP BLIND FLANGE SIZE OF 150 NB OF PN 10 RATING.	2	NO		
116	RFW009850061	FRP BLIND FLANGE SIZE OF 200 NB OF PN 10 RATING.	1	NO		
117	RFW009850062	FRP BLIND FLANGE SIZE OF 250 NB OF PN 10 RATING.	2	NO		

118	RFW009850063	FRP STUB FLANGE SIZE OF 25 NB OF PN 10 RATING.	7	NO		
119	RFW009850064	FRP STUB FLANGE SIZE OF 50 NB OF PN 10 RATING.	312	NO		
120	RFW009850065	FRP PIPE SIZE OF 50 NB OF PN16 RATING.	10	MR		
121	RFW009850066	FRP PIPE SIZE OF 100 NB OF PN16 RATING.	630	MR		
122	RFW009850067	FRP PIPE SIZE OF 125 NB OF PN16 RATING.	2640	MR		
123	RFW009850068	FRP PIPE SIZE OF 150 NB OF PN16 RATING.	2570	MR		
124	RFW009850069	FRP 45 DEGREE ELBOW SIZE OF 100 NB OF PN 16 RATING.	2	NO		
125	RFW009850070	FRP 90 DEGREE ELBOW SIZE OF 50 NB OF PN 16 RATING.	2	NO		
126	RFW009850071	FRP 90 DEGREE ELBOW SIZE OF 100 NB OF PN 16 RATING.	60	NO		
127	RFW009850072	FRP 90 DEGREE ELBOW SIZE OF 125 NB OF PN 16 RATING.	72	NO		
128	RFW009850073	FRP 90 DEGREE ELBOW SIZE OF 150 NB OF PN 16 RATING.	60	NO		
129	RFW009850074	FRP EQUAL TEE SIZE OF 100 NB OF PN 16 RATING.	5	NO		
130	RFW009850075	FRP EQUAL TEE SIZE OF 125 NB OF PN 16 RATING.	4	NO		
131	RFW009850076	FRP EQUAL TEE SIZE OF 150 NB OF PN 16 RATING.	2	NO		
132	RFW009850077	FRP UNEQUAL TEE SIZE OF 125 X 100 NB OF PN 16 RATING.	2	NO		
133	RFW009850078	FRP UNEQUAL TEE SIZE OF 150 X 125 NB OF PN 16 RATING.	2	NO		
134	RFW009850079	FRP CONCENTRIC REDUCER SIZE OF 125 X 100 NB OF PN 16 RATING.	1	NO		
135	RFW009850080	FRP ECCENTRIC REDUCER SIZE OF 125 X 100 NB OF PN 16 RATING.	2	NO		
136	RFW009850081	FRP ECCENTRIC REDUCER SIZE OF 150 X 100 NB OF PN 16 RATING.	2	NO		
137	RFW009850082	FRP FIXED FLANGE SIZE OF 100 NB OF PN 16 RATING.	48	NO		
138	RFW009850083	FRP FIXED FLANGE SIZE OF 125 NB OF PN 16 RATING.	84	NO		
139	RFW009850084	FRP FIXED FLANGE SIZE OF 150 NB OF PN 16 RATING.	37	NO		
140	RFW009850085	FRP STUB FLANGE SIZE OF 50 NB OF PN 16 RATING.	78	NO		
141	RFW009860001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC:ROS1057 AT BAR H-II PROJECT SITE.	1	LT		

Enq sno	Material code	Item Description	Qty	Unit	Unit rate in INR	Total rate in INR
142	RFW009870001	FRP PIPE OF SIZE 50 NB OF PN10 RATING.	580	MR		
143	RFW009870002	FRP PIPE OF SIZE 80 NB OF PN10 RATING.	170	MR		
144	RFW009870003	FRP PIPE OF SIZE 100 NB OF PN10 RATING.	520	MR		
145	RFW009870004	FRP PIPE OF SIZE 125 NB OF PN10 RATING.	120	MR		
146	RFW009870005	FRP PIPE OF SIZE 150 NB OF PN10 RATING.	1210	MR		
147	RFW009870006	FRP PIPE OF SIZE 200 NB OF PN10 RATING.	1520	MR		
148	RFW009870007	FRP PIPE OF SIZE 250 NB OF PN10 RATING.	2550	MR		
149	RFW009870008	FRP 45 DEGREE ELBOW OF SIZE 50 NB OF PN 10 RATING.	14	NO		
150	RFW009870009	FRP 45 DEGREE ELBOW OF SIZE 100 NB OF P N10 RATING.	7	NO		
151	RFW009870010	FRP 45 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	29	NO		
152	RFW009870011	FRP 45 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	17	NO		
153	RFW009870012	FRP 45 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	6	NO		
154	RFW009870013	FRP 30 DEGREE ELBOW OF SIZE 250 NB OF PN10 RATING.	7	NO		
155	RFW009870014	FRP 60 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	7	NO		
156	RFW009870015	FRP 60 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	4	NO		
157	RFW009870016	FRP 75 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	29	NO		
158	RFW009870017	FRP 75 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	43	NO		
159	RFW009870018	FRP 84 DEGREE ELBOW OF SIZE 50 NB OF PN 10 RATING.	10	NO		
160	RFW009870019	FRP 84 DEGREE ELBOW OF SIZE 80 NB OF PN 10 RATING.	36	NO		
161	RFW009870020	FRP 84 DEGREE ELBOW OF SIZE 100 NB OF P N10 RATING.	34	NO		
162	RFW009870021	FRP 84 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	61	NO		
163	RFW009870022	FRP 84 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	10	NO		
164	RFW009870023	FRP 84 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	7	NO		
165	RFW009870024	FRP 90 DEGREE ELBOW OF SIZE 50 NB OF PN 10 RATING.	174	NO		
166	RFW009870025	FRP 90 DEGREE ELBOW OF SIZE 80 NB OF PN 10 RATING.	36	NO		
167	RFW009870026	FRP 90 DEGREE ELBOW OF SIZE 100 NB OF P N10 RATING.	78	NO		
168	RFW009870027	FRP 90 DEGREE ELBOW OF SIZE 125 NB OF P N10 RATING.	68	NO		
169	RFW009870028	FRP 90 DEGREE ELBOW OF SIZE 150 NB OF P N10 RATING.	233	NO		
170	RFW009870029	FRP 90 DEGREE ELBOW OF SIZE 200 NB OF P N10 RATING.	175	NO		
171	RFW009870030	FRP 90 DEGREE ELBOW OF SIZE 250 NB OF P N10 RATING.	209	NO		
172	RFW009870031	FRP EQUAL TEE OF SIZE 50 NB OF PN10 RAT ING.	25	NO		
173	RFW009870032	FRP EQUAL TEE OF SIZE 100 NB OF PN10 RA TING.	2	NO		

174	RFW009870033	FRP EQUAL TEE OF SIZE 125 NB OF PN10 RATING.	7	NO		
175	RFW009870034	FRP EQUAL TEE OF SIZE 150 NB OF PN10 RATING.	4	NO		
176	RFW009870035	FRP EQUAL TEE OF SIZE 200 NB OF PN10 RATING.	20	NO		
177	RFW009870036	FRP EQUAL TEE OF SIZE 250 NB OF PN10 RATING.	14	NO		
178	RFW009870037	FRP UNEQUAL TEE OF SIZE 100X50 NB OF PN 10 RATING.	8	NO		
179	RFW009870038	FRP UNEQUAL TEE OF SIZE 200X150 NB OF P N10 RATING.	3	NO		
180	RFW009870039	FRP UNEQUAL TEE OF SIZE 250X200 NB OF P N10 RATING.	10	NO		
181	RFW009870040	FRP 84 DEGREE EQUAL TEE OF SIZE 50 NB O F PN10 RATING.	2	NO		
182	RFW009870041	FRP 84 DEGREE EQUAL TEE OF SIZE 200 NB OF PN10 RATING.	2	NO		
183	RFW009870042	FRP 84 DEGREE EQUAL TEE OF SIZE 250 NB OF PN10 RATING.	1	NO		
184	RFW009870043	FRP CONCENTRIC REDUCER OF SIZE 50X25 N B OF PN10 RATING.	10	NO		
185	RFW009870044	FRP CONCENTRIC REDUCER OF SIZE 100X50 NB OF PN10 RATING.	13	NO		
186	RFW009870045	FRP CONCENTRIC REDUCER OF SIZE 150X100 NB OF PN10 RATING.	3	NO		
187	RFW009870046	FRP CONCENTRIC REDUCER OF SIZE 150X125 NB OF PN10 RATING.	26	NO		
188	RFW009870047	FRP CONCENTRIC REDUCER OF SIZE 200X100 NB OF PN10 RATING.	11	NO		
189	RFW009870048	FRP CONCENTRIC REDUCER OF SIZE 250X150 NB OF PN10 RATING.	3	NO		
190	RFW009870049	FRP CONCENTRIC REDUCER OF SIZE 250X200 NB OF PN10 RATING.	3	NO		
191	RFW009870050	FRP ECCENTRIC REDUCER OF SIZE 100X50 NB OF PN10 RATING.	3	NO		
192	RFW009870051	FRP ECCENTRIC REDUCER OF SIZE 250X125 NB OF PN10 RATING.	3	NO		
193	RFW009870052	FRP ECCENTRIC REDUCER OF SIZE 250X200 NB OF PN10 RATING.	26	NO		
194	RFW009870053	FRP FLANGE OF SIZE 80 NB OF PN10 RATING .	90	NO		
195	RFW009870054	FRP FLANGE OF SIZE 100 NB OF PN10 RATIN G.	108	NO		
196	RFW009870055	FRP FLANGE OF SIZE 125 NB OF PN10 RATIN G.	182	NO		
197	RFW009870056	FRP FLANGE OF SIZE 150 NB OF PN10 RATIN G.	310	NO		
198	RFW009870057	FRP FLANGE OF SIZE 200 NB OF PN10 RATIN G.	180	NO		
199	RFW009870058	FRP FLANGE OF SIZE 250 NB OF PN10 RATIN G.	125	NO		
200	RFW009870059	FRP BLIND FLANGE OF SIZE 150 NB OF PN10 RATING.	4	NO		
201	RFW009870060	FRP BLIND FLANGE OF SIZE 200 NB OF PN10 RATING.	1	NO		
202	RFW009870061	FRP BLIND FLANGE OF SIZE 250 NB OF PN10 RATING.	4	NO		
203	RFW009870062	FRP STUB FLANGE OF SIZE 25 NB OF PN10 RATING.	11	NO		
204	RFW009870063	FRP STUB FLANGE OF SIZE 50 NB OF PN10 RATING.	418	NO		
205	RFW009870064	FRP PIPE OF SIZE 50 NB OF PN16 RATING.	10	MR		
206	RFW009870065	FRP PIPE OF SIZE 80 NB OF PN16 RATING.	550	MR		

207	RFW009870066	FRP PIPE OF SIZE 100 NB OF PN16 RATING.	10	MR		
208	RFW009870067	FRP PIPE OF SIZE 150 NB OF PN16 RATING.	10	MR		
209	RFW009870068	FRP 90 DEGREE ELBOW OF SIZE 80 NB OF PN 16 RATING.	36	NO		
210	RFW009870069	FRP 90 DEGREE ELBOW OF SIZE 100 NB OF P N16 RATING.	10	NO		
211	RFW009870070	FRP 90 DEGREE ELBOW OF SIZE 150 NB OF P N16 RATING.	8	NO		
212	RFW009870071	FRP EQUAL TEE OF SIZE 150 NB OF PN16 RATING.	1	NO		
213	RFW009870072	FRP UNEQUAL TEE OF SIZE 150X100 NB OF PN 16 RATING.	1	NO		
214	RFW009870073	FRP UNEQUAL TEE OF SIZE 150X80 NB OF PN16 RATING.	1	NO		
215	RFW009870074	FRP CONCENTRIC REDUCER OF SIZE 150X100 NB OF PN16 RATING.	2	NO		
216	RFW009870075	FRP FIXED FLANGE OF SIZE 80 NB OF PN16 RATING.	12	NO		
217	RFW009870076	FRP FIXED FLANGE OF SIZE 100 NB OF PN16 RATING.	14	NO		
218	RFW009870077	FRP FIXED FLANGE OF SIZE 150 NB OF PN16 RATING.	5	NO		
219	RFW009870078	FRP STUB FLANGE OF SIZE 50 NB OF PN16 RATING.	14	NO		
220	RFW009870079	FRP PIPE OF SIZE 100 NB OF PN25 RATING.	40	MR		
221	RFW009870080	FRP PIPE OF SIZE 125 NB OF PN25 RATING.	7250	MR		
222	RFW009870081	FRP PIPE OF SIZE 150 NB OF PN25 RATING.	7190	MR		
223	RFW009870082	FRP 45 DEGREE ELBOW OF SIZE 100 NB OF P N25 RATING.	4	NO		
224	RFW009870083	FRP 90 DEGREE ELBOW OF SIZE 100 NB OF P N25 RATING.	14	NO		
225	RFW009870084	FRP 90 DEGREE ELBOW OF SIZE 125 NB OF P N25 RATING.	164	NO		
226	RFW009870085	FRP 90 DEGREE ELBOW OF SIZE 150 NB OF P N25 RATING.	157	NO		
227	RFW009870086	FRP EQUAL TEE OF SIZE 100 NB OF PN25 RATING.	7	NO		
228	RFW009870087	FRP EQUAL TEE OF SIZE 125 NB OF PN25 RATING.	4	NO		
229	RFW009870088	FRP EQUAL TEE OF SIZE 150 NB OF PN25 RATING.	4	NO		
230	RFW009870089	FRP UNEQUAL TEE OF SIZE 150X125 NB OF P N25 RATING.	4	NO		
231	RFW009870090	FRP ECCENTRIC REDUCER OF SIZE 150X100 NB OF PN25 RATING.	4	NO		
232	RFW009870091	FRP FLANGE OF SIZE 100 NB OF PN25 RATING .	44	NO		
233	RFW009870092	FRP FLANGE OF SIZE 125 NB OF PN25 RATING .	132	NO		
234	RFW009870093	FRP FLANGE OF SIZE 150 NB OF PN25 RATING .	82	NO		
235	RFW009870094	FRP STUB FLANGE OF SIZE 50 NB OF PN25 RATING.	85	NO		
236	RFW009880001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC:ROS1057 AT BAR H-I PROJECT SITE.	1	LT		

Enq sno	Material code	Item Description	Qty	Unit	Unit rate in INR	Total rate in INR
237	RFW009920001	FRP PIPE OF SIZE 25NB OF PN10 RATING.	10	MR		
238	RFW009920002	FRP PIPE OF SIZE 40NB OF PN10 RATING.	40	MR		
239	RFW009920003	FRP PIPE OF SIZE 50NB OF PN10 RATING.	310	MR		
240	RFW009920004	FRP PIPE OF SIZE 80NB OF PN10 RATING.	160	MR		
241	RFW009920005	FRP PIPE OF SIZE 100NB OF PN10 RATING.	770	MR		
242	RFW009920006	FRP PIPE OF SIZE 150NB OF PN10 RATING.	1340	MR		
243	RFW009920007	FRP PIPE OF SIZE 200NB OF PN10 RATING.	1150	MR		
244	RFW009920008	FRP PIPE OF SIZE 250NB OF PN10 RATING.	2270	MR		
245	RFW009920009	FRP 45 DEGREE ELBOW OF SIZE 40NB OF PN10 RATING.	14	NO		
246	RFW009920010	FRP 45 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	14	NO		
247	RFW009920011	FRP 45 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	60	NO		
248	RFW009920012	FRP 45 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	4	NO		
249	RFW009920013	FRP 45 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	14	NO		
250	RFW009920014	FRP 60 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	7	NO		
251	RFW009920015	FRP 60 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	4	NO		
252	RFW009920016	FRP 60 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	24	NO		
253	RFW009920017	FRP 75 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	36	NO		
254	RFW009920018	FRP 75 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	36	NO		
255	RFW009920019	FRP 84 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING.	14	NO		
256	RFW009920020	FRP 84 DEGREE ELBOW OF SIZE 80NB OF PN10 RATING.	36	NO		
257	RFW009920021	FRP 84 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	34	NO		
258	RFW009920022	FRP 84 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	76	NO		
259	RFW009920023	FRP 84 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	23	NO		
260	RFW009920024	FRP 84 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	4	NO		
261	RFW009920025	FRP 90 DEGREE ELBOW OF SIZE 25NB OF PN10 RATING.	7	NO		
262	RFW009920026	FRP 90 DEGREE ELBOW OF SIZE 40NB OF PN10 RATING.	36	NO		
263	RFW009920027	FRP 90 DEGREE ELBOW OF SIZE 50NB OF PN10 RATING.	158	NO		
264	RFW009920028	FRP 90 DEGREE ELBOW OF SIZE 80NB OF PN10 RATING.	53	NO		
265	RFW009920029	FRP 90 DEGREE ELBOW OF SIZE 100NB OF PN10 RATING.	443	NO		
266	RFW009920030	FRP 90 DEGREE ELBOW OF SIZE 150NB OF PN10 RATING.	120	NO		
267	RFW009920031	FRP 90 DEGREE ELBOW OF SIZE 200NB OF PN10 RATING.	134	NO		
268	RFW009920032	FRP 90 DEGREE ELBOW OF SIZE 250NB OF PN10 RATING.	154	NO		

269	RFW009920033	FRP STUB FLANGE OF SIZE 25NB OF PN10 RATING.	22	NO		
270	RFW009920034	FRP STUB FLANGE OF SIZE 40NB OF PN10 RATING.	58	NO		
271	RFW009920035	FRP STUB FLANGE OF SIZE 50NB OF PN10 RATING.	329	NO		
272	RFW009920036	FRP FLANGE OF SIZE 80NB OF PN 10 RATING.	61	NO		
273	RFW009920037	FRP FLANGE OF SIZE 100NB OF PN 10 RATING .	546	NO		
274	RFW009920038	FRP FLANGE OF SIZE 125NB OF PN 10 RATING .	36	NO		
275	RFW009920039	FRP FLANGE OF SIZE 150NB OF PN 10 RATING .	187	NO		
276	RFW009920040	FRP FLANGE OF SIZE 200NB OF PN 10 RATING .	157	NO		
277	RFW009920041	FRP FLANGE OF SIZE 250NB OF PN 10 RATING .	119	NO		
278	RFW009920042	FRP BLIND FLANGE OF SIZE 150NB OF PN 10 RATING.	4	NO		
279	RFW009920043	FRP 90 DEGREE EQUAL TEE OF SIZE 50NB OF PN 10 RATING.	22	NO		
280	RFW009920044	FRP 90 DEGREE EQUAL TEE OF SIZE 100NB OF PN 10 RATING.	2	NO		
281	RFW009920045	FRP 90 DEGREE EQUAL TEE OF SIZE 250NB OF PN 10 RATING.	24	NO		
282	RFW009920046	FRP 84 DEGREE EQUAL TEE OF SIZE 50NB OF PN 10 RATING.	1	NO		
283	RFW009920047	FRP 90 DEGREE UNEQUAL TEE OF SIZE 50X25N B OF PN 10 RATING.	4	NO		
284	RFW009920048	FRP 90 DEGREE UNEQUAL TEE OF SIZE 100X50 NB OF PN 10 RATING.	13	NO		
285	RFW009920049	FRP 90 DEGREE UNEQUAL TEE OF SIZE 200X15 0NB OF PN 10 RATING.	4	NO		
286	RFW009920050	FRP 90 DEGREE UNEQUAL TEE OF SIZE 250X20 0NB OF PN 10 RATING.	7	NO		
287	RFW009920051	FRP 84 DEGREE UNEQUAL TEE OF SIZE 250X20 0NB OF PN 10 RATING.	1	NO		
288	RFW009920052	FRP CONCENTRIC REDUCER OF SIZE 50X25 OF PN10 RATING.	14	NO		
289	RFW009920053	FRP CONCENTRIC REDUCER OF SIZE 80X50 OF PN10 RATING.	4	NO		
290	RFW009920054	FRP CONCENTRIC REDUCER OF SIZE 100X50 OF PN10 RATING.	4	NO		
291	RFW009920055	FRP CONCENTRIC REDUCER OF SIZE 150X80 OF PN10 RATING.	4	NO		
292	RFW009920056	FRP CONCENTRIC REDUCER OF SIZE 150X100 O F PN10 RATING.	4	NO		
293	RFW009920057	FRP CONCENTRIC REDUCER OF SIZE 150X125 O F PN10 RATING.	36	NO		
294	RFW009920058	FRP CONCENTRIC REDUCER OF SIZE 200X100 O F PN10 RATING.	4	NO		
295	RFW009920059	FRP CONCENTRIC REDUCER OF SIZE 250X150 O F PN10 RATING.	4	NO		
296	RFW009920060	FRP CONCENTRIC REDUCER OF SIZE 250X200 O F PN10 RATING.	17	NO		
297	RFW009920061	FRP FLANGE CONCENTRIC REDUCER OF SIZE 10 0X50 NB OF PN 10 RATING..	7	NO		
298	RFW009920062	FRP ECCENTRIC REDUCER OF SIZE 100X50 OF PN10 RATING.	4	NO		
299	RFW009920063	FRP ECCENTRIC REDUCER OF SIZE 200X150 OF PN10 RATING.	4	NO		
300	RFW009920064	FRP ECCENTRIC REDUCER OF SIZE 250X200 OF PN10 RATING.	42	NO		

301	RFW009920065	FRP PIPE OF SIZE 50NB OF PN16 RATING.	50	MR		
302	RFW009920066	FRP PIPE OF SIZE 100NB OF PN16 RATING.	1170	MR		
303	RFW009920067	FRP PIPE OF SIZE 125NB OF PN16 RATING.	1050	MR		
304	RFW009920068	FRP PIPE OF SIZE 150NB OF PN16 RATING.	880	MR		
305	RFW009920069	FRP PIPE OF SIZE 200NB OF PN16 RATING.	10	MR		
306	RFW009920070	FRP 45 DEGREE ELBOW OF SIZE 100NB OF PN1 6 RATING.	13	NO		
307	RFW009920071	FRP 45 DEGREE ELBOW OF SIZE 125NB OF PN1 6 RATING.	2	NO		
308	RFW009920072	FRP 90 DEGREE ELBOW OF SIZE 50NB OF PN16 RATING.	14	NO		
309	RFW009920073	FRP 90 DEGREE ELBOW OF SIZE 100NB OF PN1 6 RATING.	58	NO		
310	RFW009920074	FRP 90 DEGREE ELBOW OF SIZE 125NB OF PN1 6 RATING.	89	NO		
311	RFW009920075	FRP 90 DEGREE ELBOW OF SIZE 150NB OF PN1 6 RATING.	85	NO		
312	RFW009920076	FRP 90 DEGREE ELBOW OF SIZE 200NB OF PN1 6 RATING.	6	NO		
313	RFW009920077	FRP FLANGE OF SIZE 50NB OF PN 16 RATING.	72	NO		
314	RFW009920078	FRP FLANGE OF SIZE 100NB OF PN 16 RATING .	49	NO		
315	RFW009920079	FRP FLANGE OF SIZE 125NB OF PN 16 RATING .	73	NO		
316	RFW009920080	FRP FLANGE OF SIZE 150NB OF PN 16 RATING .	29	NO		
317	RFW009920081	FRP FLANGE OF SIZE 200NB OF PN 16 RATING .	5	NO		
318	RFW009920082	FRP EQUAL TEE OF SIZE 125NB OF PN16 RATI NG	4	NO		
319	RFW009920083	FRP EQUAL TEE OF SIZE 150NB OF PN16 RATI NG	7	NO		
320	RFW009920084	FRP EQUAL TEE OF SIZE 200NB OF PN16 RATI NG	2	NO		
321	RFW009920085	FRP UNEQUAL TEE OF SIZE 200X100NB OF PN1 6 RATING	1	NO		
322	RFW009920086	FRP CONCENTRIC REDUCER OF SIZE 150X100 O F PN16 RATING.	4	NO		
323	RFW009920087	FRP CONCENTRIC REDUCER OF SIZE 200X100 O F PN16 RATING.	1	NO		
324	RFW009920088	FRP CONCENTRIC REDUCER OF SIZE 200X125 O F PN16 RATING.	1	NO		
325	RFW009920089	FRP ECCENTRIC REDUCER OF SIZE 150X125 OF PN16 RATING.	4	NO		
326	RFW009930001	ERECTION & COMMISSIONING OF FRP PIPES & FITTINGS AS PER TECH SPEC:ROS1057 AT NOR TH KARANPURA PROJECT SITE.	1	LT		

	BHEL: BAP: RANIPET Pre-Qualification requirement (PQR) for FRP Pipes & Fittings	Ref: RFW00969 & RFW00971
		Dt: 14.09.2020
		Rev : 00

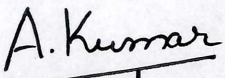
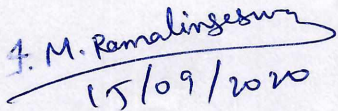
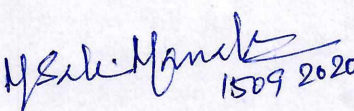
Monday

The Qualification requirements for FRP Pipes & Fittings are detailed below and Bidders should meet the same. Offers of bidders who do not meet qualification requirement will not be considered for evaluation.

1. Bidder should have designed, manufactured, supplied, erected & successfully hydro-tested the FRP Pipes & Fittings at site either directly or through authorized agency at least in one process plant for power plant / industrial application.
2. The reference piping systems shall be a combination of pipes, fittings (Flanges, Elbows, Equal Tee, Unequal Tee etc.) of size not less than DN100 of pressure rating not less than the PN 10.
3. The installed pipe & fittings should have been in successful operation for not less than one year as on date of techno commercial bid opening.
4. Bidder shall furnish necessary documentary evidence in original / notarized (legible) copy as a proof of meeting the qualifying criteria for the review by BHEL. Acceptance of documentary evidence rests with BHEL.

General Conditions:

1. Bidder shall produce the long term type test report along with the bid.
2. Bidder to submit duly filled & signed copy of the enclosed format (as per annexure).
3. Bidders who defaulted, in any of the previous tenders floated by BHEL are not permitted to respond. Such offers, if found later, will not be considered for evaluation.
4. After receipt of offers, during scrutiny, if any vendor found to have been banned by BHEL, then their offer will be summarily rejected at any stage.
5. Bidder to make provision in case BHEL decides to visit the reference plant furnished by the bidder for meeting the PQR requirements.

Prepared by  15/09/2020 Abhinav Kumar Dy. Mgr./Water Systems	Checked by  15/09/2020 IMRL Rao Sr.Mgr./water Systems	Approved by  15/09/2020 M Salaimanalan DGM/Water Systems
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Reference project-1

Reference project-2

A. Contact details: -

- a. Project name :
 a. Contact person :
 b. Designation :
 c. Mobile :
 d. Land line :
 e. Email id :
 f. Address :

B. Reference Plant Details:-

Sl. No.	Parameters	Reference Project #1	Reference Project #2
01	Certificate Reference & Date		
02	Details Pipes & Fittings		
a)	- Pipe (Minimum & Maximum Size)		
b)	- Elbow (Minimum & Maximum Size)		
c)	- TEE (Minimum & Maximum Size)		
d)	- Flange (Minimum & Maximum Size)		
e)	- Any other Fittings		
03	Applicable Design Standards		
04	Design Pressure Rating (min.)		
05	Resin Utilized		
a)	Vinyl Ester		
b)	Isothalic		
c)	Combination of Vinyl Ester + Isothalic		
d)	Inner Protection Layer		
e)	Outer UV Protection Layer		
06	Layer content:		
a)	Interior layer surface ratio (Glass: Resin)		

Bidder's signature with stamp

Sl. No.	Parameters	Reference Project #1	Reference Project #2
b)	Structural layer ratio (Mat: Resin)		
c)	Exterior surface ratio (Mat: Resin)		
07	Testing Pressure		
08	Testing Standard		
09	End use		
10	Reference System P&ID , Drawings		
11	Applicable site photographs		
12	Date of supply		
13	Date of commissioning		

Bidder's signature with stamp

	BHEL: BAP: RANIPET	Ref: RFW00985 & RFW00986
		Dt: 17.09.2020
		Rev : 00
Pre-Qualification requirement (PQR) for FRP Pipes & Fittings		

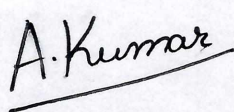
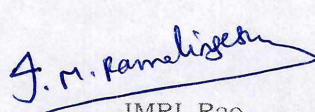
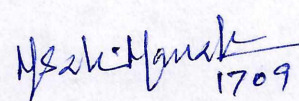
Barh-II

The Qualification requirements for FRP Pipes & Fittings are detailed below and Bidders should meet the same. Offers of bidders who do not meet qualification requirement will not be considered for evaluation.

1. Bidder should have designed, manufactured, supplied, erected & successfully hydro-tested the FRP Pipes & Fittings at site either directly or through authorized agency at least in one process plant for power plant / industrial application.
2. The reference piping systems shall be a combination of pipes, fittings (Flanges, Elbows, Equal Tee, Unequal Tee etc.) of size not less than DN100 of pressure rating not less than the PN 10.
3. The installed pipe & fittings should have been in successful operation for not less than one year as on date of techno commercial bid opening.
4. Bidder shall furnish necessary documentary evidence in original / notarized (legible) copy as a proof of meeting the qualifying criteria for the review by BHEL. Acceptance of documentary evidence rests with BHEL

General Conditions:

1. Bidder shall produce the long term type test report along with the bid.
2. Bidder to submit duly filled & signed copy of the enclosed format (as per annexure).
3. Bidders who defaulted, in any of the previous tenders floated by BHEL are not permitted to respond. Such offers, if found later, will not be considered for evaluation.
4. After receipt of offers, during scrutiny, if any vendor found to have been banned by BHEL, then their offer will be summarily rejected at any stage.
5. Bidder to make provision in case BHEL decides to visit the reference plant furnished by the bidder for meeting the PQR requirements.

Prepared by	Checked by	Approved by
 Abhinav Kumar Dy. Mgr./Water Systems	 IMRL Rao Sr.Mgr./water Systems	 M Salaimanalan DGM/Water Systems

	<i>Reference project-1</i>	<i>Reference project-2</i>
A. Contact details: -		
a. Project name :		
a. Contact person :		
b. Designation :		
c. Mobile :		
d. Land line :		
e. Email id :		
f. Address :		

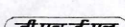
B. Reference Plant Details:-

Sl. No.	Parameters	Reference Project #1	Reference Project #2
01	Certificate Reference & Date		
02	Details Pipes & Fittings		
a)	- Pipe (Minimum & Maximum Size)		
b)	- Elbow (Minimum & Maximum Size)		
c)	- TEE (Minimum & Maximum Size)		
d)	- Flange (Minimum & Maximum Size)		
e)	- Any other Fittings		
03	Applicable Design Standards		
04	Design Pressure Rating (min.)		
05	Resin Utilized		
a)	Vinyl Ester		
b)	Isophthalic		
c)	Combination of Vinyl Ester + Isophthalic		
d)	Inner Protection Layer		
e)	Outer UV Protection Layer		
06	Layer content:		
a)	Interior layer surface ratio (Glass: Resin)		

Bidder's signature with stamp

Sl. No.	Parameters		Reference Project #1	Reference Project #2
b)	Structural layer ratio (Mat: Resin)			
c)	Exterior surface ratio (Mat: Resin)			
07	Testing Pressure			
08	Testing Standard			
09	End use			
10	Reference System P&ID , Drawings			
11	Applicable site photographs			
12	Date of supply			
13	Date of commissioning			

Bidder's signature with stamp

	BHEL: BAP: RANIPET	Ref:	RFW00987 & RFW00988
		Dt:	17.09.2020
		Rev :	00
Pre-Qualification requirement (PQR) for FRP Pipes & Fittings			

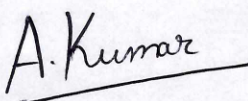
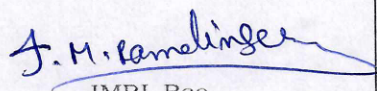
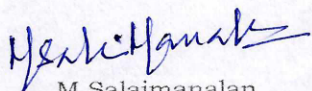
Bok-1

The Qualification requirements for FRP Pipes & Fittings are detailed below and Bidders should meet the same. Offers of bidders who do not meet qualification requirement will not be considered for evaluation.

1. Bidder should have designed, manufactured, supplied, erected & successfully hydro-tested the FRP Pipes & Fittings at site either directly or through authorized agency at least in one process plant for power plant / industrial application.
2. The reference piping systems shall be a combination of pipes, fittings (Flanges, Elbows, Equal Tee, Unequal Tee etc.) of size not less than DN100 of pressure rating not less than the PN 10.
3. The installed pipe & fittings should have been in successful operation for not less than one year as on date of techno commercial bid opening.
4. Bidder shall furnish necessary documentary evidence in original / notarized (legible) copy as a proof of meeting the qualifying criteria for the review by BHEL. Acceptance of documentary evidence rests with BHEL.

General Conditions:

1. Bidder shall produce the long term type test report along with the bid.
2. Bidder to submit duly filled & signed copy of the enclosed format (as per annexure).
3. Bidders who defaulted, in any of the previous tenders floated by BHEL are not permitted to respond. Such offers, if found later, will not be considered for evaluation.
4. After receipt of offers, during scrutiny, if any vendor found to have been banned by BHEL, then their offer will be summarily rejected at any stage.
5. Bidder to make provision in case BHEL decides to visit the reference plant furnished by the bidder for meeting the PQR requirements.

Prepared by	Checked by	Approved by
		
Abhinav Kumar Dy. Mgr./Water Systems	IMRL Rao Sr.Mgr./water Systems	M Salaimanalan DGM/Water Systems

	<i>Reference project-1</i>	<i>Reference project-2</i>
A. Contact details: -		
a. Project name :		
a. Contact person :		
b. Designation :		
c. Mobile :		
d. Land line :		
e. Email id :		
f. Address :		

B. Reference Plant Details:-

Sl. No.	Parameters	Reference Project #1	Reference Project #2
01	Certificate Reference & Date		
02	Details Pipes & Fittings		
a)	- Pipe (Minimum & Maximum Size)		
b)	- Elbow (Minimum & Maximum Size)		
c)	- TEE (Minimum & Maximum Size)		
d)	- Flange (Minimum & Maximum Size)		
e)	- Any other Fittings		
03	Applicable Design Standards		
04	Design Pressure Rating (min.)		
05	Resin Utilized		
a)	Vinyl Ester		
b)	Isophthalic		
c)	Combination of Vinyl Ester + Isophthalic		
d)	Inner Protection Layer		
e)	Outer UV Protection Layer		
06	Layer content:		
a)	Interior layer surface ratio (Glass: Resin)		

Bidder's signature with stamp

Annexure to

Form No. 1 of 2

Sl. No.	Parameters	Reference Project #1	Reference Project #2
b)	Structural layer ratio (Mat: Resin)		
c)	Exterior surface ratio (Mat: Resin)		
07	Testing Pressure		
08	Testing Standard		
09	End use		
10	Reference System P&ID , Drawings		
11	Applicable site photographs		
12	Date of supply		
13	Date of commissioning		

Bidder's signature with stamp

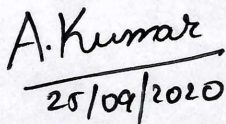
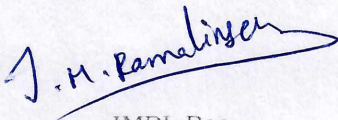
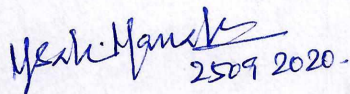
	BHEL: BAP: RANIPET Pre-Qualification requirement (PQR) for FRP Pipes & Fittings	Ref: RFW00992 & RFW00993	NKP
		Dt: 25.09.2020	
		Rev : 00	

The Qualification requirements for FRP Pipes & Fittings are detailed below and Bidders should meet the same. Offers of bidders who do not meet qualification requirement will not be considered for evaluation.

1. Bidder should have designed, manufactured, supplied, erected & successfully hydro-tested the FRP Pipes & Fittings at site either directly or through authorized agency at least in one process plant for power plant / industrial application.
2. The reference piping systems shall be a combination of pipes, fittings (Flanges, Elbows, Equal Tee, Unequal Tee etc.) of size not less than DN100 of pressure rating not less than the PN 10.
3. The installed pipe & fittings should have been in successful operation for not less than one year as on date of techno commercial bid opening.
4. Bidder shall furnish necessary documentary evidence in original / notarized (legible) copy as a proof of meeting the qualifying criteria for the review by BHEL. Acceptance of documentary evidence rests with BHEL

General Conditions:

1. Bidder shall produce the long term type test report along with the bid.
2. Bidder to submit duly filled & signed copy of the enclosed format (as per annexure).
3. Bidders who defaulted, in any of the previous tenders floated by BHEL are not permitted to respond. Such offers, if found later, will not be considered for evaluation.
4. After receipt of offers, during scrutiny, if any vendor found to have been banned by BHEL, then their offer will be summarily rejected at any stage.
5. Bidder to make provision in case BHEL decides to visit the reference plant furnished by the bidder for meeting the PQR requirements.

Prepared by	Checked by	Approved by
 25/09/2020 Abhinav Kumar Dy. Mgr./Water Systems	 IMRL Rao Sr.Mgr./water Systems	 2509 2020. M Salaimanalan DGM/Water Systems

	<i>Reference project-1</i>	<i>Reference project-2</i>
A. Contact details: -		
a. Project name :		
a. Contact person :		
b. Designation :		
c. Mobile :		
d. Land line :		
e. Email id :		
f. Address :		

B. Reference Plant Details:-

Sl. No.	Parameters	Reference Project #1	Reference Project #2
01	Certificate Reference & Date		
02	Details Pipes & Fittings		
a)	- Pipe (Minimum & Maximum Size)		
b)	- Elbow (Minimum & Maximum Size)		
c)	- TEE (Minimum & Maximum Size)		
d)	- Flange (Minimum & Maximum Size)		
e)	- Any other Fittings		
03	Applicable Design Standards		
04	Design Pressure Rating (min.)		
05	Resin Utilized		
a)	Vinyl Ester		
b)	Isophthalic		
c)	Combination of Vinyl Ester + Isophthalic		
d)	Inner Protection Layer		
e)	Outer UV Protection Layer		
06	Layer content:		
a)	Interior layer surface ratio (Glass: Resin)		

Bidder's signature with stamp

Sl. No.	Parameters	Reference Project #1	Reference Project #2
b)	Structural layer ratio (Mat: Resin)		
c)	Exterior surface ratio (Mat: Resin)		
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08	Testing Standard		
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12	Date of supply		
13	Date of commissioning		

Bidder's signature with stamp

	TECHNICAL SPECIFICATION FOR FRP PIPING SYSTEM (FGD SLURRY)	SPEC.NO: ROS: 1057
		Rev. No: 00

BHARAT HEAVY ELECTRICALS LIMITED,
RANIPET- 632 406.

**TECHNICAL SPECIFICATION
FOR
FRP PIPING SYSTEM IN FGD SLURRY APPLICATIONS**

00	04.09.20	 SV	 GR	 MRK 15/9	Fresh issue
Rev.No	Date	Prepared	Checked	Approved	Remarks

	TECHNICAL SPECIFICATION FOR FRP PIPING SYSTEM (FGD SLURRY)	SPEC.NO: ROS: 1057
		Rev. No: 00

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1. GENERAL

1.1. Scope

This specification is intended to cover the requirements of Standard Abrasion Resistant fibre Reinforced Plastic (FRP) pipes and fittings especially formulated for applications in Flue Gas Desulphurization (FGD) limestone and gypsum slurry service and other abrasive applications. The scope of the vendor shall include but not limited to: design, manufacture / fabrication, supply, inspection & testing, transportation, handling, lowering, laying & joining, pipe component assembly, hydro-testing, performance guarantee of FRP piping system.

1.2. General Information

Application	: Flue Gas Desulphurization plant (wet)
Medium handled	: Corrosive, abrasive slurry (gypsum/limestone)
Surrounding	: Hot, dusty, humid & corrosive atmosphere
Installation	: Outdoor (open to sky)
Ambient Temp	: 55 °C Maximum & 5 °C Minimum
Operation	: Continuous/Intermittent

1.3. Applicable Codes & Standards

The design, manufacture, inspection and testing of FRP piping shall comply with the latest ASTM D-3517 (Standard Specification for Fiberglass (Glass Fibre Reinforced Thermosetting Resin), in the case of pressure pipes) or AWWA C 950 (Standard for fibre glass pressure pipe) & AWWA M 45 (Fiberglass Pipe design) unless otherwise specified in this Technical Specification. The various codes to be used in the design, manufacture and testing of FRP pipes are as follows:

Code No.	Code Title
AWWA C950	Standard for fibre glass pressure pipe
AWWA M 45	Fiberglass Pipe design
ASTM C 33	Standard specification for Concrete aggregates
ASTM D 638	Standard Test Method for Tensile Properties of Plastics
ASTM D 695	Standard test method for compressive properties of rigid plastics.
ASTM D 1599	Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings
ASTM D 2105	Standard Test Method for Longitudinal Tensile Properties of Fiberglass (Glass-Fibre-Reinforced Thermosetting-Resin) Pipe and Tube
ASTM D 2290	Standard Test Method for Apparent Hoop Tensile Strength of Plastic or Reinforced Plastic Pipe by Split Disk Method
ASTM D 2412	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
ASTM D 2563	Standard practice clarifying visual defects in glass reinforced

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	plastic laminated parts
ASTM D 2583	Standard Test Method for Indentation Hardness of Rigid Plastics by means of a Barcol Impressor
ASTM D 2992	Standard practice for obtaining hydrostatic or pressure design basis for Fiberglass Pipe and Fittings
ASTM D 2996	Standard specification for Filament-Wound Fiberglass (Glass-Fibre-Reinforced-Thermosetting-Resin) Pipe
ASTM D 3262	Standard Specification for Fiberglass (Glass-Fibre Reinforced Thermosetting Resin) Sewer Pipe, in the case of gravity sewer pipes.
ASTM D 3517	Standard Specification for Fiberglass (Glass Fibre Reinforced Thermosetting Resin) Pressure Pipe
ASTM D 3567	Standard practice for determining dimensions of Fiberglass (Glass Fibre Reinforced Thermosetting Resin) Pipe and Fittings
ASTM D 3681	Standard Test Method for Chemical Resistance of Fiberglass (Glass-Fibre-Reinforced Thermosetting -Resin) Pipe in a Deflected Condition
ASTM D 3754	Standard Specification for Fiberglass (Glass Fibre Reinforced Thermosetting Resin) Sewer and Industrial Pressure Pipe.
ASTM D 3839	Standard guide for underground installation of Fiberglass Pipes.
ASTM D 4161	Standard Specification for Fiberglass (Glass Fibre Reinforced Thermosetting Resin) Pipe Joints Using Flexible Elastomeric Seals
ASTM D 5365	Standard Test Method for Long-Term Ring-Bending Strain of Fiberglass (Glass-Fibre-Reinforced Thermosetting-Resin) Pipe
ASTM D 5421	Standard specification for contact moulded "Fibre glass" flanges.
ASTM D 6041	Standard Specification for Contact-Molded "Fiberglass" (Glass-Fiber- Reinforced Thermosetting Resin) Corrosion Resistant Pipe and Fittings
ASTM F 477	Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
BS 5480	British Standard Specification for Glass reinforced plastics (GRP) pipes, joints and fittings for use for water supply or sewerage
BS 8010-2.5	Code of practice for pipelines – pipelines on land: design, construction and installation; glass reinforced thermosetting plastics
ISO 1172	Textile-glass-reinforced plastics - Prepregs, moulding compounds and laminates - Determination of the textile-glass and mineral-filler content - Calcination methods
ISO 7370	Glass fiber Reinforced Thermosetting Plastic Pipes and Fitting-Nominal Diameters, Specified diameters and Standard Lengths.
IS 12709	Glass Fibre Reinforced Plastics (GRP) Pipes, Joints And Fittings For Use For Potable Water Supply - Specification

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PART-A:

Design, Manufacture and Supply of FRP Pipes & Fittings

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2. DESIGN REQUIREMENTS

2.1. General

Pipe type	: ID series pipe
Outer surface finish	: Smooth and glassy finish
Inner surface finish	: Hazen-William flow coefficient, C = 150
Pressure rating	: PN10 / PN16 / PN25
Pipe pigment colour	: Will be finalized after ordering (including field joints)

A safety factor of 6:1 shall be applied at the specified Design conditions for temperature and pressure.

2.2. Nominal Diameter

The nominal diameter of the pipe shall be as specified in the data sheet. The inside diameters and tolerances on diameters for the specified nominal diameter shall conform to the requirements stated in AWWA C 950 / ASTM D3517.

2.3. Length

Pipes shall be supplied in nominal lengths of 6m/9m/12m as per requirements. The tolerances on nominal lengths shall be as per relevant AWWA / ASTM standards to which they are supplied.

2.4. Wall Thickness

Vendor shall submit design calculations as per AWWA M 45 & AWWA C 950 to establish the adequacy of pipe size, pressure class and stiffness class selected for the FRP pipes. The minimum wall thickness shall conform to the tolerance limit as given in relevant AWWA / ASTM standards to which FRP pipes are supplied.

The thickness of interior abrasion/corrosion resistant layer and the outer layer shall not be included in the calculation of structural wall thickness.

2.5. Stiffness Class

The pipe shall be stiff enough to meet the design requirement with particular regard to installation method, deflection limits, buckling and vacuum requirements.

2.6. Hoop and Longitudinal tensile strength

FRP piping shall meet the minimum hoop tensile strength and minimum longitudinal tensile strength requirements specified in AWWA C 950 / ASTM D3517 for the pressure class specified.

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3. MATERIAL REQUIREMENTS

The vendor shall use only reputed makes & premium grades of resin, fibre, aggregates, additives, etc. Vendor shall furnish the make of all the above in the technical offer stage itself along with documented performance in this particular application. The resin, reinforcement, pigments, fillers and other constituents when combined as a unit shall produce piping that shall exceed the requirements specified in ASTM D 2310 by at least 10 to 15%. Both pipes & fittings shall have a minimum double veil reinforced vinyl ester resin with Silicon carbide filler (for internal corrosion and abrasion resistant barrier), a filament wound fibreglass reinforced cage and a standard external layer. The fittings shall be filament wound and glass reinforced structural cage with standard 25 years guarantee against UV degradation and Fire.

3.1. Resin

A thermosetting polyester resin to be used and quality parameters shall be as per relevant AWWA / ASTM standards. The resin used for the internal liner of the pipes and fittings shall be of an unsaturated resin that can provide the required corrosion & abrasion resistance. The resin in the structural wall of the pipes and fittings is of the unsaturated Polyester type incorporating styrene as the polymer monomer, but other resins may be used depending on the application. Bidders intending to use other resins may do so with due approval from BHEL depending on the application.

3.2. Glass Fibre

Glass fibre reinforcement shall be of grade 'E' and 'C' as per application and shall conform to relevant ASTM standards.

3.3. Wall composition

Structure of piping shall have corrosion & abrasion resistant layer, reinforced structural layer and outer surface layer. The resins used shall not contain fillers / aggregates except as required for viscosity control, abrasion control (if specified) and fire retardance (if specified).

- a) The inner layer shall be manufactured with a minimum double synthetic veil reinforced premium epoxy vinyl ester resin of internal corrosion barrier with Silicon Carbide filler ($22.5 \pm 2.5\%$ by weight) to increase abrasion resistance. Layer thickness shall be minimum 3.0 mm
- b) Structural layer shall be made by filament winding of angle 54.7° consisting of E-Glass Chopped roving strand Mat of 60% by weight with Isophthalic resin. For applications wherein the Design Structural Layer Thickness calculated is less than 3.0 mm, the Bidder shall consider the Structural Layer thickness as 3.0 mm minimum
- c) The outer layer shall be filament wound fiber glass reinforced cage with UV stabilizer. Layer thickness shall be minimum 0.5 mm. Outer surface of the pipe shall be glassy finish.

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- d) Also, the external surfaces shall be Fire Retardant. Bidder shall provide documentary evidence for compliance of this clause during technical offer and subsequently prove the same by means of Test during inspection witness. Bidder shall also indicate the means that would be adopted to dissipate the static Electricity developed in the system suitably including grounding.

4. MANUFACTURING REQUIREMENTS

4.1. Pipes

The pipe shall be machine made through Helical Filament winding process by winding continuous glass fibre filaments saturated with liquid resin or pre-impregnated with partially cured resin onto the outside of a mandrel in a predetermined pattern under controlled tension as described in ASTM D 2996 to result in a corrosion & abrasion resistant, composite structure to meet the operating conditions.

4.2. Fittings

All fittings are to be manufactured using the same materials as that of pipe by filament wound / contact moulding process. All fittings, such as bend / elbows, ends, tees, flanges and reducers etc. shall be equal to or superior in performance to pipe of the same classifications and shall be smoothly finished internally in line with the pipe.

Only swept design shall be used for bends/elbows. All elbows shall be of long radius (1.5 x dia) configuration unless otherwise specified. Reducers shall have smooth and uniform taper. Maximum angle of taper shall be 25 degrees.

All flanges shall be drilled full flat face and rated for the maximum operating conditions. Flange face shall be perpendicular to the axis of flange. All flanges shall be in conformance with ASME B 16.5 150 class unless otherwise specified.

All fittings shall have sufficient end length of pipe to accommodate over wrapped length of fitting and pipe. Moulded fittings shall be made by hand lay-up, contact moulding, hot or cold press moulding or tape winding with internal liner.

The internal and external surfaces of all pipes & fittings shall be clean and free from defects such as protruding fibres, voids, bubbles, pin holes, cracks, twists, gouges, bends, open joints, blisters, tackiness and foreign matters. Cut laminate surfaces shall be coated with liner resin and have a smooth finish.

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4.3. Inspection & Testing

Testing shall be carried out in presence of the BHEL / BHEL approved representative based on the approved quality plan, drawings and relevant standards, for which minimum 15 days' notice shall be given by the vendor.

BHEL's inspector or representative shall have the option to reject any items of material or workmanship, which fail to meet the quality standards consistent with the specification, the project drawings, and good fabrication practice. Such rejection shall prohibit shipment or installation of rejected items until such time as customer's acceptance is obtained. The vendor shall promptly replace or repair the work without cost to BHEL. All the stage checks shall be offered to BHEL for inspection.

The Long term type tests stipulated below should have been conducted by the manufacturer or its technology provider on FRP pipes at an independent laboratory or duly approved by accredited third party agency. Vendor shall submit these type test reports to BHEL. Further, BHEL reserves the right to waive conducting of any or all type tests (short term/ reconfirmation tests based on the reports/certificates) under this contract.

- a. **Long term hydrostatic strength / Long term hydrostatic pressure:**
Manufacturer or its technology provider should have already carried out the full type testing as described in Procedure-B of ASTM 2992, duly approved by accredited third party agency. Further, the manufacturer shall carry out the requalification test as described in reconfirmation test of ASTM 2992 on the same pressure class & stiffness class as specified for the pipes.
- b. **Pressure Resistance:** Supplier shall perform tests per ASTM D1599. Procedure A is preferred, but Procedure B will be accepted with the consent of the BHEL contingent upon the agreement of the minimum burst pressure. Supplier shall submit test report for approval. Each pipe shall be hydrostatically tested.
- c. **Stiffness Factor/Loading Characteristics:** As per ASTM D2412 with sample criteria per ASTM D2996
- d. **Chemical resistance of pipe in a deflected condition:**
Manufacturer or its technology provider should have already carried out the full type testing as described in Procedure-A or Procedure-B of ASTM 3681, duly approved by accredited third party agency. Further, the manufacturer shall carry out the requalification test as described in reconfirmation test of ASTM 3681 on the same pressure class & stiffness class as specified for the pipes under this package.
- e. **Long term Stiffness – Material creep:**
Manufacturer or his technology provider should have already carried out the full type testing following the guidelines of ISO 10468 and analysed according to ISO 10928, method B. Further, the manufacturer shall carry out the

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reconfirmation test for 1000hrs on the same pressure class & stiffness class as specified for the pipes under this package. The test procedure for this reconfirmation test shall remain same as the Long Term Stiffness test stipulated above. The acceptance criteria for this test shall be as given in Clause 11 of ASTM D 5365 or as per alternative method proposed by manufacturer subject to BHEL approval.

- f. **Long term Ring bending strain test:**
Manufacturer or his technology provider should have already carried out the full type testing using guidelines of ASTM D5365. Further, the manufacturer shall carry out the short term reconfirmation test in accordance with ASTM D5365 on the same pressure class & stiffness class as specified for the pipes under this package.
- g. **Axial tensile strength** (ASTM D 2105/ ASTM D 638 / BS 5480)
- h. **Hoop tensile strength** (ASTM D 2290 / BS 5480 / IS 12709)
- i. **Structural integrity at deflected condition** (ASTM D 2412 / BS 5480 / IS 12709)
- j. **Stiffness & flexural modulus** (ASTM D 2412 / BS 5480 / IS 12709)
- k. **Other tests:** Barcol hardness test, Acetone sensitivity test, Resin Gel time test, abrasion resistance test, silicon carbide content, fire retardancy
- l. **Visual inspection:** 100%. The finished pipe shall be free from visual defects such as foreign inclusions, dry spots, air bubbles, pinholes, pimples and delamination. A representative lamination sample may be used for determination of acceptable surface finish and visual defects. Piping shall meet the requirements of ASTM D2563, Standard Practice for Classifying Visual Defects in Glass-Reinforced Plastic Laminate Parts. The pipe liner shall be in accordance with ASTM D2563, Level II. The structural layer shall be in accordance with ASTM D2563, Level III.

In addition, product sample test report from a reputed / accredited test lab shall be furnished to BHEL. No material shall be dispatched without obtaining written clearance from BHEL. During inspection, the internal inspection reports shall be submitted to BHEL for info.

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4.4. Marking

The marking on pipe shall include the following:

- The manufacturer's emblem / logo
- Pipe size details: Nominal dia, thickness
- Class of pipe (Pressure rating & Stiffness)
- Spool no (if pre-fabricated)
- Batch no. or date of manufacture
- Colour bands (if applicable)

4.5. Packing & Transportation Requirements

Ends of pipe, fittings and pipe openings shall be sealed to prevent entrance of dirt, water, or other foreign matter. All pipe and pipe fittings shall be suitably protected, coated, covered or boxed to prevent damage or deterioration during transit, handling and storage at site, till the time of erection.

Each packing shall have necessary handling marks. Boxes, bags, or bundles of small parts shall be tagged or labelled with weatherproof tags. Each packing shall contain a packing slip indicating the details of item like item description, quantity, weight etc. Detailed packing list shall be submitted for BHEL approval for giving dispatch clearance by BHEL.

Details of handling & Storage instruction shall also be provided in each packing. Vendor shall submit a write up for safe handling and stacking of pipes during transportation and at site.

All items shall be properly packed with adequate cushioning material to prevent rough handling and transport. Special care shall be given to prevent damage to the piping components.

In case of transport by ship, packing shall be sea worthy so as to ensure safe delivery till site.

The material being delivered at site shall be jointly inspected by BHEL and vendor. Defective or damaged pipe shall be rejected by BHEL and vendor is liable to replace the same with new ones without any commercial implications to BHEL. In case of minor damage, the BHEL may allow repair of the pipe by the Vendor to the satisfaction of the BHEL.

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PART-B:

Erection, Commissioning & Testing of FRP Pipes & Fittings

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5. PIPE INSTALLATION & TESTING

The vendor's scope of work includes but not limited to:

- Collection of vendor supplied FRP pipes & pipe fittings from stores.
- Collection of inline piping components & accessories (BHEL supply) required to be assembled in the pipeline from stores.
- Safe custody & storage of above drawn materials
- Laying, joining of FRP pipes and fittings as per the BHEL issued erection drawings.
- All consumables like resin, fibre, mat etc. for joining of pipes & fittings.
- All tools, tackles, material handling equipment (cranes, hoists, chain pulleys, etc.), consumables, hydro-testing equipment, etc.
- Hydro-testing & leakage rectification of piping system.
- Performance guarantee of the complete piping system
- Handing over of piping system after commissioning and trial operation.
- Reconciliation of drawn material from the store.

All pipe and pipe fittings shall be installed and tested as per the specification, relevant national / international standards & statutory codes.

5.1. Details

- a. Installation (laying and joining) of FRP pipes & fittings shall be carried out as per BHEL erection drawing which will be issued to the successful bidder after ordering. The overview of FRP pipe routing is as follows:
 - Above ground ~10% of total ordered quantity
 - Over pipe racks (Elevation ~ 8.5 m from ground) ~90% of total ordered quantity
- b. Final erection drawings will be furnished by BHEL to the successful vendor at the time of erection. Further any minor modifications / alterations required to suit the system / site conditions are also to be carried-out by the vendor without any additional commercial / time implication to BHEL.
- c. Assembly of piping components & piping accessories (viz. valves, strainers, bellows, fasteners, rubber gaskets, etc. as per drawing) in the pipeline are under the vendor's scope. Alignment, checking & ensuring the operation of these assembled components are also in the vendor's scope.
- d. **Pipe support:** Providing pipe rack, pipe support pedestals, etc. are in BHEL scope. Vendor scope of work includes erection, alignment & assembly of saddles, U-bolts/clamps, fixing of inlay rubber sheet at pipe supports. Piping & support erection shall be carried out in conjunction and jointly at site.
- e. Temporary joints of pipes segments to be made as per erection drawing and shall be offered for stage inspection to BHEL. Final joining of piping shall be done after getting approval from BHEL.

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5.2. Butt & Wrap Joining

The pipe / fittings ends shall be prepared, aligned & laminated with reinforcing fibres and resin. Before work on laminated joint is started, all necessary equipment for completing the work shall be made available. It shall be ensured that the pipes are maintained with joint faces held tightly together without offset. The pipe must be held securely in place to prevent any movement during the butt and wrap procedure.

The glossy resin surface must be removed prior to making the joint. The sanded areas should be slightly greater than the width of the last layer of mat to be applied and equal in distance on both sides of the butt joint.

Vendor shall ensure that the pipe joining surface shall be free of grease, oil, dirt, paper, tape, moisture, solvents, grinding rust residue, etc. The joining surfaces must be protected from subsequent contamination if bonding operation is interrupted. Sanded joints left for extended periods, such as overnight, should be re-sanded. All surfaces must be free from water or other solvents prior to over wrapping.

The resin used shall be of the same type or compatible with the resin used in the manufacturing of the pipes. The curing agent or hardener shall be mixed with resin strictly following the recommendation of the resin manufacturer with respect to weighing, metering, mixing, proportions and temperature.

Each layer must be completely saturated and free from voids or air bubbles.

5.3. Checking The Installed Pipe

Initial diametrical deflection shall not exceed 3% of diameter. Bulges, flat areas, or other abrupt changes of pipe wall curvature are not permitted. Deflection checks shall be done when the first installed pipes have been backfilled to grade and continued periodically throughout the entire project. Laying shall not get too far ahead before verifying the installation quality. Pipes over 3% deflection shall be replaced completely. No attempt to jack or wedge the installed over deflected pipe into a round condition shall be made to avoid damage the pipe.

5.4. Utilities

- a. Service water at one point
- b. Free Power supply at one point
- c. Supply of service air at one point

The requirements of utilities shall be specified by the vendor in their technical offer and the supply shall be limited to the specified quantities.

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6. TESTING

6.1. Flushing

- a. Completed piping systems shall be flushed by vendor with fresh water to clean the pipe of all dirt, debris, and foreign material.
- b. Vendor shall perform all activities like dismantling and reinstalling of all strainers, in line instruments etc. before and after completion of flushing.
- c. Flushing shall be considered as complete only after inspection and approval by BHEL.
- d. Disposal of muck and flushing media shall be arranged by vendor as directed by BHEL, in such a manner that it does not spoil the adjacent installations. Vendor shall obtain BHEL regarding the place and method to be adopted for disposal of debris.
- e. Record of flushing giving following details shall be submitted by vendor to BHEL for approval and records:
 - a. Date of flushing
 - b. Identification of flushed line

6.2. Hydrostatic Testing

- a. Completed piping system as approved by BHEL shall be hydrostatically tested in the presence of customer/consultant. The general requirement for hydrostatic test shall be accordance with design requirement of this specification and standard codes applicable.
- b. Vendor shall prepare hydrostatic test procedure based on specified codes. The hydrostatic test shall commence only after approval of procedure by BHEL.
- c. The pipeline shall be hydro tested in stretches of suitable length at 1.5 times the working pressure (as per BS8010-2.5). Temporary piping, blinds and other facilities as required for such hydro testing shall be arranged by the vendor.
- d. All the joints, which remain untested during sectional hydro tests shall be exposed and inspected for leakage. All the leakage/ defects observed shall be rectified by the vendor and it shall be ensured that there is no visible leakage during continuous eight hours of operation.
- e. After successful testing/ commissioning of entire pipelines, the area around exposed joints shall be restored. The detailed Filed Hydrostatic Testing Procedure based on International standard shall be submitted to BHEL for Approval.
- f. All equipment and instrument used for hydrostatic test shall be approved by

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BHEL before start of test.

- g. Pressure gauge shall be installed on line to measure test pressure. In case of longer lines two or more pressure gauge shall be installed as directed by customer/consultant. One gauge shall be installed at the discharge of the pressuring pump. Pressure gauge used for hydrostatic testing shall be calibrated with dead weight tester in the presence of engineer-in-charge. Range of pressure gauge shall generally be 1.5 times the test pressure.
- h. Orifice plates and restriction orifices shall not be installed until hydrostatic test completed. In such cases, temporary gaskets / spacers shall be used during testing which is in vendor's scope.
- i. All connected equipment, line instruments, relief valves, etc. shall be disconnected from piping system by means of blinds during testing (under vendor's scope). Control valves shall be replaced by spool pieces during testing, which is in the scope of vendor.
- j. High point vent and low point drain required for testing in addition to those marked in the drawings shall be provided by vendor at his own cost. Smooth glassy finish to be maintained for all field joints with the parent colour of the pipes and fittings.
- k. All field joints shall be kept clean for detecting leaks during testing. Test pressure shall be maintained long enough to facilitate complete inspection of system. Minimum duration of test shall be 6 hrs unless otherwise specified. Pressurizing equipment shall be isolated immediately after the test pressure is attained.
- l. The records & signed protocols in duplicate shall be prepared, maintained and submitted by vendor. It shall include the information like date of test, identification of pipe tested / line number, test pressure, test result, etc.

7. GENERAL INSTRUCTIONS FOR E&C, FIELD TESTING

- a. Vendor shall post experienced site engineers with skilled/adequate manpower for execution of piping system.
- b. Adequate lighting facilities such shall be arranged by the vendor at the site of construction etc.
- c. All the lifting tackles including wire ropes, slings, shackles and electrically operated equipment shall be got approved by BHEL before they are actually put on use. Test certificate obtained from the statutory authority should be submitted before their usage.
- d. All valves mounted on FRP pipelines shall be checked and ensured for full

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open & hindrance free operation by the vendor during the erection stage itself.

- e. All equipment so used by vendor shall be of proven quality and safe in operation as approved by BHEL site Engineers from time to time.
- f. At periodic intervals of work, complete and detailed account of the equipment so erected shall be submitted to the BHEL.
- g. Piping support will be supplied by BHEL, however, vendor shall provide all necessary input details for pipe supports, thrust blocks etc. considering thermal loads, expansion, contraction, etc. well in advance to BHEL.
- h. All equipment shall be handled very carefully to prevent any damage and loss. No bare wire ropes, slings etc., shall be used for unloading and / or handling for equipment without the specific written permission of the BHEL site engineer.
- i. The work covered under this scope of work is of highly sophisticated nature requiring best quality / precision workmanship engineering and construction management. Vendor should also ensure successful and timely commercial operation of piping installed. The vendor must have adequate quantity of precision tools, construction aids in possession. Vendor must also have adequate trained qualified and experienced supervisory staff and skilled personnel.
- j. All the necessary certificates and licenses required to carry out the necessary scope of work are to be arranged by the vendor then and there at no extra cost.
- k. The vendor shall comply with all applicable provisions of the safety regulations clean – up programme and other precautionary measures which the BHEL has in effect at the site.
- l. It will be the responsibility of the vendor to ensure the safe lifting of the piping system taking due precautions to avoid any accidents and damage to other piping system and personnel. All piping shall be adequately supported and protected to prevent damage during handling and erection.
- m. Sometimes it may become necessary for the vendor to handle certain un-required components in order to install the required materials. The vendor has to take this contingency also into account. No extra payment is payable for such contingencies.
- n. There can be some variations in the dimensions and level appearing in the arrangement drawings and those actually occurring at site due to minor variations in the location of equipment, structures, cut out etc. This shall be taken care suitably by the vendor.

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- o. At the end of each working day (or) whenever work is interrupted temporarily, the free ends of laid pipes shall be protected against the entry of dirt, water or other foreign matter by means of plugs or end caps by the vendor.
- p. All the tools, tackles, equipment, etc. required for the complete erection, commissioning & testing of piping system shall be arranged by the vendor at his cost. The vendor shall have and own a complete set of special tools and tackles required erection. The vendor shall also supply any special tools and tackles that may be required additionally during testing. All tools & tackles shall be reputed make acceptable to the Customer.
- q. Vendor to ensure proper dissipation / grounding of static electricity generated (if any) on piping during installation.

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PART-C:

Legal & Other Requirements

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8. LEGAL REQUIREMENTS

8.1. Statutory Requirements:

- a. The vendor shall submit a copy of labour license obtained from the licensing Officer (Form VI) u/r 25 read with u/s 12 of contract labour (R&A) Act 1970 & rules and valid WC Insurance copy or ESI Code (if applicable) and PF code no along with the first running bill.
- b. The vendor shall submit monthly running bills along with the copies of monthly wages (of the preceding month) u/r 78 (1) (a) (1) of contract labour rules, copies of monthly return of PF contribution with remittance challans under EPF Act 1952 and copy of renewed WC insurance policy or copies of monthly return of ESI contribution with challans under ESI Act 1948 (if applicable) in respect of the workmen engaged by them.
- c. The vendor should ensure compliance of Sec 21 of Contract Labour (R&A) act 1970 regarding responsibility of payment of wages. In case of “Non-compliance of sec21 or non-payment of wages” to the workmen before the expiry of wage period by the vendor, BHEL reserves the right to pay the workmen under the orders of appropriate authority at the risk and cost of vendor.

8.2. Engagement of Labour

- a. The vendor will be directly and completely responsible for provision of health, safety and sanitary arrangements more particularly described in contract labour (regulations & Abolition) Act, safety precautions etc., as may be required for safe and satisfactory execution of the contract.
- b. The vendor shall be responsible for proper accommodation including adequate medical facilities & transportation to the work spot and back for the personnel employed.

8.3. Compliances with Labour Laws & Rules

Vendor shall comply with all state and central Laws, statutory rules, regulation etc., relating to labour in respect of following acts and also as amended by the Government during the tenure of the contract and having in force or jurisdiction at site.

- a. Payment of wages act, 1936
- b. Minimum wages act, 1948
- c. Workmen's Compensation act, 1923
- d. Industrial dispute act, 1947
- e. Employees Provident fund scheme, 1952
- f. Payment of Bonus act, 1965
- g. Payment of Gratuity act, 1972
- h. Contract Labour (Regulation & Abolition) Act, 1970

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9. OTHER REQUIREMENTS

9.1. Time of Completion

The time schedule as prescribed in the contract is the essence of the contract. The time for completion shall always be reckoned from the date of commencement of work as certified by the BHEL site engineers. The entire work shall be completed by the vendor within the time schedule or within the such extended time as may be allowed under relevant clause.

9.2. Site Cleanliness and Safety Requirements

- Vendor shall strictly follow all safety regulations / conditions as per general conditions of contract booklet enclosed with this tender.
- Non – conformity of safety rules and safety appliances will be viewed seriously.
- Vendor shall ensure that the quality is maintained in all the works connected with this contract at all stages of the requirement of BHEL.
- Vendor shall ensure that all Inspection, Measuring and Testing equipment that are used, are calibrated by the authorized agencies and the valid calibration certificate will be available with them for verification by BHEL.
- Vendor shall arrange for the inspection of the works at various stages as required by BHEL. Immediate corrective action shall be taken by the vendor for the non-conformances if any, observed and pointed out by BHEL.

9.3. Disposal of Scraps / Unused Items:

All the pipe scraps & materials are to be removed from the working area and transported to BHEL scrap area / as per the direction of customer. Un-used balance pipes & materials, BHEL supplied materials are to be handed over at BHEL stores with acknowledgement.

9.4. Additional Requirements

During execution at site, pipe routing is susceptible to change. If any additional requirement of pipes & fittings occurs, the vendor shall supply these additional requirements (up to 10% on total quantum) at the final unit rate agreed. No additional cost is applicable for the installation (laying and joining) for these additional items.

9.5. Other Instructions / General Clauses

- ❖ Vendor shall quote for complete work specified in the document. Vendor shall contact BHEL and obtain additional details/data if any required to submit proper quotation.
- ❖ The BHEL reserves the right to omit any one or more items of work at any time of the contract without assigning any reason what so ever.

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- ❖ Details furnished in this specification are indicative only and cannot be considered as exhaustive. Compliance to this specification shall not release the vendor from following normal industry requirements and good engineering practice.
- ❖ In the event of a conflict between any portion of this specification and/or its attachments / references, BHEL reserves the right to decide and the supplier shall follow the same with no additional cost or time implications.
- ❖ The attachments and references to this specification are an integral part of this specification and are binding with respect to the services and supplies provided by the Supplier
- ❖ All testing requirements as per the relevant and applicable standards are to be ensured by the Vendor.
- ❖ The Intent of this specification is to provide design, manufacture / fabricate, supply, erection, commissioning services for execution of projects according to most modern and proven techniques and codes. It is not the intent to specify completely herein, all aspects of the entire system. Nevertheless, the entire system shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation.
- ❖ The quoted rate shall be deemed to be inclusive of all the tools & tackles, auxiliaries, consumables, testing equipment, contingencies etc. mentioned elsewhere in the specification and intended.
- ❖ All components, features, and design parameters specified herein are minimum requirements. If the vendor's design dictates that these minimum requirements should be exceeded to meet specified performance guarantees and to provide a safe, reliable operation, then vendor shall inform BHEL for any required changes or deviations in those cases.
- ❖ The vendor shall carry out the work in accordance with instructions/ drawings/ specification/ standard practices supplied / approved by BHEL from time to time.
- ❖ Modification / Rectification / repair / replacement of defective components if any shall be under vendor's scope within specified time during execution.
- ❖ Vendor to submit the erection schedule along with stage checks list. For each and every stage, the vendor shall get clearance from the BHEL Engineer / Customer.
- ❖ All the supplied materials will be issued from BHEL stores and it shall be the responsibility of the vendor for identification of the consignment and to take delivery from BHEL stores, transport the same to site & kept in their safe

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- custody for erection.
- ❖ Necessary site co-ordination and clearance for stage check, pre-commissioning checks, fill tests, hydraulic test, etc. shall be carried out by the vendor.
 - ❖ All the piping systems, fittings and accessories supplied under this package shall be designed to operate without replacement and with normal maintenance for a plant service life of about 25 years and shall withstand the operating parameter fluctuations and cyclic fluctuation which can be normally expected during this period.
 - ❖ Vendor to ensure that, all pipes & fittings shall be properly designed to take care of hydraulic shocks and pressure surges which may arise in the system during operation.
 - ❖ All low points in the pipe lines shall be provided with suitable draining arrangement and all high points shall be provided with air vent connections. Vent for use during hydrostatic test shall be plugged after the completion of the test.
 - ❖ All pipe work shall be designed to provide sufficient flexibility and to prevent development of undesirable forces or moment at points of connection to equipment.
 - ❖ Extensive use of templates, gauges, plumb lines shall be made for laying, cutting fitting up of various piping components for fabrication.
 - ❖ Adequate reinforcements / padding shall be provided at all pipe to pipe pull-out branch & stub flange joints.
 - ❖ Prefabrication - if required by BHEL, the manufacturer shall prefabricate the FRP piping into shippable sub-assemblies / segments / spools to minimize the use of field-fabricated connections. However, prior drawing approval shall be obtained from BHEL.
 - ❖ Erection of valves, including alignment, rubber bellows and other acc. required for piping are in the scope of the vendor.
 - ❖ Entire piping including stub flange and valves shall be hydro tested as per the relevant specifications/standards. Pump, pressure gauges, dummy flanges, etc. Required for hydro test shall be in the scope of vendor.
 - ❖ Pipe laying, joining, clamping / supporting (fixing of saddles, U-bolts), fastening of flanged connections with gaskets, carrying out rework / modifications in piping & supports, etc. are in the scope of the vendor.

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PART-D:

Documentation & Annexures

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10. DOCUMENTATION

10.1. General Requirements

The documentation during bid & post-order stage shall meet the following requirements.

- All documents and drawings shall be submitted in English.
- Hard copies of all documents and drawings shall be submitted in duplicate.
- Hard copies of all final documents, drawings, manual etc., shall be submitted in bound folder in duplicate.
- Soft copies of all final documents in MS office in the form of CD-1 set.
- Soft copies of all piping & fitting drawings in AutoCAD format, latest version in CD -1 set.

10.2. Documents to Be Submitted Along with The Bid

- Duly filled up data sheet [Annexure-A](#) in the enclosed format
- Duly filled-up FRP pipes & fittings detail drawing for applicable sizes & pressure ratings
- Pipe, fittings thickness details
- Pipe cross-sectional structural details & fitting dimensional detail drawing.
- Applicable Manufacturing Quality plan
- Pipes & fittings Catalogues.
- Make & details of resin, fibre, mat, aggregates, etc.
- Deviations (if any) shall be specifically mentioned in the prescribed format.

10.3. Documents to Be Submitted After Order

The following documents are to be submitted for approval prior to manufacturing:

- Duly filled up data sheet
- Dimensional drawing for pipes and fittings
- Detailed pipe and fittings thickness calculation
- Cross-sectional drawing for piping structure
- FRP piping joining procedure, repair procedure, hydro-test procedure
- Pipe support span requirements for each size
- Pipe support requirements, drawings & details, thrust block requirements (if any) with drawings & calculations

The following are to be submitted for acceptance of manufactured piping:

- Material test certificate
- Inspection reports for various tests & checks
- Hydraulic test certificates
- Performance guarantee certificate
- Laboratory test certificates
- Packing / shipping philosophy, site storage instructions
- Detailed packing list
- Erection plan

In addition, all records/documents called for elsewhere in the specification under various clauses shall be submitted after order

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11. ANNEXURE-A (Data Sheet)

(i) Flow Medium Data	
Description	Value
Medium handled	Limestone, Gypsum slurry
Sp. Gravity of slurry	1.22
Sp. Gravity of Limestone & Gypsum	2.32
Viscosity of Slurry (cP)	30
Concentration (%)	30% by weight
Chloride conc. (ppm)	~ 15000 to 30000
pH range	~ 4.0 to 8.0
Operating temperature (°C)	27 to 70
Particle size (µm)	100 (max)
Hardness of particle (mho scale)	5 to 7
Flow velocity (m/s)	3.0 (max)
Na ⁺ (ppm)	1,500 to 2,000
Ca ²⁺ (ppm)	1,200 to 1,500
Mg ²⁺ (ppm)	8,000 to 10,000
Mn ²⁺ (ppm)	50 to 100
Cl ⁻ (ppm)	15,000 to 30,000
SO ₄ ²⁻ (ppm)	6,000 to 8,000
F ⁻ (ppm)	20 to 50
NO ₃ ⁺ (ppm)	300 to 400
SiO ₂ (ppm)	4 to 6

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(ii) Piping Design Data		
Description	BHEL Requirement	Vendor Compliance / to specify
Design temperature (°C)	75	
Hazen William's Constant	150	
Pressure class	PN 10 / 16 / 25	
Operating hours / day	24 hours	
Stiffness class (N/m ²)	2500 (min.)	
Interior layer resin	Epoxy Vinyl Ester with silicon carbide (22.5±2.5% by weight)	
Particle size of SiC filler (µm)	Vendor to specify	
Interior layer glass	C-glass fiber	
Interior layer resin thickness (mm)	3.0 (minimum)	
Interior layer surface ratio (Mat: Resin)	10:90	
Structural layer glass	E-glass fiber	
Structural layer ratio (Glass: Resin)	60:40	
Structural layer resin thickness (mm)	3.0 (minimum)	
Structural, Exterior layer resin	Isophthalic resin	
Exterior surface ratio (Mat: Resin)	30:70	
Exterior surface	UV stabilized resin & fire retardant coating	
Exterior surface thickness (mm)	0.5 (minimum)	
Flame retardancy rating of outer liner	Vendor to specify	
Winding method	Filament wound (Helical)	
Winding angle	54.7°	
Elbow / bend design	Swept	
Guaranteed life (hours)	20,000 (min.)	

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(iii) Mechanical Properties				
Description	BHEL Requirement	Vendor to specify		
		PN10	PN16	PN25
Hoop tensile modulus (MPa)	Vendor to specify			
Tensile strength (MPa)	80 (minimum)			
Flexural strength (MPa)	100 (minimum)			
Modulus of flexure (MPa)	5900 (minimum)			
Axial tensile modulus (MPa)	Vendor to specify			
Hoop bending modulus (MPa)	Vendor to specify			
Coefficient of linear expansion (mm/m°C)	Vendor to specify			
Barcol hardness	Vendor to specify			

Bharat Heavy Electricals Limited**Ranipet-632406, India.****Quality Assurance(Mech)**

To,

Shri. M Venkateswarlu, Mgr/Purchase

BAP: QA-Mech: FGD: FRP PIPES: 111

Kind Attn: Shri Narendra Kumar, SEr/Purchase

Dt. 07-10-2020

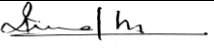
Item Name	Indent No	Indent Dt.	PGMA	Technical Specification
FRP PIPES (FGD Slurry Application)	RFW00992-0993	25.09.2020	FW860	ROS:1057, Rev:00,
	RFW00987-0988	17.09.2020	FW860	Dt:03.09.2020
	RFW00985-0986	17.09.2020	FW860	Drawing No. 2-FW-860-
	RFW00969 & RFW00971	14.09.2020	FW860	01289, Rev:00

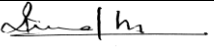
Project: North KaranPura, Mouda, Barh-I & Barh-II

In continuation to clarification on PGMA/Application vide email dated: 06.10.2020 received from FGD/Water Engineering following are Quality recommendations:

1. BHEL Approved source is acceptable.
2. Since FRP pipes (Slurry application) appears under inspection Cat-I item, Inspection and testing shall be done as per approved Quality plan, Quality plan to be approved by Customer/ NTPC after review of BHEL.
3. Painting shall be as per Customer approved Painting schedule.
4. Arrange detailed Quality plan from vendor for review and approval. MQP Shall minimum contains check for raw material, in process and final inspection .Find herewith-attached typical MQP (QP NO.Q-004/00, DT: 05.04.2018). This MQP is indicative only and actual Quantum of Check/Stage may differ based on Project/Customer requirement.
5. Already NTPC approved latest MQP for similar application if available specific to Vendor may be shared for obtaining faster approval from Customer/Customer Consultant.
6. All the Pipes shall be inspected at Manufacturer works as per approved QP/Approved Drawing/Approved datasheet and Specification.
7. Packing of items shall be as per BHEL Engg Approved Packing Drawing/Packing Specifications.
8. BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO. The supplier shall inform BHEL in advance about the readiness of the goods for inspection and testing. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO. Material Test Certificates shall be submitted to BHEL.
9. Annexure 'Q' and BOI's Details shall be part of enquiry File and shall be filled by Supplier with their duly sign and seal.
10. Supplier should be manufacturer not a trader/Agent.
11. **Vendor Quality Plan shall contain following Inspection Notes:**
 - a. Latest version of standards & Specification shall be applied.
 - b. Materials shall be procured in compliance to Functional Technical specification.
 - c. Gauges and measuring instruments with valid calibration only shall be used.
 - d. Inspection / Inspection wavier / approval by BHEL does not absolve Supplier's responsibility for conformity of the specification as per the terms of PO.
 - e. BHEL /BHEL Authorized representatives shall have the right to witness the necessary inspection and testing of goods mentioned in the PO.
 - f. In case of Vendor Drawing & Datasheet, it needs approval by BHEL Engineering.
 - g. This QP shall be read along with relevant PO, BHEL Specification / Approved Drawing/ Datasheet.

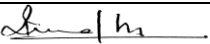
Prepared by.
Rakesh Kr Madhu (Dy.Mgr/QA)Reviewed & Approved by.
K Renjith(Mgr/QA)

 Ranipet		MANUFACTURER'S NAME AND ADDRESS		MANUFACTURING QUALITY PLAN					PROJECT :					
				ITEM:		QP NO.:	Q-004	PACKAGE:						
				FRP PIPES & FITTINGS		REV. NO.:	0	CONTRACT NO.:						
				SUB-SYSTEM:		DATE:	05.04.2018	CONTRACTOR:		BHEL				
						PAGE:		BHEL CUST NO:						
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT#	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N					M	C	N	
1.	2.	3.	4.	5.	6.		7.	8.	9.	D *	** 10.			11.
1 INCOMING MATERIAL INSPECTION														
a)	RESIN(VINYL ESTER)	Color	Minor	Raw material test	Each Batch	Each Batch	IS 6746:1994	IS 6746:1994	Test report	✓	P	V	V	Clear yellow
		Relative density@27°C												1.04±0.01
		Viscosity@25°C												400±20%CPS
		Acid Value												8±4mg KOH/g
		Volatile content												43±3%
		Gel tme@25°C												18±20% Minutes
		Peak exotherm												160±10°C
b)	RESIN (ISOPHTHALIC)	Color	Minor	Raw material test	Each Batch	Each Batch	IS 11551:1996	IS 11551:1996	Test report	✓	P	V	V	Clear yellow
		Relative density@27°C												1.11±0.01
		Viscosity@25°C												400±20%CPS
		Acid Value												15±4mg KOH/g
		Volatile content												38±3%
		Gel tme@25°C												18±20% Minutes
		Peak exotherm												180±10°C
C	CHOPPED STRAND MAT (300GSM/450G SM)													
D)	ROVING (1200 TEX/2400 TEX)	TEX Count	Minor	Raw material test	Each Batch	Each Batch	IS 11320:1997	IS 11320:1997	Test report	✓	P	V	V	1200±8%/2400±8%
		Moisture content												≤0.10
		Loss on ignition												0.55±0.2
		Cross breaking strength of rod												Dry>585
		Conductivity of water extract												Wet>490
E)	WOVEN ROVING(360G SM/ 810GSM)	Avg mass per unit area	Minor	Raw material test	Each Batch	Each Batch	IS 11273:1992	IS 11273:1992	Test report	✓	P	V	V	360±10%/800±10%
		Yarn per 100mm												Warp-61±5/18±5
		Nominal linear density												Weft-55±5/15±5
		Cross breaking strength												Warp-300±10%/2400±10%, Weft-300±10%/2400±10%
 Prepared By  Reviewed & Approved By SIGNATURE LEGENDS: RECORDS IDENTIFIED WITH 'TICK(✓)' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION, TS TECHNICAL SPECIFICATION M-MANUFACTURER/SUB CONTRACTOR:C-CONTRACTOR/BHEL NOMINATED INSPN AGENCY: N-NTPC, IR - INSPECTION REPORT P-PERFORM, W-WITNESS & V: VERIFICATION, R- REVIEW OF REPORT APPROPRIATE 'CHP' SHALL BE IDENTIFIED IN COLUMN 'N' NTPCDOC NO: REVIEWED BY NAME & SIGN OF APPROVING AUTHORITY & SEAL														

 Ranipet		MANUFACTURER'S NAME AND ADDRESS		MANUFACTURING QUALITY PLAN				PROJECT :						
				ITEM: FRP PIPES & FITTINGS		QP NO.:	Q-004	PACKAGE:						
						REV. NO.:	0	CONTRACT NO.:						
				SUB-SYSTEM:		DATE:	05.04.2018	CONTRACTOR:		BHEL				
PAGE:		BHEL CUST NO:												
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT#	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N					M	C	N	
1.	2.	3.	4.	5.	6.		7.	8.	9.	D *	** 10.			11.
		of laminate												Wft-160Min/240Min
2 IN PROCESS INSPECTION FOR GRP PIPE														
A)	SIZE & FINISHING	Free from visual defects	Major	Visual check	100%	100%	AWWA-C 950	AWWA-C 950, Sec 4.2	Inspection report	√	P	V	V	
		Inside diameter, Outside diameter, wall thickness, squariness of pipe ends, Length of pipes	Major	Measure ment	100%	100%	Product drawing	As per drawing			P	V	V	
B)	CURING	Barcol hardness	Major	By barcol hardness tester	100%	100%	As per ASTM D2583	Minimum 30	Inspection report	√	P	V	V	
3 FINAL PROCESS INSPECTION FOR GRP PIPE														
A)	HYDROSTATIC TEST (SOUNDNESS TEST)	Leakage, Weeping, Fracture of the structural wall	Major	Visual check	100%	1% each size	AWWA-C 950 Tble-7	No Leakage, No Pressure drop	Hydro test report	√	P	W	W	
B)	DESTRUCTIVE TEST	Axial Tensile strength test	Major	Mechanical testing	One per size	One per size	AWWA-C 950	AWWA-C 950 TABLE-11-B	Test report	√	P	W	W	
		Hoop Tensile Strength Test						AWWA-C 950 TABLE-10-B						
		Stiffness Test						AWWA C950 Sec.4.2						
C)	FINAL INSPECTION	Free from visual defects	Major	Visual check	100%	1% each size	AWWA-C 950	AWWA C950 Sec.4.2	Final inspection report	√	P	W	W	
		Inside diameter, Outside diameter, well thickness, sqareness of pipe ends, Length of pipes	Major	Measure ment	100%		Product drawing	Product drawing						
4 FABRICATION OF FITTINGS (HAND LAYUP PROCESS)														
A)	FINAL INSPECTION	Checking for visual defects, dimension	Major	Visual & Dimensi	100%	1%	Product drawing	Product drawing	Final inspection	√	P	W	W	
 Prepared By		 Reviewed & Approved By		LEGENDS: RECORDS IDENTIFIED WITH 'TICK(√)' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION, TS TECHNICAL SPECIFICATION M-MANUFACTURER/SUB CONTRACTOR:C-CONTRACTOR/BHEL NOMINATED INSPN AGENCY: N-NTPC, IR - INSPECTION REPORT P-PERFORM, W-WITNESS & V: VERIFICATION, R- REVIEW OF REPORT APPROPRIATE 'CHP' SHALL BE IDENTIFIED IN COLUMN 'N'					NTPCDOC NO:					
SIGNATURE									REVIEWED BY					NAME & SIGN OF APPROVING AUTHORITY & SEAL

 Ranipet		MANUFACTURER'S NAME AND ADDRESS		MANUFACTURING QUALITY PLAN				PROJECT :						
				ITEM: FRP PIPES & FITTINGS		QP NO.:	Q-004	PACKAGE:						
						REV. NO.:	0	CONTRACT NO.:						
				SUB-SYSTEM:		DATE:	05.04.2018	CONTRACTOR:		BHEL				
PAGE:		BHEL CUST NO:												
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT#	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
					M	C/N					M	C	N	
1.	2.	3.	4.	5.	6.		7.	8.	9.	D *	** 10.			11.
5	MARKING	Visual Inspection of marking	Minor	Visual	100%	100%	-	-	report Inspection reports	√	P	-	-	

NOTE: Below 500 meters don't perform hydro test & destructive test for witness

		LEGENDS: RECORDS IDENTIFIED WITH 'TICK(√)' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION, TS TECHNICAL SPECIFICATION M-MANUFACTURER/SUB CONTRACTOR:C-CONTRACTOR/BHEL NOMINATED INSPN AGENCY: N-NTPC, IR - INSPECTION REPORT P-PERFORM, W-WITNESS & V: VERIFICATION, R- REVIEW OF REPORT APPROPRIATE 'CHP' SHALL BE IDENTIFIED IN COLUMN 'N'	NTPCDOC NO:	
				
Prepared By	Reviewed & Approved By		REVIEWED BY	NAME & SIGN OF APPROVING AUTHORITY & SEAL
SIGNATURE				



ANNEXURE –B
GENERAL TERMS & CONDITIONS
(FOR GUIDANCE TO THE SUPPLIERS)

A] Submission of Offer

a) Invitation for bid

Tenders are invited through electronic mode from eligible suppliers in case of open tenders and from suppliers to whom the enquiry is addressed in case of Limited / Single Tender.

The offers shall be posted into the system before the date and time specified in the tender.

The offer shall be sent on single part / two part / three part basis as specified in the main tender document.

Bids shall be submitted through e-Procurement portal, <https://bhel.abcprocure.com> of M/s e-Procurement Technologies, Ahmedabad who is our solution provider.

b) Hardware and Software requirements for participating in e-tender

Requirement for participating in e-Procurement is as under:

- i) A Computer with internet connectivity (Internet Explorer 9.0 (32.bit Browser only) & above)
- ii) Digital Signature Certificate (Class 3- SHA2-2048 BIT- with both Signing and Encryption component separately).
- iii) JAVA (Version 1.8 Update 45).
- iv) Steps for Hardware and software configuration is detailed at <https://bhel.abcprocure.com/EPROC/> under title “Minimum system requirements and Settings Document for BHEL User and Bidders”. **c) Instructions for Registered Suppliers**

For all types of tenders (Single / Limited / Open) an automated email alert regarding issue of the Tender will be sent by the e-procurement portal to all Suppliers registered with BHEL, Ranipet for the item/s for which the tender is issued.

In case of open tenders, Registered suppliers with registered DSC will have to login with their user id/password & DSC and search for the Open Tender. To participate in event and to submit bid, a bidder needs to agree the terms and conditions.

Registered suppliers without DSC will have get their profiles approved by mapping DSC after login.

To know the procedure for obtaining Digital Signature Certificate (DSC), suppliers who are not having the DSC are advised to visit our website www.bhel.com →Tender Notifications →Sample Checklist. **d) Instructions for new suppliers wishing to bid against open tenders**

New, unregistered suppliers wanting to bid against open tender/s will have to first register themselves in <https://bhel.abcprocure.com> as new supplier by clicking the “Register” button.

After entering the Income Tax Permanent Account Number (PAN) details and pressing “Enter”, they have to select the respective BHEL Unit for which they want to participate in the Open Tender and also fill up other relevant Company information as a one-time activity. On successful registration, your profile will be approved by the authorized officer and you can login to portal and can participate in the procurement event.

To participate in a tender, you need to login to the portal. You must be an approved registered user. If you are not a registered user, you can register yourself by clicking upon the “Register” link. You need to have a valid vendor code and password to login to the portal. Enter your Vendor code, password and click on Login button after Login, you need to select your digital signing and encryption certificates certificate. The DSC will be approved by M/s e-Procurement Technologies/ Authorised officer of BHEL.

As required by the tender, the necessary documents have to be filled-in online, in the provided template. Additional documents required are to be scanned and uploaded as .pdf file. Suppliers are advised to take note that the maximum space that is provided for uploading the documents that are to be attached is 300 MB. However the size of an individual document cannot exceed 10 MB. For any clarification on submission of offer on line, attention of the Supplier/s is invited to our document “Bidder Manual for BHEL Bidders” hosted in the home-page of the e-procurement portal. During normal business hours, helpline maintained by the service provider M/s e-Procurement Technologies is available for clarifying any doubts of supplier/s. The helpline numbers are +91-79-40270599/508/560/590/513 and email id is: Bhel.Support@abcProcure.com . Bidder can also refer to “Bidder Manual for BHEL Bidders” hosted in the home-page of the e-procurement portal <https://bhel.abcprocure.com>.

Typical documents that would be required as part of tender submission would be a)

Complete technical Offer with details, catalogues, as applicable.

- b) **Un-priced bid** (i.e. Bid without the Price) as per given format, if any.
- c) **Filled-in BHEL’s Standard Terms & Conditions** as per Annexure enclosed with the Tender Document,
- d) **Deviation summary** submitted in two parts – giving the summary of technical deviations separately and the commercial deviations separately, if any and
- e) **Supporting documents** to substantiate equivalent material specifications / sections, where quoted for.
- f) Where asked for, **Client list** with their full address including detail of contact person with phone no., fax no. & e-mail ID (if any) to whom the same / similar items are supplied in the past two years. The date of supply may also be indicated, against each client.
- g) Suppliers can also upload their credentials by way of submission of Performance certificate/s issued by their customer/s detailing the quantity supplied and specification along with the un-priced PO copies and proof of supply along with the offer.

Technical acceptance of offer by BHEL shall be based on the evaluation of offer and the submitted documents.

- h) **Bidders who are not already registered with BHEL Ranipet** are requested to submit the Supplier Registration Form (SRF) online (<http://supplier.bhel.in/>) for evaluating and registering as an approved vendor. The Supplier Development Cell (SDC) of BHEL, Ranipet would process the SRF for evaluation / registering the Supplier. Don’t send hardcopies of SRF to BHEL-Ranipet, **only** online submission is accepted. This registration process is a separate / parallel activity and do not mix-up with submission offers.

Note

- (i) The materials offered, shall conform to the specification and scope attached in the tender.
- (ii) In case the offered materials are not conforming to the Enquiry material Specification, such offers would not be considered for evaluation and would be rejected.

Where equivalent specifications are offered, considering such offers will be at the sole discretion of BHEL. Wherever alternative standards / specifications are offered by Bidder, the Bidder shall provide sufficient documentary evidence to ensure equivalence to the designated standards / specifications, failing which the offer would be considered as not technically acceptable and hence shall stand rejected.

- (iii) All taxes and duties payable as extra to the quoted price should be specifically stated in offers (as appearing in the online template).

Offer/s from within India shall be submitted along with the applicable HS Number and the applicable Goods & services Tax (GST) for each quoted item, failing which the purchaser will not be liable for payment of such taxes and duties. Our GST No: **33AAACB4146P2ZL**.

- (iv) The un-priced bid shall be used to indicate relevant commercial terms such as scope of freight and insurance, applicability of duties and taxes etc. All Commercial terms are to be indicated clearly in the offer.

- (vi) No changes shall be entertained once the bid is opened unless otherwise specifically agreed to in writing by BHEL.

- (vii) Money values other than for those items appearing in the un-priced bid template shall not be indicated anywhere in the un-priced bid.

- (viii) Time required for inspection (at Supplier's works), should be clearly given in terms of numbers of working days.

- (x) **Offers sent by FAX / E-mail:** would not be entertained.

- (xi) Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection.

- (xii) Registration process for items required by BHEL is always open at <https://supplier.bhel.in>. Prospective suppliers (including MSEs & owned by SCs/STs) may visit this site and apply for registration in the respective Unit.

Price Bid in conformance with the specification and terms as given in the Un-Priced bid document.

Caution on submission of price bids thru EPS:

The suppliers are severely cautioned to note that the price bid document accepts the price in figures only. It does not allow the supplier to write the value by words. Therefore all care shall be exercised by the supplier while filling in the figures. Once the price bid is opened no option is available for the supplier to retract the offer under any grounds. If a supplier, for any reason whatsoever approaches BHEL with a request for change in the price, it would be treated as going back on the offer submitted. In such cases, action would be initiated by BHEL for suspending further business dealings with such suppliers as per policy of BHEL which prevails at that point of time.



Foreign / Overseas suppliers are hereby informed that offers with differential currencies are not permitted for a given tender document.

Note

- (i) The price break-up should be in line with technical specification / scope of the tender. (Cost of material, packing charges, forwarding charges, freight and insurance charges shall be shown appropriately, as applicable).
- (ii) Unless otherwise specified as a part of the tender condition, No Price Variation Clause will be entertained and No advance payment will be made by BHEL.
- (iii) In case, there is a discrepancy in the term quoted in techno-commercial bid and price bid, the term as per the techno-commercial bid (Part I) shall hold good and the commercial term quoted in the Price Bid (Part II) shall not be considered.
- (iv) In their own interest, all Tenderers are advised to double check their prices, applicable duties and taxes.
- (v) The quotation should be valid at least for a period of 90 days from the tender opening date.
- (vi) Indian bidders should submit the prices in Indian Rupees only.
- (vii) Foreign bidders may submit their bid in foreign currency. The currency for quoting shall be selected from the drop-down menu provided.
- (x) Indian Suppliers shall quote on FOR Destination basis only. Destination is BHEL, Ranipet Stores or BHEL Project Site as specified in the tender requirement. Foreign Suppliers shall quote on CFR Chennai Seaport Delivery and Insurance will be in BHEL's scope. No other delivery terms shall be acceptable. Shipment shall be arranged by the Seller on *Liner in / Liner out basis*. As per Government of India guidelines, BHEL Ranipet being a Government of India Undertaking the Bill of Lading shall be made with the Shipper as "Government of India". This shall be specifically confirmed by the Bidder.
- (xi) Where the cargo is containerized, Container washing charges, stuffing charges and / or any other such charges would be to the account of the supplier, where the containers are to be stuffed at the works of the supplier.

B] Opening of Offers

- a) **Tenders can be submitted up to 1400 Hours on tender opening due date. Part I will be opened on the same day at 1430 Hours. Results of the tender opening will be available for viewing for upto 7 days from the date of opening.**
- b) **Requests by Bidders for extension of due date will not be entertained by BHEL.**
- c) Price Bid opening will be done through e-mode / Reverse Auction method (English method) which will be decided after techno-commercial bid evaluation is completed. All tenderers would have to specifically give their acceptance for this in their bid/s.

Note

- (i) Bids including all enclosures and supporting documents like catalogues, pamphlets, etc., shall be provided in ENGLISH language only.

(ii) In exceptional circumstances, at its option, BHEL may consider extending the due date/s for the tender openings for reasons such as (but not limited to) paucity of offers etc. However, sufficient notice would be given by BHEL for such extension.

(iii) Deviations shall be summarized and provided in a “Deviation Statement”, listing the points and the deviation against each point.

(iv) BHEL reserves the right to increase or decrease the tendered quantity and to order on more than one vendor at the lowest acceptable price to BHEL. In ordering on more than one source, the ratio of quantity split will be as specified in the tender terms.

If not explicitly specified, BHEL reserves the right to split the quantity of the enquiry as follows: 70% quantity being ordered on the original lowest bidder (L1) and balance 30% on the next higher bidder/s excluding H1, who accepts the L1 price. However, the final decision to split the order rests with BHEL only.

In the event that the other than L1 suppliers do not accept the L1 price, then the balance will be reverted to the original L1 and the original L1 shall be bound to accept the balance of the enquiry quantity kept reserved for order splitting. This decision would be given by BHEL within 60 days of the price bid opening.

Notwithstanding the quantum of split that may be indicated in the main body of the enquiry, bidders are advised to note that the splitting of the orders will be decided by BHEL after the evaluation of the techno-commercial and price bids.

(v) Offers for part quantities on item level basis are not acceptable to BHEL. While tenderers can quote for some or all the tendered items, no supplier shall quote for partial quantity of any given enquiry item. Such partial offer would not be considered in the enquiry for that item. Suppliers are to note that the evaluation unless otherwise specified will be on item level and not for the tendered items as a whole.

C] Evaluation of Offers

a) The price bids including the impact price (if any) of the technically acceptable offers alone shall be opened.

b) Offers with pre-conditions (like conditional discounts) for price are liable to be not considered / rejected. For evaluation such conditions would be removed and only the base offer would be considered for evaluation and comparison.

d) In the event of any change in scope / quantity arising out of the discussions, offerers would be given a chance to submit their revised offer / Impact bids. The option for the revised offer / impact offer will be triggered by BHEL. The Supplier then will have the facility to feed-in the revised price / impact price as per the provision given by BHEL. The impact price can be positive or negative (or nil). The impact price option shall contain only the price addition / deletion for such change in the scope / quantities, over and above the original scope and price quoted. The original price quoted would remain unchanged. The total price would then be computed by the arithmetic addition of the original price and the impact price. Where BHEL gives the option of submitting the revised offer, the impact would be computed as the arithmetic difference of the revised price and the original price.

- e) For evaluating the overseas offers, CFR Chennai Sea Port price quoted will be taken into account. The cost to BHEL will be arrived at by loading the applicable customs duty project wise, insurance charges, inland transportation charges to BHEL stores and LC charges etc., f) Deleted.
- g) BHEL reserves the right to reject without assigning any reasons / load any offer with factors other than already specified for such offers having deviations to BHEL Specifications, Standard Terms & Conditions at its discretion. The decision of BHEL in this regard shall be final.
- h) BHEL reserves the right to reject an offer due to unsatisfactory performance during tender finalisation / execution of a contract at any of BHEL projects / units in the past or if unsatisfactory performance report is received from the party/s referenced by the supplier at any time during tender finalisation.
- i) BHEL reserves the right to operate Purchase / Price preference to Government of India Undertakings, which shall be given as per the guidelines of Government of India given from time to time and / or relax the Terms and Conditions of the tender.
- j) For the purpose of comparing prices, tender prices shall be converted to Indian rupees and the conversion shall be made by using the TT Selling rate of State Bank of India (SBI) prevailing on the date of opening of Techno-Commercial / Unpriced bids. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken. This exchange rate will be followed till placement of order. Tenderers may please note that even if an impact price is taken as in (d) for purpose of price evaluation and arriving at the rank; the exchange rate will be taken as explained above.
- k) Unless otherwise specified, evaluation will be on individual line item basis only and ordering will be on respective L1 vendors.
- l) BHEL reserves the right to conduct negotiations on the “Price” and “Other Commercial Terms and Conditions” with the lowest ranked offerer at any time after the bid opening but before the release of the Purchase Order and If so required by BHEL, Supplier may have to share their costing sheet with BHEL.
- m) Bidders are required to confirm in writing in their techno-commercial document that other than themselves (the bidder) none of its group companies, concerns or affiliates etc., are participating in the tender either directly or indirectly or through any other agency under the same proprietor / common partner(s)/ common Directors. If during the evaluation of the bids it is found that the bidder has submitted the offer in violation of this condition then all the offers received from the group companies would stand rejected. If such relationship is found at a later date where the Purchase Order has been issued, then BHEL would cancel the Purchase Order and initiate suitable action/s under the contract/s including but not limited to invoking the Risk Purchase clause of the order and other applicable legal provisions / guidelines of BHEL including guidelines on suspension of business dealings. (Please see clause L sub-clause c).
- n) For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019 & 04.06.2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/ PO/ WO against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable.”



Preference to Make in India including counter offering will be as per the Public Procurement (Preference to Make in India), Order 2017 available in the following links <https://dipp.gov.in/public-procurements>

http://dipp.nic.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf

http://dipp.nic.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf

https://dipp.gov.in/sites/default/files/PPP-MII%20Order%20dt%2029th%20May%2019_0.pdf

<https://dipp.gov.in/sites/default/files/PPP%20MII%20Order%20dated%204th%20June%202020.pdf>

D] Execution of the Order

a) BHEL will have the option to pre-inspect the materials at Supplier's works by BHEL's own inspector or by third party agency appointed by BHEL or BHEL's end customer/s. The mere act of the pre-dispatch inspection (PDI) does not absolve the Supplier from giving the specifications as agreed upon in the Purchase Order. In the case of inspection being carried out by a third party inspector (TPI) as per the extant practice, the TPI would forward the Inspection Report (IR) along with Test Certificates and other related documents to the Quality Assurance (QA) Department of BHEL. The QA department after scrutinising the report/s submitted by the TPI would issue the Material Dispatch Clearance Certificate (MDCC). Suppliers are hereby informed that materials should be dispatched only after getting the MDCC, failing which the materials may be rejected on receipt at BHEL Stores.

b) In the case of overseas suppliers Inspection call for carrying out the inspection shall be given 30 days before the scheduled contract delivery date. The Inspection date/s given by the Supplier shall be on firm basis. For local Suppliers the Notice period of Inspection shall be 10 working days.

c) Deviations, if any pointed out by the visiting Inspection team of BHEL shall be corrected and the items as per specification shall be dispatched on or before the contract delivery date after getting the MDCC.

d) The final inspection for acceptance will, however be carried out at BHEL's works at Ranipet.

e) The contract delivery date is the date of receipt at BHEL Stores for suppliers in India, applicable in the case of FOR Destination Contracts.

For ex-works contracts or FOR dispatching station indigenous contracts, the date of the Lorry way bill issued by the authorised transport carriers of BHEL / Railway Receipt / Courier Way bill / Airway bill or any such dispatch documents of carriage approved by BHEL would be considered as the Contract Delivery Date. In the case of CFR contracts with overseas suppliers, the B/L date shall be taken as the Contract Delivery Date

f) Travel & other local stay cost for the Inspectors sent by BHEL will be to BHEL account, but other Inspection Charges, if any shall be to the account of the Seller only.

g) The supplier shall arrange for packing suitably in all respects for normal transport by sea / rail / road and Materials shall be suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports / store yards and as per BHEL TDC.

h) Foreign suppliers shall dispatch on CFR agreed Sea-Port basis, according to the contract conditions. Indian suppliers shall dispatch on free delivery (door-delivery) at BHEL stores basis only. Unloading the materials at BHEL Stores would be to the account of BHEL only.

i) In the event of any short supply, it shall be the responsibility of the supplier to deliver such short supplied/ missing items on Free-of-Cost basis at BHEL stores, including customs clearances at Indian Ports in the case of foreign suppliers.

k) Terms of payment:

k.1) For Indigenous Suppliers: Unless otherwise agreed to by BHEL, the standard payment terms of BHEL shall be: For non-MSE suppliers 100% payment made directly through EFT within 90 days from the date of receipt and acceptance of materials at BHEL Stores, Ranipet or 90 days from the date of acknowledgement of receipt of materials at destination specified. If any supplier asks for payment terms other than the above specified, then suitable loading on cost will be considered. **Loading of any deviation in the payment terms**

w.r.t tender terms will be “Base rate of State Bank of India (SBI) (as applicable on the date of bid opening: Techno-commercial bid opening in case of two part bids) + 6%, will be considered for loading for the periods of relaxation sought by bidders.

k.2) For MSE vendors (under Micro & Small category alone) 100% payment will be made within 45 days from the date of receipt and acceptance of materials at BHEL Stores, Ranipet or 45 days from the date of acknowledgement of receipt of materials at destination specified. Vendors to get themselves registered in Udyam registration Portal. The existing Micro & Small vendors are to submit copy of CA certificate along with Udyog Adhar Registration Certificate.

l) NOTE:

Where the destination specified is other than BHEL Stores Ranipet, for claiming payment, Supplier has to submit proof of receipt of the materials at the destination by furnishing a copy of the acknowledged despatch document (LR/RR/Courier receipt etc.) .

If the Bidder is bidding for the first time and wants to be considered as an MSE then, the Bidder shall submit document evidencing that they are an MSE along with a certificate from a Chartered Accountant certifying the status of their Unit / Works clearly specifying the address of the works which is to be considered as MSE and send the same to BHEL, Ranipet either before the tender opening date or upload it as a part of the tender document in the e-procurement portal. Where the document is submitted electronically a hard copy shall invariably be sent within a reasonable period (not exceeding 30 days) from the bid opening date for the purpose of BHEL's records. If the hard copy is not received within this specified time, then the supplier would be treated as a non-MSE. BHEL will not be responsible for any postal / courier / delivery delays.

For approved vendors the status as on the date of the bid opening as available with BHEL Ranipet's records shall be used for reckoning the status of the Bidder as an MSE or otherwise.

Offer/s received without these documents will be treated as non-MSE and order finalization will be done based on this premise. Documents submitted after Bid-opening will not be considered in this tender. This provision for MSE will apply subject to the condition that the participating MSE meets the tender requirements.



For approved suppliers, in case of any change in the MSE status, it shall be the responsibility of the Bidder to notify the change as a part of the Bid document. If at a later date it comes to the knowledge of BHEL, Ranipet that the change in the status has not been intimated by the Bidder and the order is obtained under the premise of an MSE then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the Bidder as per the procurement policy of BHEL. Similarly if a supplier claims MSE status after the Part I bid opening, then the same would not be considered in the tender.

In case after the bid opening it is seen that no MSE has become L1, then depending on the nature of the item, if it is not possible to split the tendered items / quantities on account of reasons like customer contract requirements of supplying one make for a given project or technical reasons like the tendered item being a system etc. then BHEL would not counter offer the L1 prices even though there may be MSE bidders within the +15% band of L1.

Other concessions for MSEs / Reserved sectors (Also for women owned MSEs and MSEs owned by SC/STs)

In addition to the concessions specified above, MSE suppliers will be eligible for such other concessions as per the MSME Act 2006 and any other benefits / concessions that may be announced by the Government of India from time to time.. However, such concessions as applicable at the time of tender opening alone will be applicable. Any concessions advised after tender opening will not be considered for the current tender.

Items that are reserved for MSE and for any other items for which reservations for Indian manufacturers are notified by the Govt. Of India, such concessions as prevailing on the date of tender opening shall apply as a part of this tender conditions. ii) Foreign Suppliers “100% thru’ irrevocable & unconfirmed LC at sight within 3 weeks from the PO date through any one of our Bankers listed elsewhere in the tender conditions for 100% value (less Agency

Commission, if any) valid up to the PO delivery period and 15 days thereafter for negotiation. All bank charges in India to BHEL's account and all other charges outside India to Supplier's account. **BHEL would load the price of foreign suppliers in order to bring them on common platform as per Indigenous Suppliers on the account of differential payment terms to Indigenous Suppliers. Loading of payment terms will be “Base rate of State Bank of India (SBI) (as applicable on the date of bid opening: Techno-commercial bid opening in case of two part bids) + 6%, will be considered for loading for the periods of relaxation compared to indigenous suppliers i.e. 90 days.**

m) Any incidence of tax like Income tax, Goods & Services Tax (GST) and Withholding any other similar tax / duties /levies imposed by the Government of India, or the State Government, where the BHEL Unit is located, deductible at Source, during the tenure of the Order shall be deducted by BHEL and necessary certification of the deduction (Tax deduction at Source) would be given. This is subject to the supplier fulfilling the necessary documentation as specified by the Government of India. (e.g. Tax Residency Certificate, PAN Number etc.)

n) The Guarantee period shall start from the “Date of receipt and acceptance of the materials at BHEL Stores.”

E] Liquidated Damages Clause:

BHEL will levy penalty as Liquidated Damages (LD), for delay in delivery. The damages shall be at the rate of ½% per week or part thereof subject to a maximum of 10% PLUS applicable Goods & Services Tax

(GST). The contract delivery date for purpose of L.D is the date of receipt at BHEL Stores for suppliers in India for F.O.R. Destination Contract and the date of dispatch clearance given by BHEL for overseas suppliers. For ex-works or F.O.R dispatching station contracts, the date of the dispatch document will be reckoned as the date of delivery for computing the LD. Supplier shall deduct the applicable LD from the first payment when raising the claim for the same. The applicable LD if any would be communicated by BHEL along with the dispatch clearance. It is taken by BHEL that Foreign Suppliers have confirmed their acceptance to BHEL for opening the LC for value which is the value of the order reduced by the applicable LD. The LD would apply on the undelivered portion only. In case of reasons attributable to BHEL for the delay in delivery (for e.g. delay in arranging the pre-inspection) then the delivery time would be reset to the extent of the time delay attributable to BHEL, with waiver of the LD. Delivery being the essence of BHEL's contract requirements, unless otherwise specified the LD would apply on the undelivered portion of the contracted items. **In the event that a Supplier does not accept the LD condition above, the offer would be loaded to the extent of the shortfall with respect to upper limit specified above.**

F) Miscellaneous

i) Role of Principals and Agents:

BHEL will deal directly with indigenous manufacturers only.

BHEL strongly discourages the engagement of Agents in India by foreign principals, to deal with BHEL, in BHEL's tenders.

BHEL will not enter into any correspondence with an Indian Agent.

The Indian Agent will not be extended the privilege given to the principals, such as that of attending the tender openings, attending technical discussions, commercial discussions or price negotiations and such like.

In case, in spite of the above, a foreign principal insists on engaging an Indian Agent, It is made clear by BHEL that:

It is the sole responsibility of the foreign principal to ensure the Agent does not represent any other foreign principal in a given tender.

An undertaking to this effect shall be given by the foreign principal that his / her Agent does not represent any other foreign principal in the tender. This document shall form a part of the techno-commercial offer.

A Principal shall authorise only one Agent to quote against each BHEL's tender. In the event a Principal authorises more than one agent to quote against a BHEL's tender, then all such offers will be rejected by BHEL in that tender. Principals are also advised to include BHEL's tender Number / Reference in their authorisation issued to the Agent.

If at any stage of the tender, BHEL finds that an Indian Agent has represented more than one foreign principal, all such offers of and all the foreign principals would be disqualified summarily in the tender inquiry.

BHEL will only give an intimation of notice of the disqualification. No correspondence would be entertained by BHEL, on their decision. Such decision of BHEL shall be irrevocable, firm and final and shall be binding on the tenderer.

BHEL, due to business reasons would ban, would have banned Indian agents from dealing with BHEL.

Any foreign principal who engages such a banned agent, or an employee of the banned agency, or any other person connected with the banned agency, at any time during the tender proceedings, would be disqualified from the tender proceedings. The decision of BHEL in this regard shall be final and be binding on the OEM.

Hence in their own interests, prospective tenderers may check with BHEL, the status of their proposed agent vis-à-vis BHEL.

In view of the requirement of BHEL, it is strongly suggested that in their own interest, foreign principals may desist from engaging any Indian agent and deal with BHEL directly and it is stressed that any Main producer proposing to deal with BHEL by engaging and through an Indian Agent does so at their own risk.

BHEL shall in no way be responsible for any consequences that may arise to the foreign principal on account of the antecedents / actions of their Indian Agent.

In the event of the foreign principal engaging an Indian Agent:

a) The Supplier shall furnish an authenticated copy of the Agency Agreement with his agent detailing the precise relationship between them and their mutual interest in the business along with techno commercial bid.

b) The Supplier shall furnish original authorization letter for the Indian Agent. The letter shall contain name, contact person, complete postal address including phone, fax and e-mail ID. It shall also spell out the type of services to be rendered by Indian Agent.

c) Indian Agent & Agency commission: An Indian Agent can represent only one Foreign Manufacturer against a particular Tender. The CFR price quoted by the foreign bidder shall include the agency commission. However, the agency commission component payable to their Indian Agents shall be shown separately in the Offer, either as a lump-sum or as a percentage of the quoted price. This will be paid by BHEL in Indian Rupees, on satisfactory receipt & acceptance of the materials. For calculation of Rupee equivalent of Agency Commission, exchange rate as prevailing on the date of Purchase Order will be taken and

d) For all discussions, technical clarification and negotiations etc. only the principal would be authorized for interaction with BHEL. The Agent shall not be a party to the discussions / negotiations and would not be normally allowed to participate.

ii) Terms & Conditions of Letter of Credit (L/C) for overseas suppliers (indicated for acceptance).

a) Unconfirmed irrevocable Letter of Credit at Sight only will be opened by BHEL. Confirmation of L/C is not preferred by BHEL. Also L.C will be opened in Lots in line with the staggered delivery.

b) All Bank charges out side India are to the Supplier's account and within India to BHEL's account.

c) In case of L/C extension caused by delays attributable to the Supplier, the L/C extension / commitment charges are to be borne by the Supplier.

iii) Other terms & conditions for letter of credit: - Documents for negotiation

- a) Signed Commercial invoice in quadruplicate, for a value not exceeding the draft amount, quoting the import Licence No and certifying goods evidencing shipment of the merchandise are as per Applicant's Purchase Order. The amount of invoice after deducting Indian Agent's commission, if any, should not exceed the Credit amount. (The Indian agent's commission, if any, is payable in India in Indian rupees only.)
- b) Certificate of Country of Origin, from the country of manufacture, issued by the Chamber of Commerce.
- c) One set of Original and two sets of Non-negotiable copies of 'signed', 'unmarked', 'clean on board' Ocean Bill of Lading, showing Shipper as "Government of India" Account M/s. Bharat Heavy Electrical Ltd, Unit: BHEL, Ranipet as consignee (The opening bank should not be notified as consignee), marked freight payable / prepaid at destination.
- d) Packing list in 4 copies in English, indicating Size wise Number of bundles / pieces shipped and weight.
- e) Certified copy of the fax / e-mail sent by the beneficiary to the applicant giving the following particulars of shipment, as the insurance is to be arranged by the Applicant in India: (a) Purchase Order Number & date; (b) Bill of Lading Number & date (c) Name of vessel; (d) Port of Loading; (e) Number of bundles / pieces and weight; (f) Invoice Number, date and value (g) Purchase Order item number's despatched. The cable / fax is to be sent within 2 working days of shipment.
- f) Beneficiary's certificate showing the relevant airmail / courier reference no. and date that the following clauses have been complied with:
 - 1] Beneficiary to forward by Registered Airmail / Courier one complete set of original documents and one set of non-negotiable documents within 3 working days of obtaining shipping documents to Regional Manager (ROD), Bharat Heavy Electricals Ltd, 6th Floor, EVR Periyar Bldg. No 690 (Old 474), Anna Salai, Nandanam, Chennai-600035. India. (Phone: +91-24330931, 24330253; e-mail: pbpwar@bhel.in)
 - 2] Beneficiary to courier at his cost 3 copies of complete set of non-negotiable documents to the Officer who released the Purchase Order.
 - 3] Declaration by the Supplier certifying that the contents in each case are not less than those entered in the invoices / packing list and that the invoicing for the supplies effected is strictly in accordance with agreed rates as stipulated in the Purchase Order.
 - 4] Declaration to the effect that all other documents as per purchase order has been couriered to the Purchase order releasing authority
 - 5) The carrying steamer should be seaworthy, less than 25 years of age and approved by Lloyds / Classification Societies / General Insurance Corporation of India from time to time and
 - 6) Copy of Dispatch Clearance / Instruction issued by BHEL.

iv) Documents to be sent directly to the Purchaser prior to shipment

- a) Manufacturer's Original Internal Inspection / Test certificate in triplicate.
- b) Manufacturer's Original Guarantee certificate as per Purchase Order. The material shall be guaranteed for a period of 12 months from the date of acceptance of the materials at BHEL stores or 18 months from the

date of dispatch whichever is earlier. The acceptance would be evidenced by the Stores Receipt Voucher (SRV) which will be raised by BHEL.

- c) Inspection / Test Certificate issued by BHEL / Inspection agency specified in the Purchase Order. In the event that Inspection prior to dispatch is not carried out by the Engineers of BHEL, the Inspection certificate of the third party so authorized by BHEL and
- d) Any other documentation as specified in the Purchase Order.

v) Conditions for transportation:

- a) All shipping documents shall show the Purchase Order Number & Date, Import Licence Number & Date, and Letter of Credit Number & Date. b) Transhipment is to be avoided.
- c) Loading on deck is not permitted. The transport document must not contain a provision that goods may be carried on deck.
- d) A transport document which is produced or appearing to have been produced by reprographic, automated or computerized systems or as carbon copy will be accepted as an original document provided that it is marked as original and is ink-signed.
- e) The transport document must contain all the conditions of carriage on the original document.
- f) The transport document must not indicate the place of destination as being different from the port of discharge.
- g) The transport document must not contain the indication 'intended' or similar qualification in relation to the vessel or other means of transport or port of loading or port of discharge.
- h) The transport document must be issued by the carrier or his agent and not by any freight forwarder.
- i) Transport documents bearing reference by stamp or otherwise, to costs additional to the freight charges are not acceptable.
- j) The Bills of Exchange must be dated and presentation of documents for negotiation must not be later than 15 days after the date of shipment and in any case not later than the expiry date of the Credit.
- l) Indian suppliers shall dispatch the materials on freight prepaid and on door-delivery basis (FOR Destination – Destination: BHEL Stores) and
- m) In the event there is a delay by the Supplier in negotiating / submitting the document, any demurrage / wharfage arising out of the same shall be to the account of the Supplier and shall be deducted from the final payment. Also, in such cases, the Supplier shall authorize the Steamer / Shipping agent / transporter to freely release the consignment to BHEL by providing a “Surrender Bill of Lading”. Over-seas Suppliers have to give a No-Objection Certificate to BHEL, authorizing BHEL to get the Delivery Order from the Steamer Agent without producing the Original Bill of Lading. This is required to ensure avoidance of incidence of demurrage at Chennai Sea-port that may arise in case of delayed presentation of documents by the Seller.

G) Reverse auction (RA) / on-line bidding on internet:

1. Decision to go for RA would be taken before floating of the tender. In case it is decided to go for RA, same shall be declared upfront in NIT by inserting the following clause:
“BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.”
2. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit ‘Process compliance form’ (to the designated service provider) as well as ‘Online sealed bid’ in the Reverse Auction. Non-submission of ‘Process compliance form’ or ‘Online sealed bid’ by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for “Suspension of Business Dealings with Suppliers/ Contractors (as available on www.bhel.com).”
3. The philosophy followed for reverse auction shall be English Reverse (No ties).
4. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
5. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
6. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
7. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
8. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
9. Reverse auction will be conducted on scheduled date & time.

Note: Decision to go for RA or not will be on case to case basis and shall be informed in the NIT conditions .

1. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
2. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, to the Service provider within two working days of Auction without fail.
3. Bidders are be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction“, which will be communicated before the Reverse Auction.
4. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

5. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
 6. The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with their offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, would also be opened after the RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. It is considered that the bidder having submitted their offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rate/s.
 7. If it is found that L1 bidder has quoted higher in the online sealed bid in comparison to the envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).”
 8. The calculation sheet e.g. excel sheet (which will help to arrive at ‘Total Cost to BHEL’) will be communicated to respective bidders of RA by BHEL. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Goods & Services Tax (GST) and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.]
 9. This calculation sheet will be finalized based on the evaluation criteria specified in the NIT.
 10. Suppliers are required to submit their best price bid in a separate sealed cover along with techno commercial bid. After evaluation of Techno-Commercial Bids:
 - a) In case BHEL decides not to conduct RA, the envelope (sealed electronic price bid) sealed price bids of all techno-commercially qualified bidders, along with price impact, if any, would be opened and processed as per extant the internal Purchase/ Works Policy as applicable to BHEL.
 - b) In case BHEL decides to conduct RA, business rules of RA will be sent to service provider. (See Annexure for Model General Business Rules of RA.)
 12. Generally the start price for the RA would be the lowest of
 - a) Lowest envelope (sealed electronic price bid) sealed bid and
 - b) Internal Estimate of BHEL
- Note: Wherever more than one lowest online sealed bids are identical and lower than the estimate, the start price, would be that price arrived by reducing the lowest online sealed bid by maximum of one decrement.*
21. The start price & bid decrement will be decided by RA committee of BHEL and the same would be communicated to the service provider, to start the bidding process.
 22. Only those bidders who have submitted the ‘Process compliance form’ duly signed and within the scheduled time would be eligible to participate further in RA process.

23. RA will be conducted if three or more bidders are techno- commercially qualified . In case of more than four techno commercially qualified bidders , H1 bidder (whose quote is highest in sealed envelope (eps) price bids) will not be allowed to participate in further RA process. However there will be no H1 removal in case , H1 bidder happens to be MSE or qualifying under PPP-MII , order 2017 irrespective of the number of bidder qualifying techno commercially.
24. In case multiple H1 bidders, all H1 bidders (excluding MSEs and bidders qualifying under PPP- M11 Order 2017) shall be removed provided three bidders remain in fray, else no H1 removal.
25. If the lowest sealed envelope (eps) price bids is the starting price, then the lowest bidder in sealed envelope (eps) price bids shall be shown as current L1 automatically by the system. System would have the provision to indicate this bid as current L1 for further bidding.
26. If the start price is lower than the lowest sealed envelope (eps) price bids , on acceptance of such start price by any bidder, this bid would be indicated as current L1 for further bidding.
27. In case of no further bidding, RA will be deemed to have been successful with current L1 bidder.
28. All bidders who had given their bids would be able to see their rank and L1 price and their ranking L1, L2 etc. on the screen. Once the RA is done, the ranking status would be based on the last quoted price irrespective of quote received in RA or sealed envelope (eps) price bid.
29. RA shall be treated as failed in the following scenarios:
- a) In cases where the start price is (a) estimate or (b) one decrement (maximum) lower than the lowest of the online sealed bids and no bidder accepts the start price.
 - b) In cases where the number of online sealed bids are less than three.
- Wherever, the evaluation is done for individual line items, RA shall be treated as failed only for those line item(s) for which any of the above a) or b) satisfies.
29. In cases of failure of RA, retendering shall be resorted to without conducting RA in the subsequent tender
30. Whenever the evaluation is done on total cost basis, after RA, prices of individual line items shall be reduced on pro-rata basis.
31. In case of splitting requirement, H1 bidder(s) who were removed from participation in RA may also be considered for counter offer if the pre-stated (NIT) number of suppliers do not accept the counter offer. However the principle of splitting to N-1 bidder shall be maintained in line with extant Purchase Policy / Work Policy
32. In case BHEL decides not to go for Reverse Auction for the tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL would be opened as per BHEL's standard practice.
33. In case of enquiry through e-Procurement, the sealed electronic price bid (e-bid) would be treated as sealed envelope price bid.

Note: In order to bring more transparency and to address any queries of Bidders on Reverse Auction, an abridged version of BHEL's "Common Guidelines for conducting Reverse Auction (RA)" has been hosted in BHEL's web site www.bhel.com under the links "Supplier Registration Page" and "Tender Notification". All Bidders are requested to visit the link and familiarize themselves with BHEL's RA procedures and guidelines before submission of their bid/s. Submission of Bid shall mean that the Bidder has read and understood BHEL's RA procedures and the bid is in agreement with the same.

H] Force Majeure

If at any time during the currency of this contract, the performance in whole or in part, by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events), then provided notice of happening of any such events is given by either party to other within ten days from the date of occurrence thereof, neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

I] Cancellation of Order:

In the event of non-performance of the contract by the Supplier, BHEL reserves the right to cancel the order with issue of a written notice. BHEL would provide a curing period of 30 days, for the Supplier to rectify the situation. If the Supplier fails to rectify the reason/s that led to the issue of cancellation notice by BHEL, then the cancellation order would be issued automatically by BHEL, without further recourse to the Seller. BHEL will not pay any cancellation charges or any other charges / damages to the Supplier, arising out such cancellation. In the event of the non-performance of the supply contract, by the Supplier, the rights of BHEL include, in addition to cancelling the order, to take alternate purchase action at the cost and risk of the supplier. The additional expenditure to be incurred by BHEL in such alternate purchase would be to the account of the supplier. (Risk Purchase). This remedy would be in addition to the invoking of the CEBG on grounds of failure of the Supplier in executing the Contract and any other legal remedies." BHEL reserves the right to initiate the alternate purchase action at the cost and risk of the erring supplier by issue of a simple notice of intention for the alternate purchase action duly sent by any electronic means and / or by a letter. The cancellation of the order would not be a pre-condition for initiation of the alternate purchase action.

J] Contract Execution Bank Guarantee:

To demonstrate the fidelity of the successful bidder, in executing the Contract, on receipt of the Letter of Intent / Purchase Order, the Supplier shall arrange to provide a contract execution bank guarantee (CEBG). The format of the CEBG is a part of this enquiry. The format may be downloaded and necessary stamping may be obtained from the Banker towards submission of the CEBG. The indigenous suppliers have to provide the CEBG from any one of the Nationalized Banks, listed in the annexure to these terms. Overseas suppliers can submit the CEBG from any of the reputed International / National Bankers. However the



CEBG is to be confirmed by any of the Bankers listed by us. In the event of failure by the Supplier to execute the contract either fully or partially, BHEL would encash the entire CEBG. The CEBG shall be valid for the period covering the agreed delivery date of the order with a further claim period of 3 months on the last specified delivery date. In the event of the failure of delivery BHEL would proceed with encashing the CEBG without reference to the Supplier. In the event of BHEL granting extension of the delivery dates, then the CEBG validity shall also be got extended by the Supplier to the extent of the extended delivery times together with the claim period as specified elsewhere. **The CEBG shall be for a value of 2% of the Purchase order.**

Suppliers who are all already registered with BHEL and having a vendor performance rating of A or A+ grade would be exempted from submission of CEBG.

Performance Bank Guarantee

Where ever so required, the Supplier shall arrange to provide a Performance bank guarantee (PBG). The indigenous suppliers have to provide the PBG from any one of the Nationalized Banks, listed in the tender terms. Overseas suppliers can submit the PBG from any of the reputed International / National Bankers. However the PBG shall be confirmed by any of the Bankers listed by us. The PBG shall guarantee the performance of the equipment / materials / items supplied and shall cover the guarantee period. The PBG shall have a claim period of 3 months in addition to the guarantee period. In the event of failure of the supplies made within the guarantee period, BHEL would encash the entire PBG. **The PBG shall be for a value of 10% of the Purchase order.**

The supplier/s have to get the PBG format (pre-printed) from BHEL and get the same stamped by the Banker. Change of PBG terms either by the supplier's Banker or by the supplier, after servicing of the order is not acceptable. Similarly PBG prepared by the supplier (typed by them) will also not be acceptable to BHEL. The pre-printed form issued by BHEL shall be used for making the PBG.

K] Post-order submission of documents for approval

In the event of the release of Letter of Intent (LoI) / Purchase order/s (PO) against this tender, Bidders have to submit the applicable documents as called for in the tender / LoI / PO/s, such as drawings, data sheets, design calculations etc. These documents for approval have to be submitted within the agreed timelines between BHEL and Bidder. Normally the time period for submission for approval is 15 days from the date of receipt of the LoI / PO by the supplier. The actual time period within which the documents have to be submitted for approval would be specified in the LoI / PO.

Such documents would be subjected to evaluation and approval by BHEL and / or by BHEL's customer / Consultant / Customer's Consultant. Bidders have to give their specific acceptance for this.

After approval of such documents and after getting clearance from BHEL, only the items ordered can be taken up for manufacture.

Any changes required by BHEL / Customer etc. in the documents submitted for approval shall be incorporated by the Bidder and no extra cost would be payable by BHEL for such changes.

In the event that the Bidder does not carry out the required corrections, then the LoI / PO would be liable for cancellation by BHEL and BHEL would resort to alternate purchase action at the risk and cost of the Bidder under the Risk Purchase Condition of the Purchase Order.

Note: After receiving the LoI / PO, supplier shall also forward the acknowledgement / acceptance of the LoI / PO by signing and returning the second copy of the LoI / PO as the token of acceptance.



L] Others

a) In case of any contradiction in the terms and conditions given here and elsewhere in the other documents of the tender, it shall be the responsibility of the tenderer to get it clarified from BHEL. The officer authorized to provide such clarifications is the tender issuing officer.

b) Alterations to the conditions of the Tender can be done only by the authorized officer, at any time before the date and time of tender opening and would be duly communicated through a corrigendum. c)

Suspension of Business dealings with Suppliers:

(i) Before submitting offer, prospective bidders are advised to visit our web-site www.bhel.com / supplier registration to familiarize themselves with BHEL's policy and procedures of Suspension of Business Dealings with Suppliers.

Submission of offer shall be deemed to be evidence of the Bidder to have read and understood the above said policy.

ii) Treatment of Banned / Under-performing Vendors:

Any supplier who has been put on "Hold" or "Banned" from having business dealings with BHEL, Ranipet or any other unit of BHEL shall not submit their offer against this tender. If any such offers are received they would be summarily rejected and sent back. During the processing of tender, if any unit of BHEL puts a supplier on "Ban" then further processing of the offer will not be taken up and in case an order is placed, BHEL, Ranipet may resort at their discretion to cancel the PO either fully or partially.

If any of the supplier who is supplying similar material to BHEL, Ranipet has a Vendor Performance Rating (VPR) score of 'C' or below, then offer given by such parties will not be considered for ordering in this tender.

If any of the Bidders have unexecuted order/s with BHEL and if in such orders, the deliveries have been delayed beyond a reasonable period (say 30 days of agreed delivery period), the offer of such Bidders will also be liable for rejection.

Offers of such of those bidders against whom action for suspension of business dealings has been initiated by BHEL, Ranipet or any other Units/Division of BHEL will also not be considered in this tender.

d) Fraud Prevention Policy:

The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.

e) Applicability of Integrity Pact:-

IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. A panel of Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.



Sl.No	IEM	Email
1.	Shri Arun Chandra Verma, IPS (Retd.)	acverma1@gmail.com
2.	Shri Virendra Bahadur Singh, IPS (Retd.)	vbsinghips@gmail.com

The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid(Part-I, in case of two/three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM(s).All correspondence with the IEMs shall be done through email only.

Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

For all clarifications/ issues related to the tender, please contact:

Name: (1) (2)

Dep't: Address:

.....

.....

Phone:(Landline/Mobile) (1) (2)

Email:

Fax:

Integrity Pact are applicable for all the BHEL enquiries whose estimated value is equal to or more than Rupees 05 Crores.

Copy of Integrity Pact with applicable nominated IEM is attached along with the tender documents for ready reference of Suppliers.

f) If any Supplier attempts to bribe, or pay commission, gift or any advantage or bring in undue influence either by himself or on his behalf any one including a stranger to the tender, in addition to instituting legal proceedings as per the extant laws prevailing, will disqualify the supplier from this tender and all future tenders of BHEL. Decision of the Purchaser would be final in this matter.

g) The laws governing this transaction shall be the laws in India.

h) Wherever not specified, Inco terms 2010 shall be used to interpret the Commercial terms and conditions and

i) In the event of an order, Supplier shall agree to settlement of disputes or differences, if any, by way of arbitration, in accordance with the "Rule of Arbitration" of the Indian Council of Arbitration.

The language in the tender documents downloaded by the Bidders shall at no point of time be changed, altered or modified in any manner by the Tenderer. If such changes are made by any tenderer, it shall be considered as tampering with BHEL's terms and the offer shall be summarily rejected, whenever it is noticed by BHEL. Such Bidders would be disqualified from the Bidding Process and their offers would be forfeited / Bank Guarantees invoked. They would also not be allowed to participate in future tenders of BHEL.

M. Conditions for rejection of offers:

Following is the list of situations which would lead to rejection of offer/s.

This list is not exhaustive but only indicative.

BHEL reserve the right to reject one or all offers without assigning any reason. The decision of BHEL will be final in this regard.

1. *If the offer fails to meet the technical requirements/specifications of the tendered item/s.*
2. *If the offer does not meet the commercial terms & conditions, such as but not limited to delivery period specified in the tender, Delivery terms, payment terms, Liquidated damages, Risk Purchase, cancellation clause etc., including the load factors specified in the tender.*
3. *If the bidder fails to respond to clarification sought, within a reasonable period. In case of doubts / lack of clarity on the technical and commercial offer of the bidder, BHEL will seek clarifications. Bidders are required to respond completely to such BHEL's queries within 3 working days unless otherwise agreed to in writing by BHEL for period beyond 3 days. If supplier fails to respond within 3 working days or maximum 2 working days on a reminder thereon, the offer of such bidders will be automatically dis-qualified in the tender without further recourse to informing the bidder.*

4. *If any of the conditions listed below are applicable to the bidder, the offer is liable to be rejected:*

If any

- Debt recovery / Winding up Proceedings are initiated against the Company in Courts / Debt Recovery Tribunals (DRTs),
- Proceedings are there against the Company in National Company Law Tribunal (NCLT) with respect to Insolvency and Bankruptcy Code (IBC) or otherwise,
- Any proceedings are there against the Company under the "Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act,
- Any restructuring proceedings are underway for the Company under Corporate Debt Restructuring (CDR), Strategic Debt Restructuring (SDR) or otherwise,
- Divestment / demerger proceedings are underway for the Company under the Companies Act.
- If action under guidelines of suspension of business dealings (Ref AA/MM/SB/01 Rev 02 dt 22.07.2016) and its latest revisions has been initiated against the company/bidder.

5. *Failure to sign & accept the Integrity Pact (where applicable). Bidders are hereby informed that the contents of the Integrity Pact are firm and fixed and cannot be changed.*

The above list is not exhaustive but is indicative only.

N. Special Note:

BHEL is a Government of India Undertaking. Its procurement practices are governed by the (Internal) Purchase Policy issued by the management of the company and as per Annexure B applicable at the time of finalising the order against this tender.

Record of Revisions:

Revision No.	Revision Date	Modification
01	17.08.2016	Payment terms for Foreign suppliers modified wrt loading- Clause k.ii
02	29.08.2016	Treatment of banned vendors – Para 3 added - Clause L.ii
03	14.09.2016	Opening of offers – clause B – sub clause ‘b’ included and existing clause ‘b’ renamed as ‘c’.
04	14.09.2016	Opening of offers – Note – sub clause (ii) modified
05	12.10.2016	Clause N. Special Note added
06	22.10.2016	Clause G Reverse Auction modified. Annexure on General Business Rules for Reverse Auction appended Role of Principals added under ‘Miscellaneous’
07	20.01.2017	Clause L (e) is modified. Clause L (f ,g ,h) renumbered.
08	24.02.2017	Clause F(c) modified.
09	08.07.2017	Clause M, Point 4 is added – regarding the financial health of the Bidder - as a criterion for disqualification.
10	20.07.2017	Duties and Taxes replaced with GST; Applicability of GST for LD inserted in Clause E; Treatment of poor performing current vendors inserted in clause L.c.(ii)
11	25.07.2017	Clause A.Note (iii) CST etc., replaced with GST; Clause C.f Deleted;
12	15.09.2017	Clause M, Point 5 inserted regarding Integrity Pact
13	21.03.2018	Clause A, Point xi inserted regarding Overwriting in Price Bids
14	28.05.2018	Clause A, a),b),c),d) amended for M/s E-Procurement technologies, https://bhel.abcprocure.com . Clause A, (f, g, h) – modified. Clause M, Point 4, - regarding suspension of business dealings inserted.
15	23.07.2018	Clause L,(e)- Applicability of Integrity Pact – modified.
16	31.08.2018	Clause C,(n)- Preference to Make in India – added.
17	04.12.2018	Clause C,(n)- Preference to Make in India & Clause K.2 Note - MSE concessions– modified.
18	13.02.2019	Clause C,(n)- Preference to Make in India – modified. Page no 9 Clause o – Extended credit period - removed.
19	24.09.2019	Clause C,(n) - Preference to Make in India – modified. Clause L,(e) - New IEMs Updated
20	11.03.2020	Clause L,(e) – IEM’s address removed



21	11.06.2020	Clause G – Reverse Auction modified
22	22.07.2020	Clause C,(n) - Preference to Make in India – modified. Clause k (2) - MSE registration modified

ANNEXURE

Model General Business Rules for Reverse Auction

This has reference to tender no {tender number....date...}. BHEL shall finalise the Rates for the supply of {item name} through Reverse Auction mode. BHEL has made arrangement with M/s. {Service provider}, who shall be BHEL's authorized service provider for the same. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. {...} dated {...}, (b) Bidders' technical & commercial bid (in case of two part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

1. Procedure of Reverse Auctioning

- i. Online Sealed Bid: This duration of online sealed bid will be {...} minutes. All bidders to submit their online sealed bids during this period.
- ii. Online Reverse Auction: The 'opening price' i.e. start price for RA and 'bid decrement' will be decided by BHEL.
- iii. If BHEL decides the lowest online sealed bid as the starting price, then the lowest bidder in online sealed bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.
- iv. Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process.
- v. After the completion of the online reverse auction, the Closing Price (CP) shall be available for further processing.

2. Schedule for Reverse Auction: The Reverse Auction is tentatively scheduled on {date}:

and the duration of online sealed bid will be {...} minutes. All bidders to submit their online sealed bids during this period. - **Online Sealed Bid:-**

- {Start Time:
- Close Time: }

- **Online Reverse Auction:-**

- {Start Time:
- Close Time: }

3. Auction extension time:

If a bidder places a bid in the last {...} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {...} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the autoextension will take place only if a bid comes in those last {...} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last {...} minutes. In case, there is no bid in the last {...} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc. The above process will continue till completion of Reverse Auction.

Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within 15 minutes prior to initial closing time of Online Reverse Auction.

4. **Bid price:** The Bidder has to quote the {.....} Price inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, GST, Freight (bidder to provide original Freight paid receipt), insurance charges, etc. including loading (if indicated by BHEL due to deviations in technical/ commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).

5. **Bidding currency and unit of measurement:**

Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications {...}

In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.

6. **Validity of bids:** Price shall be valid for {... days} from the date of reverse auction. These shall not be subjected to any change whatsoever.

7. **Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Online Reverse Auction will be considered as the bidder's final offer to execute the work.

8. Bidders shall be assigned a **Unique User Name & Password** by M/s. {Service provider}. Bidders are advised to change the Password and edit the information in the Registration Page after the receipt of initial Password from M/s. {Service provider} to ensure confidentiality. All bids made from the Login ID given to the bidders will be deemed to have been made by the bidders/ bidders 'company'.

9. Post auction procedure: BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.

10. Any commercial/ technical loading shall be intimated to bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during online sealed bid & Online Reverse Auction. Modalities of loading & de-loading shall be separately intimated to the bidders. The responsibility for correctness of total cost to BHEL shall lie with the bidders.

11. Computerized reverse auction shall be conducted by BHEL (through M/s. {Service Provider}), on prespecified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional 15 minutes will be given by the service provider provided such requests come before 5 minutes of auction closing time. However, only one such request per bidder can be entertained. Despite this extension if bidder fails to upload his prices due to extreme case of failure of Internet connectivity, (due to any reason whatsoever may be) it is the bidders' responsibility/ decision to send fax communication immediately to M/s. {Service provider}, furnishing the price the bidder wants to bid online with a request to the service provider to upload the faxed price online so that the service provider will upload that price online on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price to service provider has to solely ensure that the fax message is received by the service provider in a readable/ legible form and also the Bidder should simultaneously check up with service provider about the clear receipt of the price faxed. It shall also be clearly understood that the bidder shall be at liberty to send such fax communications of prices to be uploaded by the service provider only within the closure of Bid time and under no circumstance it shall be allowed beyond the closure of Bid time /reverse auction. It shall also be noted that the service provider should be given a reasonable required time by the bidders, to upload such prices online and if such required time is not available at the disposal of the Service

provider at the time of receipt of the fax message from the bidders, the service provider will not be uploading the prices and either BHEL or the service provider are not responsible for this unforeseen circumstances. In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements/alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {Service provider} is responsible for such eventualities.

12. Proxy bids: Proxy bidding feature is a pro-bidder feature to safeguard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid. Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant. In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price. Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

13. Bidders are advised to get fully trained and clear all their doubts such as refreshing of screen, quantity being auctioned, tender value being auctioned etc. from M/s. {Service provider}.

14. M/s. {Service provider}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {Service provider}, shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions/modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.

15. Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure-VI) for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to M/s. {Service provider} besides BHEL within two working days of Auction without fail.

16. Any variation between the final bid value and that in the confirmatory signed price breakup

Document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com).

17. Bidders' bid will be taken as an offer to execute the work/ supplies of the item as per enquiry

No. {...} dt. {...}. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on www.bhel.com).



18. Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction:
- a. Leading (Running Lowest) Bid in the Auction (only total price of package).
 - b. Bid Placed by the bidder.
 - c. Start Price.
 - d. Decrement value.
 - e. Rank of their own bid during bidding as well as at the close of auction
19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of M/s. {Service provider}, the terms & conditions given in this business document will supersede the information contained in the FAQs. Any changes made by BHEL/ service provider (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time..
24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on www.bhel.com), shall be initiated by BHEL.



RA price confirmation and breakup
(To be submitted by L1 bidder after completion of RA)

To

- M/s. Service provider
- Postal address

CC: M/s BHEL

BOILER AUXILIARIES PLANT
INDIRA GANDHI INDUSTRIAL COMPLEX
RANIPET – 632406
TAMILNADU
INDIA.

Sub: Final price quoted during Reverse Auction and price breakup

Dear Sir,

We confirm that we have quoted.

Rs.{ _____ in value & in words _____ } for item(s) covered under tender enquiry No. {...} dt.{...}

Total price of the items covered under above cited enquiries is inclusive of {Packing & forwarding, GST, freight and insurance charges up to {.....}
District, {.....} State and Type Test Charges etc., [exclusive of Goods & Services tax (GST)],
other as
per NIT}

as our final landed prices as quoted during the Reverse Auction conducted today {date} which will be valid for a period of { ____ in nos. & in words ____ } days.

The price break-up including that of line items is as given below.

Total

=====
- Rs.in value & in words
=====

Thanking you and looking forward to the valuable order from BHEL.

Yours sincerely, For

Name:
Company:
Date: Seal:

Sl. No	Annexure-C for Commercial Terms and Conditions	SUPPLIER COMMENTS: REQUESTED TO OFFER EITHER CONFIRMED OR ACCEPTED OR REMARKS IF ANY DEVIATION IS TAKEN
1.a	Terms of Delivery- : Project : Mouda FOR Destination and Destination for Mouda is Stores/ Mouda Project Site as indicated in the enquiry item annexure. (Cost, Packing, Forwarding ,Freight & Insurance etc., are in Supplier's scope i.e. included in the quoted prices.).	
1.b	Terms of Delivery- Project : BARH-I FOR Destination and Destination for Barh-I is Stores/ Barh-I Project Site as indicated in the enquiry item annexure. (Cost, Packing, Forwarding ,Freight & Insurance etc., are in Supplier's scope i.e. included in the quoted prices.).	
1.c	Terms of Delivery- Project : BARH-II FOR Destination and Destination for Barh-II is Stores/ Barh-II Project Site as indicated in the enquiry item annexure. (Cost, Packing, Forwarding ,Freight & Insurance etc., are in Supplier's scope i.e. included in the quoted prices.).	
1.d	Terms of Delivery- Project : North Karanpura FOR Destination and Destination for North Karanpura is Stores/ North Karanpura Project Site as indicated in the enquiry item annexure. (Cost, Packing, Forwarding ,Freight & Insurance etc., are in Supplier's scope i.e. included in the quoted prices.).	
2	FRP Pipes and Fittings as per attached technical specifications and Supervision of E & C Of FRP Pipes for a particular project will be considered as one set and will be procured as a SET basis.. Evaluation will be done on total cost to BHEL for the respective Set basis. There will be four sets (One set consists of FRP Pipes& Fittings and Supervision of E&C for one project):-Mouda, Barh-I, Barh-II and North Karanpura.	
3	Delivery Period: To mention clearly the exact delivery period from the date of approved Drg./ Data Sheet/ QP whichever occurs later will be considered .Delivery is the essence of the contract. Bidders are requested to consider Inspection time, Painting , Packing and Transportation time for the respective projects.	
4	Terms of payment: 1. Main supply: 90 % payment will be made directly thru' EFT within 45 days for MSE Vendors and 90 days for Non-MSE vendors from the date of receipt and acceptance of materials at Respective Project Site with submission of PBG. If the site is not ready for 2 years from the date of supply, then this balance 10% payment for the supply portion may be released within 45 days with the equivalent value of BG, valid for 2 years or till completion of E&C, whichever occurs earlier. 2. Supervision of Erection & Commissioning: 100% Supervision charges for E&C will be paid within 45 days for MSE /90days for non-MSE on successful completion of Erection and commissioning against submission of invoice with E&C completion certificate issued by BHEL site officials. (3). No advance payment is applicable. (4). No LC payment term is applicable. (5).No other payment terms except 1 & 2 of above is acceptable.If any bidder quotes for advance payment or LC payment or any other payment term other than above mentioned payment terms under 1&2 shall be liable for rejection of their bid on commercial terms.	
5	Contract Execution Bank Guarantee (CEBG): The Supplier shall submit a CEBG for 2% of the contract value valid for the agreed delivery period + 3 Months. Attached CEBG Format is to be signed and submitted along with Annexure-C as a token of acceptance. Please note that no deviation is allowed. If not accepted, offer is liable for rejection. Suppliers who are already registered with BHEL and having a vendor performance rating of A or A+ grade would be exempted from submission of CEBG	
6	PERFORMANCE BANK GUARANTEE (PBG): 10% OF ORDER VALUE is required as PBG for a period of 18 months from the date of last dispatch and 12 months from the date of commissioning whichever occurs later (including 3 months retention period). No deviation is acceptable.	
7	OFFER Validity: Minimum 120 days shall be offered from the date of Techno Commercial Bid opening (Part-I) or 30 Days from the date of Reverse Auction and whichever ever occurs later will be considered. The specific acceptance for this offer validity is must.	

8	Clientele List: Supplier to submit detailed clientele list with their full address including detail of contact person with phone no., fax no. & e-mail ID as per respective clause of Annexure - B (General terms and Conditions).	
9	Price bid opening through RA: BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading,if any, shall be considered for ranking.	

10	Test Certificate: To be submitted with Chemical and Mechanical properties and dimensions as per the Standards and Technical Delivery Conditions as mentioned in Technical Specification. The Test Certificate shall be as per Annexure Q.	
11	QP: Specific conformation to Submission of manufacturer/vendor quality plan for our review and approval and shall be as per annexure Q.QP will be reviewed by BHEL and approved by NTPC as per Quality requirement mentioned in tender documents.	
12	Guarantee Certificate : Please conform furnishing guarantee certificate in BHEL format for 12 months from the date of Erection & Commissioning or 18 months from the date of last despatch whichever is earlier.	
13	Warranty shall be as per technical specification	
14	Inspection before despatch: Inspection before despatch at supplier's works by BHEL / BHEL appointed Inspection agency / Customer / Customer appointed inspection agency. Other details shall be as per Annexure-Q and Annexure-QC.Inspection Documents check list should be accepted and signed and sealed copy of same should be submitted along with tender documents.	
15	Liquidated Damages (LD) : The applicable LD shall be at the rate of 0.5% of total order value per week of delay or part thereof subject to maximum of 10% of total order value. In case of staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of delay or part thereof subject to maximum of 10% of total order value. Delivery being the essence of BHEL's contract requirements, in the event that a Supplier does not accept the above LD condition, the offer would be loaded to the extent of the shortfall with respect to upper limit specified above. Date of material receipt at our stores (Day Book date) will be considered as the 'Delivery date as mentioned in purchase order.	
16	Risk Purchase Clause: As per clause-I of Annexure-B page no 17, Supplier Confirmation is Required. Non acceptance to risk purchase clause may leads to rejection of offer. Hence bidders are requested to accept risk purchase clause and no clarification on this will be entertained.	
17	GST in % (FOR INDIGENOUS SUPPLIER): To be indicated by the supplier. GST invoice is required for availing Input Tax Credit and conformation to pass on ITC.	
18	GSTIN of the supplier/Works.	
19	HSN Code(S) of the items offered.	
20	Firm Price: Prices shall be kept firm till completion of supplies and acceptance of materials at BHEL Project Sites.	
21	Supplier Registration Form- Online submission is to be done and soft copy of the same to be uploaded along with Technical Bid by new vendors.	
22	MSE / Non MSE Status with support documents should attached along with your other tender documents.	
23	Approximate weight and cubage of the consignment.	
24	Contact details of bidders: Contact persons Name/Designation/Mobile No/Email ID/Fax No/Phone No etc. should be furnished.	
25	Pointwise conformation/acceptance or comments to our technical specification is must and Each page shall be signed BY THE BIDDER and affixed the official seal.	
26	Deduction of Income Tax: (i) TDS shall be deducted, as applicable, for the supervision of E&C Charges. (ii) TDS return shall be filed and TDS certificates shall be issued by BHEL .	
27	For this public procurement (preference to make in India), order 2017 dt 15.06.2017, 28.05.2018 & 04.06.2020 and subsequent order issued by the respective nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any nodal ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable.	
28	Class I local supplier: Minimum Local content shall be 50%. Class II local supplier: Minimum Local content shall be between 20% to 50%. Non-Local supplier: Minimum Local content shall be below 20% Please furnish details of Supplier's Class and location where this value addition has been done (.....).	
29	Margin of purchase preference to make in India shall be 20%.	
30	False declaration will be in breach of the code of integrity under Rule 175 (i)(h) of the General Finance Rule for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Finance Rules along with such other actions as may be permissible under Law.	
31	Vendor shall duly filled and submit the MII local content declaration form as given in the tender.	
32	Vendor shall duly filled and submit the eligibility criteria form as given in the tender.	

Sl.No	Annexure-Q	##Specific confirmations by the manufacture
1	Quality Plan Requirement:	
1a.	(i) MQP (Manuafcutering Quality Plan) shall be submitted in attached format for BHEL/Customer review & approval. Typical MQP is attached for indicative purposes for guidance & use.	
1b.	(ii) MQP shall invariably cover w.r.t Inward inspection including on Raw materail Procurement, In process and Final inspection in elaborated way/details.	
1c.	(iii) Bidder shall also to give specific confirmation that on need basis, their competent officials shall visit to BHEL/customer for finalization of Quality plan including test procedure/methodology during preaward / post award approval / detailed engineering in the event of an order.	
1d.	(iv) No deviation on BHEL/Customer approved MQP is acceptable.	
1e.	(v) Bidder shall agree to submit all cross referred documents other than codes/standrads to BHEL/Customer/Consultant.	
2	Important Notes shall be included in MQP : (a) Latest revision of Standard s & Specification shall apply. Only International Standards are applicable. (b) Materials shall be procured in compliance to Functional Technical Specification. (c) Inspection shall be in compliance with Approved Quality Control Procedure for the Product. (d) NDT shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME Section V. (e) Gauges and measuring Instruments, with valid calibration only shall be used. (f) Cleaning and Painting of products shall be carried out as per Approved Painting Schedule. (g) Finished Products shall be packed to comply with Approved Packing Schedule.Packing Drawings to be submitted for approval. (h) Welding shall be carried out by Qualified Personnel with compliance to Approved NDT Procedures and Acceptance Norms, as per ASME Section V.	
3	Inspection will be carried out by BHEL/BHEL apointed Third Party Inspection Agency (TPIA) / Customer/Customer Apointed Inspection Agency/Consulatnat. This is applicable for all Stage inspection and Final Inspection identified as "W" - Witness or "CHP" - Customer Hold Point as per customer approved Quality Plan/ Technical specification / Approved Drawing/ Approved Data sheet / Scheme / PID / PFD / SLD (Process Instrumentaion Diagram / Process Flow Diagram / Single Line Diagram) etc (As applicable).	
4	Inspection Agency (1) Any one of the following Third Party Inspection Agency (TPIA) shall be appointed by the bidder and same shall be furnished by the bidder in techno commercial bid itself. (2) The details of probabale TPIAs are : List of TPIA 1.M/s Bureau Veritas 2.M/s TUV-Nord 3.M/s TUV-SUD 4.M/s TUV Rheinland 5.M/s Lloyds Register 6.M/s SGS 7.M/s Germanischer Lloyds 8.M/s QUEST 9.M/s Certification Engineers International 10.M/s Intertek 11.M/s IR Class Systems and Solutions 12.M/s DNV 13. M/s Fichtner 14. M/s ABS Inspection Services	

Sl.No	Annexure-Q	##Specific confirmations by the manufacture
5	Stage Inspection during manufacturing Process : Stage Inspection during manufacturing shall be carried out as per approved quality plan and all necessary documents shall be provided for review, verification and clearance for further processing. This inspection call shall be given well in advance (atleast 2 weeks before) to TPI/Bidder's own inspection agency to avoid delay in the manufacturing processes.	
6	Inspection before despatch : Inspection before despatch at supplier's works shall be carried out by BHEL/BHEL appointed Inspection agency. Inspection shall be done as per approved Quality plan/ Technical specification/ Approved Drawing/ Approved Data sheet .	
7	Painting shall be done strictly as per BHEL/Customer approved painting schedule / scheme only. Paint Thickness / Paint shade shall be ensured as per BHEL / Customer approved painting schedule / specification / data sheet etc. No deviation is acceptable unless otherwise accepted by BHEL/Customer in writing. Any conflict if any among BHEL / Customer approved painting schedule / Spec / data sheet etc shall be brought to the notice to BHEL well in advance before proceeding including the BOI being procured for assy / skid like motors etc	
8	Specific conformation for document package in the event of an order (2 Hard copies & soft copy in PDF file) is to be given containing the following with proper linkages (i) Index Sheet (ii) MQP/RQP/Endorsement Sheet (As applicable) (iii) TCs identified by BHEL/ Customer for record for "CHP" / "W" and Verification portion ("V") as given in approved QP. (iv) Final inspection report + TC including Chemical + Mechanical + HT + NDT etc (v) Third party Inspection report + TC (vi) Customer CHP/ MDCC (vii) Type test / Performance Test reports conducted (viii) Type test / Performance Test approval/ clearance obtained from BHEL/Customer (ix) BOM with As Build Drgs with actual make / rating used with BHEL/customer approved drawings.	
9	Packing shall be as per BHEL Packing schedule / approved drg. This shall be ensured to take care transit / handling / transshipment in Road / Sea / Air. Packing drawings to be submitted along with tender documents for approval. Photographs are to be submitted to BHEL and packing and painting inspection to be done before despatching the material as per contract conditions.	
10	Outsourcing of test facilities: Bidder shall ensure all the testing facilities in house. However If any of the test facilities are not available with successful bidder, then bidder shall ensure the same at NABL accredited third party lab / Govt / Govt Lab for major testing such as NDT, Electrical & Mechanical testing.	
11	Important Note: No deviation on the above requirement 01 to 10 is acceptable w.r.t Quality Requirement and those offers not meeting these specific customer requirement is liable for rejection and hence the bidder shall submit all the required documentary evidences in the offer itself.	
12	## Necessarily to be filled up by the bidder at the time of offer itself otherwise the offer may not be considered w.r.t Quality Requirement being customer specific requirement.	

S.No.	Annexure-QC Quality Control Requirement for Pre Inspection and Post Inspection. A Check List for Inspection document.	Vendor should offer acceptance and conformation against respective points. If any deviation to BHEL requirement, vendor should inform explicitly.
1	List of Inspection documents to be submitted after inspection of the items for getting dispatch clearance. Vendor shall provide signed inspection documents to BHEL/BHEL TPIA inspector during inspection and TPIA (Third Party Inspection Agency).	
2	Unpriced PO COPY with all amendment/s if any	
3	Latest approved Specification/Technical Specification, Drawing, Datasheet, P&I Diagram, Test procedures, Approved painting schedule, Approved Packing Drawing / Packing Procedure as per technical specification etc	
4	Approved QAP for the specific PO.	
5	CQIR Report (Disposal code should have Accepted all the offered QTY)	
6.0	As per approved QAP all the inspection documents to be submitted. Indexing of the reports as per QAP and each page should be numbered and correlated to approved QP or SQP clauses. If more than one test in each page, against each test the clause number of Approved QP / SQP to be mentioned. Inspection clause shall be mentioned against each test.	
6.1	As per approved QP / SQP, Raw Material Test Certificates shall be provided (NABL approved Lab TC/Manufacturer TC) indicating Mechanical properties, Chemical Properties, UT etc.	
6.2	As per approved QP / SQP, In process Inspection Reports like Hydro test, Dimension Report, MPI, UT, Balancing etc. should be provided.	
6.3	As per approved QP / SQP, Final Inspection Reports like Shop Assembly with testing reports, Hydro test/Leak / Pressure test reports, Type test Reports, WPS/PQR/WPQ Reports, PT/RT/UT/MT Reports etc. should be furnished.	
6.4	Final Inspection report like surface preparation & Painting/Metal finishing reports, Packing (Sea worthy packing / Special Packing requirement) should be furnished	
6.5	Clarification mail issued from BHEL Ranipet (Engg/QA/QC/Purchase) if any also to be furnished.	
6.6	Material should be dispatched after getting BHEL Quality Clearance . QC-BHEL will be responsible for getting despatch clearance from its customer. (NTPC/NON NTPC)	
7	Relevant pages of latest standard/s shall be attached along with other report/s.	
8	Approved categorization from customer ((NTPC/NON NTPC) also to be attached.	
9	Calibration reports of the instruments/machines/machineries used for inspection are to be signed by TPI after verification	
10	Above said documents are should be in single .pdf file with not more than 10MB (if more than 10MB can be split into multiple files).	
11	Hard copy of the same Indexed as per QAP to be submitted along with material dispatch.	

MAKE IN INDIA : DECLARATION

*(To be submitted In the company letter head by supplier)

Subject: Public Procurement (Preference to Make In india)

References:

- 1.P-45021/2/2017-B.E-II dated. 15th June-2017,
- 2.P-45021/2/2017-PP(BE-II) dated. 28th May-2018 ,
- 3.P-45021/2/2017-PP(BE-II) dated. 29th May-2019.
- 4.P-45021/2/2017-PP(BE-II) dated.4th June-2020

We hereby declare with reference to above subject and references that
M/s ----- (Tick whichever is applicable as below)

"Class-I local supplier" meeting the requirement of minimum local content equal to 50%(fifty percent) or more defined in the above government notification for the goods and services (or)

"Class-II local Supplier" meeting the requirement of local content 20% to less than 50%(fifty percent) defined in the above government notification for the goods and services

Please mention the details against the following:

Enquiry no:----- dated. -----

Type of Supplier (Class-I/Class-II)

Product:-----

Project:.....

Details of location at which local value addition will be made is as follows:

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Authorized Signature M/s-----
(Signature and seal)

Place:.....

Date:.....

***BIDDER'S ELIGIBILITY**

(To be submitted In the company letter head by supplier)

From.

M/s _____

Address: _____

I/we are bidder from _____ (country). We does not belong to any of the below category mentioned.

1. Any of entity/office/workshop of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
2. Any of subsidiary of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.
3. Any of entity/office/workshop of your organisation/incorporation, controlled in a country sharing land border with India, If yes, provide the full address of all such locations.
4. Any of entity whose beneficial owner is situated in a country sharing land border with India, If yes, provide the full name, address of all such locations.
5. Any Indian Agent available, If so, Provide details of address and contacts.
6. Any employee/directors who is/are citizen of country sharing land border with India, If yes, provide the full name, employee code and address of all such locations.
7. Any of consortium/joint venture of your organisation/incorporation, established in a country sharing land border with India, If yes, provide the full address of all such locations.

Meaning of beneficial owner

- 1) In case of a company or limited liability partnership, beneficial owner is the natural person, who, whether acting alone or together, or through one or more judicial person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a) Controlling ownership interest means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
- b) "control" shall include the right to appoint majority of the directors or to control the management rights or shareholder's agreement or voting agreement.

***BIDDER'S ELIGIBILITY**

(To be submitted In the company letter head by supplier)

- 2) In case or a partnership firm the beneficial owner is the natural person (s) who whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of capital or profits of the partnership.
- 3) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more judicial person, has ownership of the entitlement to more than fifteen percent of the property or capital or [profits of such association or body of individual.
- 4) Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
- 5) In case of a trust, the identification of beneficial owner (s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust and any other natural person exercising the ultimate effective control over the trust through a chain of control of ownership.
- 6) An agent is a person employed to do any act for another, or to represent another in dealing with third person.

We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India, we hereby declare that we do not belongs to any such country and are eligible to be considered.

In case, any of information is found to be false, even after bid acceptance, immediate termination may happen and action will be taken as per law.

Format is being filled without altering any of the clause mentioned in the given format**

Dated: _____

Authorised Sign and stamp_____

- 1) OFFER TO BE SUBMITTED THROUGH E-PROCUREMENT PORTAL, <https://bhel.abcpurchase.com/EPROC/>, OF M/S E-PROCUREMENT TECHNOLOGIES LTD, WHO IS OUR EPS SOLUTION PROVIDER.
- 2) BIDDERS ARE REQUESTED TO COMPLY WITH PRE QUALIFICATION REQUIREMENT (TECHNICAL). DOCUMENTARY EVIDENCE SHALL BE ATTACHED ALONG WITH YOUR TECHNO COMMERCIAL BID.
- 3) THIS IS A 2 PART BID TENDERING SYSTEM. THOSE WHO ARE QUALIFYING PART I (TECHNO COMMERCIAL BID) WILL BE CONSIDERED FOR PART-II (PRICE BID).
- 4) PART 1 BID (TECHNO-COMMERCIAL BID)-BIDDERS ARE REQUIRED TO FURNISH COMPLETE COMPLIANCE TO SPECIFICATION ALONG WITH THE ANNEXURE AND DOCUMENTS CALLED IN THE SPECIFICATION. FAILURE TO SUBMIT THE DOCUMENTS AS CALLED IN THE SPECIFICATION WILL BE CONSIDERED AS INCOMPLETE OFFER AND OFFERS OF SUCH BIDDERS MAY BE LIABLE FOR REJECTION.
- 5) PART-2 BID (PRICE BID)-BIDDER SHALL FURNISH THE PRICE DETAILS FOR ALL ENQUIRY LINE ITEMS.
- 6) PRICE PART TO BE IN EPS ONLY AND NOT IN TECHNO COMMERCIAL BID
- 7) BIDDERS ARE REQUESTED TO SUBMIT DULY FILLED ANNEXURE-C, ANNEXURE Q, ANNEXURE-G, ANNEXURE FOR QC REQUIREMENTS FOR INSPECTION CHECK AND INTEGRITY PACT.
- 8) PLS SUBMIT SIGNED, SEAL AFFIXED AND POINTWISE CONFIRMATION TO OUR TECHNICAL SPECIFICATIONS ALONG WITH YOUR TECHNO COMMERCIAL BID.
- 9) PLEASE REF ITEM ANNEXURE FOR DETAILS OF ENQUIRY LINE ITEMS, UOM, QTY, LOT, DELIVERY DATE, DESTINATION ETC.,
- 10) NOTE TO BIDDERS: WHENEVER REQUIRED DURING EVALUATION OF PQR AND TECHNICAL OFFERS/BIDS, BIDDERS ARE REQUESTED TO BE PRESENT AT BHEL BAP RANIPET FOR DISCUSSIONS. FURTHER IN THE EVENT OF ORDERING, DURING APPROVAL OF THE VENDOR DOCUMENTS BY END USERS/CUSTOMERS, VENDOR SHALL ACCOMPANY BHEL REPRESENTATIVE FOR DISCUSSIONS.
- 11) FRP PIPES AND FITTINGS AS PER ATTACHED TECHNICAL SPECIFICATIONS AND SUPERVISION OF E & C OF FRP PIPES FOR A PARTICULAR PROJECT WILL BE CONSIDERED AS ONE SET AND WILL BE PROCURED AS A SET BASIS. EVALUATION WILL BE DONE ON TOTAL COST TO BHEL FOR THE RESPECTIVE SET BASIS. THERE WILL BE FOUR SETS (ONE SET CONSISTS OF FRP PIPES & FITTINGS AND SUPERVISION OF E&C FOR ONE PROJECT): -MOUDA, BARH-I, BARH-II AND NORTH KARANPURA AND EVALUATION OF EACH SET WILL BE DONE SEPARATELY ON TOTAL COST TO BHEL BASIS.
- 12) INSPECTION AND TESTING SHALL BE DONE AS PER APPROVED QUALITY PLAN, DETAILED QUALITY PLAN (INCLUDING RAW MATERIAL CHECK, IN PROCESS INSPECTION) TO BE SUBMITTED FOR BHEL REVIEW AND CUSTOMER APPROVAL. INSPECTION REPORTS OF RAW MATERIAL TC (CHEM & MECH), HYDROSTATIC TEST AND HEAT TREATMENT REPORT SHALL BE SUBMITTED FOR BHEL REVIEW AND RECORD PURPOSE AS MENTIONED IN TENDER ANNEXURE OF QUALITY CONTROL REQUIREMENT FOR INSPECTION CHECK.
- 13) PACKING AND PAINTING SHALL BE AS PER BHEL TECHNICAL SPECIFICATION.
- 14) ALL THE ITEMS WILL BE INSPECTED AT SUPPLIER WORKS AS PER APPROVED DRAWINGS, DATA SHEETS, QUALITY PLAN AND ANY OTHER APPROVED DOCUMENTS.

15) THE EVALUATION CURRENCY FOR THIS TENDER SHALL BE INR.

16) THE BIDDER SHOULD DECLARES THAT THEY WILL NOT ENTER INTO ANY ILLEGAL OR UNDISCLOSED AGREEMENT OR UNDERSTANDING, WHETHER FORMAL OR INFORMAL WITH OTHER BIDDER(S). THIS APPLIES IN PARTICULAR TO PRICES, SPECIFICATIONS, CERTIFICATIONS, SUBSIDIARY CONTRACTS, SUBMISSION OR NON-SUBMISSION OF BIDS OR ANY OTHER ACTIONS TO RESTRICT COMPETITIVENESS OR TO INTRODUCE CARTELIZATION IN THE BIDDING PROCESS.
IN CASE, THE BIDDER IS FOUND HAVING INDULGED IN ABOVE ACTIVITIES, SUITABLE ACTION SHALL BE TAKEN BY BHEL AS PER EXTANT POLICIES/ GUIDELINES.

TERMS AND CONDITIONS FOR INDIGENOUS OFFERS

- a) **Quotations :** Each Tender should be sent in duplicate in a sealed cover. Inner cover should be sealed with tenderer's distinctive seal and superscribed with correct Tender No., item of supply and due date of opening. Tender should not be addressed to any individual's names but only by designation and shall be addressed to
Manager/Purchase, BHARAT HEAVY ELECTRICALS LIMITED, BOLIER AUXILIARIES PLANT, INDIRA GANDHI INDUSTRIAL COMPLEX, RANIPET, VELLORE DISTRICT - 632406, INDIA.
- b) Tenders should be neatly typewritten and should be free from CORRECTION AND ERASURES. Corrections, if any, must be attested. All amount shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.
- c) Price should be net F.O.R. destination inclusive of risk in transit and remain valid for 90 days from the due date.
- d) If any Sales Tax is payable as extra to the quoted price it should be specifically stated in quotation failing which the purchaser will not be liable for payment of Sales Tax. Our TIN No. 33024364741 & CST Number 1141686.
- e) Products with I.S.I certification marks will be preferred.
- f) The applicable rate of excise duty shall be clearly indicated in the quote itself.
- g) The tenderer shall fill up the specification Deviation Disposition Report either NIL or the deviation taken by the tenderer against the Tender specification.
2. **Samples :** Wherever possible samples should be submitted separately whether specifically requested or not, so as to reach the purchase on or before the due date of the enquiry. They should be clearly marked with the Enquiry No. and the date on the outside cover to facilitate identification.
3. **Packing and Marking :** The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.
4. **Terms of Payment :** Payment will be made within 45 days for MSME (Small / Micro) Vendors and 90 days for others after receipt and acceptance of materials at BHEL Stores or receipt of site acknowledgment in case of direct to site items of satisfactory receipt of materials at site. Where required by the purchase, the successful tenderer must send the operation and maintenance manuals, test certificates, drawings, etc., as called for, for the materials ordered. These should be sent immediately after despatch of the materials and a statement to that effect should be made in the invoice. Failure to comply with this provision will result in delay in payment of the bills. Goods despatched either by V.P.P. or by the documents presented through bank will not be accepted unless agreed to by the Purchaser.
The transporter's copy of Excise Invoice should accompany the material. The Original Invoice alongwith other documents shall be (a) routed through bank or (b) directly sent to us as called for in the contract. One set of the Advance copies of the above documents shall be sent to Manager / Finance (Stores Bill section), BHEL, BAP, RANIPET - 6 and one set to Manager / Purchase BHEL, BAP, RANIPET - 6.
5. **Liquidated Damages :** It is clearly understood among the parties to the contract that "Time is the essence of the contract". Therefore, the delivery of the goods specified in the purchase order should be made within the time limit prescribed. Where the seller supplies or despatches the goods, beyond the delivery period specified, the Purchaser will have no obligation to accept the goods, if accepted, liquidated damages at the rate of 1/2% of the value of goods delayed for each week of delay or part thereof will be levied without prejudice to any other relief or compensation due to the purchaser under any other condition of this contract.
6. **Risk Purchase :** Alternatively, the purchaser at his option will be entitled to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in Clause 5 above.
7. **Preferential Delivery :** It should be noted that if a contract is placed on higher tenderer as a result of this invitation to tender in preference to the lowest acceptable offer in consideration to the earlier delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R. destination including all elements of freights, sales tax, duties and other incidentals in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.
8. **MODVAT CREDIT :** If any Excise duty is payable, the chapter head/sub - head reference and the rate of duty should be quoted. If the tenderer is availing MODVAT credit for his input materials, the effect of proforma credit should be passed on the purchaser. Tender under "MODVAT" shall be preferred.
9. **General :** a) The Purchaser reserves the right to split up the tender and place for individual items with different tenderers and also increase the quantity.

TERMS AND CONDITIONS FOR FOREIGN OFFERS

Offer : Offer in ENGLISH LANGUAGE AND IN TRIPPLICATE IN A SEALED COVER superscribing the enquiry number and due date shall be submitted addressed to: THE MANAGER / PURCHASE, BHARAT HEAVY ELECTRICALS LIMITED, BOILER AUXILIARIES PLANT, INDIRA GANDHI INDUSTRIAL COMPLEX, RANIPET - 632 406, TAMIL NADU, INDIA.

Offers should be firm for net FOB / FCA nearest Sea / air port price and C & F Chennai Port Price indicating the shipping specifications and the earliest delivery in the respect of others from overseas suppliers.

Documents :

- (i) Offers should be accompanied by detailed technical literature, catalogue and detailed dimensional drawing in ENGLISH and in DUPLICATE, or otherwise the offers will not be considered.
- (ii) In case overseas suppliers route their accredited selling agents, a letter of authority should be furnished mentioning the name and address of their selling agents, who are authorised to bid, negotiate and conclude a contract on their behalf.

Agency Commission : In respect of offers from overseas suppliers, agency commission, if any, payable to their agents in India shall invariably be shown separately in the proforma invoice and this will be paid by us in India, in Indian Rupees, on satisfactory completion of the contract.

Spare : The tenderer should quote separately for spares that are required for two years trouble free operation. The spares offer should accompany the offer of main equipment, otherwise the quotation will be overlooked.

Validity : The offers for main equipment and spares shall be kept open for acceptance for 90 days (Ninety days) for the date of opening of the tender.

Test Certificates, Operating and Maintenance Manuals : The tenderer shall clearly mention in their offer that Test Certificates and Operating and Manuals, etc., as called for in technical specification, in the required number of copies will be provided at no extra cost. If any amount is payable as extra, the same shall be indicated separately in the offer.

Terms and payment : In the event of an order the purchaser will arrange for an unconfirmed irrevocable letter of credit against presentation of documents. Under, no circumstances confirmed irrevocable letter of credit will be established by the purchaser.

General :

- (i) Preference will be given to suitable indigenous or ex-stock imported offers, failing which imported offers from incoming consignment against the indigenous supplies "Stock and sale Licence" will be accepted, if Stock and sale licence is not available with the indigenous suppliers, the same shall be indicated in their offer.
- (ii) The offer should reach us on or before 14.00 Hours of date of tender opening. The offer will be opened at 14.30 hours on the due date in the presence of the tenderers who may like to be present.
- (iii) **BANK GUARANTEE (if applicable) :** The supplier in the event of an order, should furnish a Bank Guarantee from an approved Bank at no extra cost in a proforma which will be supplied to the supplier, along with the order, for an amount equivalent to 10% of the value of the contract. The Bank Guarantee should remain in full force and effect during the period that would be taken of successful completion of the contract and shall continue to be enforceable till 12 months from the date of receipt of consignment at purchaser's site or 18 months from the date of last shipment at the port of Delivery, whichever is earlier.
- (iv) **INCOTERMS :** The definition for terms shall be as per Incoterms 2010
- (v) **PLEASE QUOTE YOUR RATE FOR ALL THE FOLLOWING CONDITIONS.**
 - (a) FOB on at sight L.C.
 - (b) On C & F Chennai Port India with at sight L.C.
 - (c) Rate on credit basis with rate of interest and period of credit.
 - (d) Rates with suppliers credit.

GUIDELINES ON ACCEPTANCE OF BANK GUARANTEES GIVEN BY VENDORS

1. INTRODUCTION

As a part of the business operations, BHEL is taking Bank Guarantees from its Vendors/contractors/sub-contractors for various purposes. These Bank Guarantees are structured according to the terms of the Tender/ Agreement/ Contract.

2. TYPES OF BANK GUARANTEES TAKEN FROM VENDORS/CONTRACTORS/ SUB-CONTRACTORS BY BHEL

Generally, following types of Bank Guarantees are being taken by BHEL-

i. Bank Guarantees for Earnest Money Deposit

EMD is to be paid by tenderers for securing fulfilment of any obligations in terms of the NIT. In case of total EMD amount is more than Rs.20 lakh, the amount in excess of Rs.20 lakh may be accepted in the form of Bank Guarantee from scheduled bank. The Bank Guarantee in such cases shall be valid for atleast six months.

ii. Bank Guarantee (in lieu of Security Deposit):

Security Deposit is to be collected from the successful Bidder. In addition to other modes of furnishing Security Deposit, Bank Guarantee from Scheduled Banks can be submitted in lieu of Security Deposit by the contractors/sub-contractors/vendors, subject to the compliance with the provisions of Works Policy/Purchase Policy and/or Tender Conditions/ Extant Guidelines

iii. Bank Guarantee against Mobilization Advance/ Initial/ Milestone linked payment:

Normally, no advance payment shall be made to Contractor/ sub-contractors/vendors. Mobilization advance payment in exceptional circumstances shall be interest bearing and secured through Bank Guarantee/s and shall be limited to a maximum of 5% of the Contract Value. The Bank Guarantee shall be for 110% of the value of advance so as to enable recovery of not only principal but also the interest portion.

iv. Performance Bank Guarantee:

These Bank Guarantees may be taken as guarantee for successful performance/ completion of the Contract.

v. Bank Guarantee for Supply of Free Issue Material

BHEL Units sub-contract their jobs to Ancillaries and other fabricators by issuing materials free of cost on returnable basis. Though these fabricators are under contractual obligation to ensure safety of BHEL material and to return the same after carrying out the assigned job, to safeguard BHEL's interest, Bank Guarantee is to be taken in favour of BHEL.

vi Bank Guarantee (For release of Liquidated Damages Amount):

Sometimes, Bank Guarantee against release of Liquidated Damages (LD) is also being obtained by BHEL. In such cases, Bank Guarantee should be valid till the LD issues are settled.

(Compliance with the provisions of Works Policy/Purchase Policy and/or Tender Conditions/ Extant Guidelines may be ensured)

3. STANDARD FORMATS

The following standard format for Bank Guarantees for both Indian and foreign contractors/sub-contractors/vendors which can be used by the Units/Regions are enclosed-

- a. Proforma of Bank Guarantee for Earnest Money Deposit (**Annexure A**)
- b. Proforma of Bank Guarantee in lieu of Security Deposit (**Annexure B**)
- c. Proforma of Bank Guarantee (to secure Advance/ Initial/ Milestone linked payment) (**Annexure C**)
- d. Proforma of Bank Guarantee (Performance) / Contract Execution (**Annexure D**)
- e. Proforma of Bank Guarantee (For release of Liquidated Damages Amount) (**Annexure E**)
- f. Proforma of Bank Guarantee for Supply of Free Issue Material (**Annexure F**)

4. ACCEPTANCE OF BANK GUARANTEES ISSUED BY CONSORTIUM BANKS

List of Banks in BHEL's Consortium of Banks enclosed at **Annexure 1**. For getting Bank Guarantees issued in BHEL's favor preference shall be given to Consortium Banks. As such, Units should insist their contractors/sub-contractors/vendors to submit Bank Guarantees issued by any of the BHEL's Consortium Banks. Therefore, the List of the Consortium Banks along with the Standard Bank Guarantee Format (forming part of these Guidelines) should also form part of the Tender/ Contract document issued by BHEL. (Units may regularly check Corporate Finance- FSD Site (<http://intranet.bhel.in/FSD>) for updated List of Consortium Banks).

5. ACCEPTANCE OF BANK GUARANTEES ISSUED BY NON-CONSORTIUM BANKS

In case any contractors/sub-contractors/vendors expresses difficulty in obtaining Bank Guarantees from any of the BHEL's Consortium Banks and offer to submit Bank Guarantee from any other Nationalized/Public Sector/Private Sector/Foreign Banks, the same may be accepted subject to the following conditions-

A. NETWORTH OF THE BANK ISSUING THE BANK GUARANTEE

- i. In respect of Banks having Net Worth below Rs.500 crores- Exposure Limit is NIL.
- ii. In respect of Banks having Net Worth between Rs.500 to Rs. 2000 crores (As per Latest Annual Report)-The overall exposure limit (at the Unit/Region Level) should not exceed Rs.10 crores for all the non-Consortium Banks put together.
- iii. In respect of Banks having Net Worth above Rs. 2000 crores (As per Latest Annual Report)-The overall exposure limit (at the Unit/Region Level) should not exceed Rs.30 crores for all the non-Consortium Banks put together.

Units/ Regions may insist their contractors/sub-contractors/vendors to provide a Certificate from the concerned Bank along with a Copy of latest Annual Report as supporting documents for Net Worth of the Bank. Additionally, in case required, the figure for Net Worth may be cross checked with the Corporate Office/ Head Office of the concerned Bank. In case, the abovementioned limits have already been exhausted or sufficient balance is not available, the same may be intimated suitably to the contractors/sub-contractors/vendors beforehand.

B. TYPE OF BANKS ISSUING THE BANK GUARANTEE

- i. Bank Guarantee submitted by domestic contractors/sub-contractors/vendors from non-consortium banks-
 1. **Nationalized/ other Public Sector Banks:** Bank Guarantees issued by Nationalized/ other Public Sector Banks (which are not in BHEL's Consortium) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city in which the Unit is located. i.e. Demand can be presented at the Branch located in the town/city in which the Unit is located.
 2. **Private Sector Banks:** Bank Guarantees issued by Private Sector Banks (which are not in BHEL's Consortium) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city in which the Unit is located i.e. Demand can be presented at the Branch located in the town/city in which the Unit is located. However, Units may prefer Nationalized/Public Sector Banks over Private Sector Banks in respect of Bank Guarantees issued by non-consortium banks.

3. **Foreign Banks (BG issued by Branches in India):** Bank Guarantees issued by Foreign Banks (which are not in BHEL's Consortium) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.

4. **Bank Guarantees submitted by Foreign Vendors**

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks which are not in BHEL's Consortium (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor Country's Bank)**
- b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by any **of the Consortium Banks** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). **It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.**
- b.2 In case, **Foreign Vendors intend to provide BG from Overseas Branch** of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
- b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.

C. Co-Operative Banks/ Financial Institutions: Bank Guarantees issued by Co-Operative Banks/ Financial Institutions is **not to be accepted** under all circumstances.

6. **OTHER IMPORTANT ISSUES-**

- i) **BG Text Related Issues-** Bank Guarantees should be clear and precise and should clearly specify the following:
1. The name and address of the applicant i.e Vendor
 2. The name and address of the beneficiary i.e BHEL. It must be ensured that the concerned Unit's name is clearly mentioned in the Bank Guarantee.
 3. The name and address of the guarantor Bank and Branch
 4. A reference number or other information identifying the underlying contract
 5. A reference number or other information identifying the issued guarantee.
 6. The amount or maximum amount payable and the currency in which it is payable
 7. The validity period/date of expiry of the guarantee including Claim period
 8. Claim is payable without demur, protest or proof and merely on demand from BHEL. BG should be unconditional
 9. It should clearly specify the place of Invocation
 10. Presently, there is no legal requirement for getting signatures of Witnesses on the Bank Guarantees. Therefore, BHEL may not insist for the same.
 11. In case of cutting/ overwriting on the Bank Guarantee have been properly authenticated under signature and seal of the executing Bank.

ii) Confirmation of genuineness/authenticity of the Bank Guarantee

Following safeguards in respect of all Bank Guarantees (including Extensions/ Amendments) issued by any of the Banks (including Consortium Banks) are required to be taken ñ

- a. The prescribed format in which BGs are acceptable from the contractors/sub-contractors/vendors may be formed part of the tender document. On receipt of the Original Bank Guarantee by BHEL, the same may be verified verbatim with the Bank Guarantee format provided by BHEL.

- b. **Use of Structured Financial Messaging System (SFMS) for Sending and receiving Bank Guarantee Instruments**

Structured Financial Messaging System (SFMS) has been/ is being implemented by the Banks as per the Ministry of Finance's instructions for Sending and receiving Bank Guarantee and also Inland Letter of Credit Instruments. The SFMS provides a platform for secure communication within the Bank and between Banks. As such, SFMS can prove to be an excellent IT enabled platform for getting secure confirmations from the Banks in respect of Bank Guarantees issued in favor of BHEL. Therefore, Units should insist the contractors/sub-contractors/vendors to provide the Bank Guarantees from Banks which are already SFMS Compliant.

Under SFMS System, a separate advice of the Bank Guarantee (via SFMS IFN 760COV) to be sent to the Advising bank (Beneficiary's Bank) through SFMS by the Issuing Bank (Applicant's Bank), after which the paper Bank Guarantee would become operative. Similar process to be followed for bank guarantee amendment also and separate advice (via SFMS IFN 767COV) is sent to the Advising Bank. It must be ensured that the Issuing and Advising Bank must be SFMS enabled. The details of Advising Bank / Beneficiary Bank (i.e. IFSC Code & Branch address) have to be provided to the BG issuing Bank along with the application for the Application/Request for issuance of Bank Guarantee.

At the time of application for issuance of a Bank Guarantee, the applicant has to furnish Beneficiary's Bank Branch IFSC, Branch Name and address to the Issuing Bank. In this regard, details of those Banks in BHEL's Consortium may be provided to the contractors/sub-contractors/vendors which have waived Advising Charges for advising the Bank Guarantees (where BHEL is beneficiary) through SFMS. Corporate Office will share the details of those Banks from time to time

- c. In case, any contractors/sub-contractors/vendors show their inability to submit the Bank Guarantee from Issuing Bank which is SFMS Compliant, Units may accept paper Bank Guarantee sent to BHEL directly by the issuing Bank under Registered Post (A.D) /Speed Post/Courier/By Hand. However, a declaration as to List of Vendor Banks along with a confirmation that none of their Banks are SFMS compliant may be obtained. Such a requirement shall be clearly specified in the Tender Document/ Contract
- d. In exceptional cases, BGs received through the contractors/sub-contractors/vendors can be accepted. When a Bank Guarantee is directly received through the contractors/sub-contractors/vendors, the Issuing Branch should be requested to immediately send a confirmation that the said Bank Guarantee has been issued by them or send by Registered Post (A.D) an unstamped duplicate copy of the Bank Guarantee directly to BHEL with a Covering Letter. This will enable BHEL to compare the same with the original BG and ensure that the same is in order.
- e. **Further Verification in respect of Bank Guarantees not advised through SFMS**
As an additional measure of abundant precaution, all the Bank Guarantees received (not advised through SFMS) should be independently verified by BHEL and on receipt of the Original Bank Guarantee, the Issuing Bank may be requested to provide-
 1. Immediate Confirmation over email.

2. The possibility of getting confirmation through digitally signed secured emails from issuing Banks may be explored.
3. Thereafter, Banker may be requested to either provide the Confirmation Letter stating that the said Bank Guarantee has been issued by them and signed by their authorized employees in line with the financial authority/ powers given to these employees, or send by Registered Post (A.D) an unstamped duplicate copy of the Bank Guarantee directly to BHEL with a Covering Letter. Further, a confirmation may be obtained from the Bank that Bank Guarantee has been issued on a Stamp Paper of appropriate value.

All efforts shall be made by the Unit to obtain the confirmation as above within 10 days of receipt of the Bank Guarantees by BHEL.

f. **Additional Safe-guards for all Bank Guarantees (including advised through SFMS)**

The following additional safeguards may please be taken care at the Unit/ Region level in respect of all Bank Guarantees (including Extensions/ Amendments) issued by any of the Banks (including Consortium Banks) to ensure protection of BHEL's interest-

1. Stamp paper related ñ

- a. Wherever, e-stamping has been made compulsory, it is to be ensured that the Bank Guarantees has been issued in serially numbered security forms/ e-stamping. Verification of e-stamp can be done on-line <http://www.shcilestamp.com> (STOCK HOLDING CORPORATION OF INDIA LIMITED (SHCIL)).

An e-Stamp can be verified online by clicking on verify e-Stamp certificate and entering the following details-

- 1.State
- 2.Certificate Number (UIN)
3. Stamp Duty Type (Description of Document)
4. Certificate Issue Date

- b. The BG Should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG is executed, whichever is higher.

- c. To ensure that the Stamp Paper is issued in the name of the Issuing Bank or in the name of the Contractor/sub-contractor/ vendor.

2. To ensure that the Bank Guarantees has been issued in serially numbered security forms.
3. As per RBI Guidelines, all Bank guarantees issued for Rs.50,000/- and above should be signed by two officials jointly. Further, the name, designation and code numbers of the officer/officers signing the guarantees should be mentioned under the signature(s) of officials signing the bank guarantee.

- g. **Authorized Officials for dealing with Banks in respect of Bank Guarantees-** Units/Regions to assign responsibility for verification, timely renewal and timely encashment/ invocation of the Bank Guarantees to one or more Finance Executives depending upon the volume of work at the Unit/Region. **All correspondence with the Banks for matters related to Bank Guarantees are required to be carried out by Finance executives only**

iii) **Other issues**

a. **Addition of jurisdiction Clause in the Bank Guarantee-**

If required, Units/ Region may include the following jurisdiction Clause for dispute resolution at local level

" Any claim or dispute arising under the terms of this-Guarantee shall be-subject to the exclusive jurisdiction of-the court at _____ (Unit or HQ Location for ex. in case of PSWR - "Nagpur" /PSNR- Delhi, PSER- Kolkata/ PSSR0-Chennai) only.

However, it may be noted that the exclusive jurisdiction can form a part of the Bank Guarantee formats but it has to be seen that the Court upon whom the exclusive jurisdiction is being conferred must otherwise have jurisdiction for this clause to be effective under law.

iv) Safe Custody of Bank Guarantees-

Following steps may be taken by the concerned Finance Officials to ensure safety of Bank Guarantees-

1. Safe custody of the Bank Guarantees shall be the responsibility of Finance executive(s)
2. On receipt of the Bank Guarantee, the complete details of the Bank Guarantee should be entered in BG Register (physical register and also in separate file in soft form) **(As per Format at Annexure 2)** maintained centrally at the Unit/ Region/site. The data entered in the Register should be duly verified by the concerned official/officials.
3. Periodic physical verification and reconciliation of the Paper Bank Guarantees should be done with the BG Register.
4. Original Bank Guarantees including Extensions must be kept in safe Custody in **“Fire Proof”** Cabinets/ Cash Chests.

v) Long Duration Bank Guarantees

In case of Long Duration Bank Guarantees, it is advisable that only Bank Guarantees with validity for full period of the contract may be accepted by BHEL.

vi) Expiry Period and Claim Period

It may be ensured that the Expiry/Validity date and Claim date mentioned in the Bank Guarantee is in line with the Contract with the vendor.

Further, there should be an adequate gap, preferably 3-6 months, in the Expiry date and Claim Period so as to ensure that sufficient time is available with BHEL to submit Invocation Claim, if required under the Bank Guarantee. BHEL can claim the amount from the bank for the act which has happened before the validity (expiry) date but within the claim period. However, it is advisable that the Invocation Claim may be submitted within the Expiry date.

In this regard, it is to be noted that unless the Bank receives a written claim or demand on or before the Expiry date (in case there is no separate claim date) or Claim date (in case both Expiry date and claim date are included in the text) mentioned in the Bank Guarantee, all the rights of BHEL under the Bank Guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under the said Bank Guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

vii) Extension of the Bank Guarantee-

In case of non-fulfillment or non-completion of the Contractual Commitments by the concerned contractor/sub-contractor/vendor, action for extension of the validity of the Bank Guarantee should be taken atleast 60 days before the Expiry date and in accordance with the terms and conditions of the Bank Guarantee. Commercial/Executing Agency/Construction Manager of the Unit/Region/site concerned should intimate the custodian i.e. Unit's Finance of the Bank Guarantees sufficiently in advance for the action to be taken for Extension of the Bank Guarantee. In case, no response is received by Unit's Finance 60 days before the Expiry Date from the concerned Commercial/Executing Agency/Construction Manager, the concerned Finance Official may take action for extension to ensure that BHEL's interest is safeguarded.

In this regard following points are required to be ensured-

- a. Request for Extension of the validity is to be lodged atleast 60 days before the Expiry Date mentioned in the Bank Guarantee.
- b. The letter seeking extension should be addressed to the contractor/sub-contractor/vendor as the extension is normally done by the Bank on the request of the Applicant (Contractor/sub-contractor/Vendor). The same should be sent through Registered Post with A.D/ Speed Post. Courier/By hand with a copy to the Issuing Bank with a request to invoke Bank Guarantee in case the same is not extended before expiry date and this should be treated as a Provisional Claim.
- c. Regular follow-up with the contractor/sub-contractor/vendor through email/FAX for extension of BG need to be ensured.

- d. In case the extension of the validity is not done 15 days before the expiry date, immediate action for Invocation of the Bank Guarantee should be taken by sending Final Invocation Claim to the Issuing Bank at the place of issue or such other place as is specified in the guarantee with a copy to the contractor/sub-contractor/vendor. All provisions in respect of Invocation Claim as per **Para viii** is required to be followed

viii) Invocation Claim

In event of Breach by the contractor/sub-contractor/vendor (s) of the terms and conditions of said Contract or failure of the contractor/sub-contractor/vendor to perform the said Contract for which the Bank Guarantee has been given or in case of failure of the contractor/sub-contractor/vendor to extend the validity of the Bank Guarantee (as per Para vii), the concerned Unit shall take immediate action for lodgment of Claim with the Issuing Bank's Branch for Invocation of Bank Guarantees. Commercial/Executing Agency/Construction Manager of the Unit/Region/site concerned should intimate the custodian of the Bank Guarantees sufficiently in advance for the action to be taken for invocation of the Bank Guarantee.

In this regard, following points may please be ensured-

- a. Invocation Claim is to be lodged well before the Expiry date (in case there is no separate claim date) or Claim date (in case both Validity date and claim date are included in the text) mentioned in the Bank Guarantee.
- b. Invocation Claim is to be typed on BHEL Letter Head with full Postal Address of BHEL's Unit. It should also contain contact details of BHEL's dealing official.
- c. Invocation Claim is to be sent at the place of issue or such other place as is specified in the guarantee. Correctness of Issuing Bank's Address may be ensured before sending the Invocation Claim.
- d. The scanned copy of the Invocation letter may be sent immediately through email followed by sending the Invocation letter by Speed Post/ Registered Post (with Acknowledgement Card)/ By Hand (to be got personally acknowledged) to ensure timely receipt by the Bank's Branch mentioned in the Bank Guarantee. The Acknowledgement/Receipts should be positively obtained and the same should be preserved as evidence of sending Invocation Claim well in time. Confirmation of receipt of the Invocation Letter may be obtained through email or over phone.
- e. Invocation letter should clearly specify the Bank Guarantee Number.
- f. A demand may be made for an amount less than the full amount available (partial demand). Further, more than one demand (multiple demands) upto the total value of Bank Guarantee may be made by BHEL within the validity period. **However, it may be ensured that demand should not be made for more than the amount available under the guarantee as the Bank will consider it a non-complying demand and may not act on the same.**
- g. **It may be noted that Banks, as per the regulations, are required to promptly honour the guarantees issued by them as and when Bank Guarantees are invoked in accordance with the terms and conditions of the guarantee deeds. Payment should be made to the beneficiaries without delay and demur.**

Under a Bank Guarantee, the Bank undertakes to pay to the beneficiary, any money so demanded notwithstanding any dispute or disputes raised by the of the contractor/sub-contractor/vendor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto and the Banks liability is absolute and unequivocal. As such, the Banks cannot delay and deny honoring the invocation Claim.

Therefore, all steps should be taken to ensure timely payment by the Bank.

- h. In case, the Bank does not act and pay within three working days from the date of presentation of Final Claim/ Demand, the matter may be immediately escalated to the Regional Office of that Bank's Branch and thereafter to their Head Office under intimation to Corporate Office. In case of no response, matter may be referred to Ombudsman, RBI etc.

- i. After one month, if the amount is still not paid, unit may consider filling a legal case against the bank **in consultation with the Corporate Law Department.**

(Formats for Extension Letter /Invocation Claims are as per Format at Annexure G (1ST Letter), Annexure H (Reminder Letter), Annexure I (Final Claim/Invocation Letter) and Annexure J (Invocation Letter))

ix) Return of Bank Guarantee

a. After Expiry Period

The Expired Bank Guarantees which are not further required by BHEL due to fulfillment of the Contractual Commitments by the concerned of the contractor/sub-contractor/vendor may be returned to the concerned Bank under intimation to the Vendor/Contractor within 3 months from the date of expiry after ensuring completion of all the activities. The same is to be done on the specific recommendation/ approval of Commercial/Executing Agency/Construction Manager of the Unit/Region/site concerned.

b. Within Validity Period

In case, any Bank Guarantee is to be returned by BHEL due to fulfillment of the Contractual Commitments by the concerned of the contractor/sub-contractor/vendor within its validity period, the same has to be done on the specific recommendation/ approval of Commercial/Executing Agency/Construction Manager of the Unit/Region/site concerned after performing due-diligence.

x) Use of software

For timely and automatic alert in respect of Bank Guarantees due for expiration, use of software application is advisable. In case, the software is not available at a Unit, the same may be developed in a time bound manner.

PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY
(On non-Judicial paper of appropriate value)

Bank Guarantee No.....

Date.....

To

(Employer's Name and Address)
.....

Dear Sirs,

In accordance with the terms and conditions of Invitation for Bids/Notice Inviting Tender No.....1(Tender Conditions), M/s. having its registered office at2 (hereinafter referred to as the 'Tenderer'), is submitting its bid for the work of.....3 invited by4.(name of the Employer) through its Unit at (

The Tender Conditions provide that the Tenderer shall pay a sum of Rs as Earnest Money Deposit in the form therein mentioned. The form of payment of Earnest Money Deposit includes Bank Guarantee executed by a Scheduled Bank.

In lieu of the stipulations contained in the aforesaid Tender Conditions that an irrevocable and unconditional Bank Guarantee against Earnest Money Deposit for an amount of5 is required to be submitted by the Tenderer as a condition precedent for participation in the said Tender and the Tenderer having approached us for giving the said Guarantee,

we, the[Name & address of the Bank] having our Registered Office at(hereinafter referred to as the Bank) being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer without any demur, merely on your first demand any sum or sums of Rs. 5(in words Rupees.....) without any reservation, protest, and recourse and without the beneficiary needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Vendors in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Tenderer shall have no claim against us for making such payment.

We, _____ Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Tender or to extend the time of submission of from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Tenderer and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Tenderer or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Tenderer or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Tenderer and notwithstanding any security or other guarantee that the Employer may have in relation to the Tenderer's liabilities.

This Guarantee shall be irrevocable and shall remain in force upto and including _____ and shall be extended from time to time for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Tenderer but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the _____ we shall be discharged from all liabilities under this Guarantee.

We, _____ Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed _____
- b) This Guarantee shall be valid up to _____
- c) Unless the Bank is served a written claim or demand on or before _____⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of

(Name of the Bank)

Date _____

Place of Issue _____

¹ Details of the Invitation to Bid/Notice Inviting Tender

² Name and Address of the Tenderer

³ Details of the Work

⁴ Name of the Employer

⁵ BG Amount in words and Figures

⁶ Validity Date

⁷ Date of Expiry of Claim Period

Notes:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

PROFORMA OF BANK GUARANTEE (in lieu of SECURITY DEPOSIT)

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at _____ (name of the Unit) having agreed to exempt (Name of the Vendor / Contractor / Vendors) with its registered office at _____² (hereinafter called the said "Contractor" which term includes vendors), from demand under the terms and conditions of the Contract reference No. _____ dated _____³ valued at Rs. _____⁴ (Rupees -----)⁴ (hereinafter called the said Contract), of Security Deposit for the due fulfilment by the said Contractor of the terms and conditions contained in the said Contract, on production of a Bank Guarantee for Rs. _____⁵ (Rupees _____ only),

we _____ (indicate the name and address of the Bank) having its Head Office at _____ (address of the head Office) (hereinafter referred to as the Bank), , at the request of _____ [Contractor(s)], being the Guarantor under this Guarantee, do hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer, , an amount not exceeding Rs. _____ without any demur, immediately on demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand

Any such demand made on the bank, shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal or Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this guarantee shall be a valid discharge of our liability for payment hereunder and the Contractor(s) shall have no claim against us for making such payment.

We, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied & the Employer certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said contractor(s) or acceptance of the final bill or discharge of this guarantee by the Employer, whichever is earlier. This guarantee shall initially remain in force upto and including _____⁶ and shall be extended from time to time for such period as may be desired by the Employer. Unless a demand or claim under this guarantee

is made on us in writing on or before the _____⁷, we shall be discharged from all the liability under this guarantee thereafter.

We, _____ (indicate the name of the Bank) further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

We, _____ BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed _____⁵
- b) This Guarantee shall be valid up to _____⁶
- c) Unless the Bank is served a written claim or demand on or before _____⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

Date _____ Day of _____
for _____ (indicate the name of the Bank) _____

(Signature of Authorised signatory)

¹ ADDRESS OF THE EMPLOYER. I.e Bharat Heavy Electricals Limited

² ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER .

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

BANK GUARANTEE FOR ADVANCE

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at _____ (name of the Unit) having awarded to _____² (Name of the Vendor / Contractor / Supplier), with its registered office at _____² (hereinafter called "the Vendor/Contractor/Supplier" which expression shall include its successors and permitted assigns) a contract Ref No _____ dated _____³ valued at Rs _____ (Rupees -----) / FC _____ (in words _____) for _____⁴ (hereinafter called the 'Contract')

AND WHEREAS the Employer has agreed to advance to the Vendor/Contractor/Supplier, a sum of Rs _____ (Rupees _____ only), equivalent to _____% of the said value of the Contract (hereinafter called "the said Advance"), upon the condition, that the said Advance shall be secured by a guarantee for Rs/ FC ----- (Rupees/ FC -----)⁵ from a Bank as hereinafter appearing.

We, _____, (hereinafter referred to as the Bank), having registered/Head office at _____ and a branch at _____ being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount but not exceeding Rs/FC ----- (Rupees/FC -----) without any demur, merely on your first demand and without any reservation, protest and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Vendor/Contractor/supplier shall have no claim against us for making such payment.

We, the _____ Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We _____ Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor/Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor/Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor/Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor/Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor/Contractor/Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor/Contractor/Supplier's liabilities.

This Guarantee shall remain in force upto and including _____⁶ and shall be extended from time to time on the request of the Employer for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor/Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the _____⁷ we shall be discharged from all liabilities under this Guarantee.

We, _____ BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed _____⁵
- b) This Guarantee shall be valid up to _____⁶
- c) Unless the Bank is served a written claim or demand on or before _____⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Date _____.

Place of Issue _____.

¹ NAME AND ADDRESS OF THE EMPLOYER. i.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF VENDOR /CONTRACTOR / SUPPLIER

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE AND PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.
4. In exceptional circumstances where advance payment is to be made to a vendor and the Unit has contractually agreed with the Contractor/ Vendor for periodic reduction in Advance Bank Guarantee, if required the following clause may be added in the BG Text-

ôThe liability under this Guarantee shall stand reduced proportionally on periodic basis, in accordance with the value of effected shipment/dispatches/services completed on written confirmation by BHEL.ô

5. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter-Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter-Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at _____ (name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at _____² hereinafter referred to as the 'Vendor / Contractor / Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No _____ dated _____³ valued at Rs _____⁴ (Rupees -----)/FC _____ (in words _____) for _____⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to _____ % (_____ . Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we, _____, (hereinafter referred to as the Bank), having registered/Head office at _____ and inter alia a branch at _____ being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -- -----⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We the _____ bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till

all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We, _____ BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier 's liabilities.

This Guarantee shall remain in force upto and including _____⁷ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the _____⁸ we shall be discharged from all liabilities under this guarantee thereafter.

We, _____ BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed _____⁶
- b) This Guarantee shall be valid up to _____⁷
- c) Unless the Bank is served a written claim or demand on or before _____⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated _____.

Place of Issue _____.

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE

⁵ PROJECT/SUPPLY DETAILS

⁶ BG AMOUNT IN FIGURES AND WORDS

⁷ VALIDITY DATE

⁸ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

BANK GUARANTEE FOR RELEASE OF AMOUNTS WITHHELD/LIQUIDATED DAMAGES AMOUNT

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at _____ (name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) incorporated under the _____ having its registered office at _____² (hereinafter referred to as the 'Vendor/Contractor/Supplier' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No _____ dated _____³ valued at Rs _____ (Rupees _____)/FC _____ (in words _____) for _____⁴ (hereinafter called the 'Contract')

And Whereas the Vendor/Contractor/Supplier as per Contract should have completed the work/ supplies under the contract by _____ (date)

And Whereas as per terms and conditions of the Contract, the Employer is entitled to levy Liquidated Damages (LD) for delays/ shortfall in performance and the Employer has withheld an amount of Rs _____ by way of LD as per the Contract.

Now, on the request of the Vendor/Contractor/Supplier the Employer having agreed to release the amount of Rs _____ withheld from the Vendor's/Contractor's/Supplier's invoices as Liquidated damages under the terms and conditions of the Contract on production of a Bank Guarantee for Rs. _____ (Rupees _____ only).⁵

We, _____, (hereinafter referred to as the Bank), having registered/Head office at _____ and inter alia a branch at _____ being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount of Rs _____ (Rupees _____) without any demur, merely on a demand from the Employer and without any reservation, protest and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Supplier on any suit or proceeding pending before any Court or Tribunal Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor/Contractor/Supplier shall have no claim against us for making such payment.

We the _____ bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/closure of the Contract/settlement of the issues regarding imposition of liquidated damages and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We _____ BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor/Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor/Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor/Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor/Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor/Contractor/Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor/Contractor/Supplier's liabilities.

This Guarantee shall remain in force upto and including _____⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor/Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the _____⁷ we shall be discharged from all liabilities under this guarantee thereafter.

We, _____ BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed _____⁵
- b) This Guarantee shall be valid up to _____⁶
- c) Unless the Bank is served a written claim or demand on or before _____⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated _____.

Place of Issue _____.

¹ NAME AND ADDRESS OF THE EMPLOYER I.e Bharat Heavy Electricals Limited.

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE AND PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

BANK GUARANTEE FOR SUPPLY FREE ISSUE MATERIAL

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at _____ (name of the Unit) having awarded to _____² (Name of the Vendor / Contractor / Supplier), with its registered office at _____² (hereinafter called "the Vendor/Contractor/Supplier" which expression shall include its successors and permitted assigns) a contract Ref No _____ dated _____³ valued at Rs _____ (Rupees -----) / FC _____ (in words _____) for _____⁴ (hereinafter called the 'Contract')

AND WHEREAS the Employer having agreed as per the terms and conditions of the Contract to supply free issue material costing Rs. _____ for the manufacture/fabrication of the equipment at the 'Contractor/Supplier/Fabricator's' site on furnishing of a Bank Guarantee for Rs./FC _____ (Rupees/FC _____) in the manner hereinafter specified for the due safeguard of the free issue material, we, _____, (hereinafter referred to as the Bank), having registered/Head office at _____ and inter alia a branch at _____ being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount but not exceeding Rs/FC _____ (Rupees/FC -----) without any demur, merely on a demand from the Employer and without any reservation, protest and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the 'Contractor/Supplier/Fabricator' in any suit or proceeding pending before any Court or Tribunal or Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the 'Contractor/Supplier/Fabricator' shall have no claim against us for making such payment.

We the _____ Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and till the reconciliation of the free issue material has been carried out and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We, _____ Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said 'Contractor/Supplier/Fabricator' from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier/Fabricator and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said 'Contractor/Supplier/Fabricator' or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said 'Contractor/Supplier/Fabricator' or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor/Supplier/ Fabricator and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's/Supplier's/ Fabricator's liabilities.

This Guarantee shall remain in force upto and including _____⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/ Supplier/ Fabricator but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the _____⁷ we shall be discharged from all liabilities under this guarantee thereafter.

We, _____ BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed _____⁵
- b) This Guarantee shall be valid up to _____⁶
- c) Unless the Bank is served a written claim or demand on or before _____⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated _____.

Place of Issue _____.

¹ NAME AND ADDRESS OF THE EMPLOYER. i.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE CONTRACTOR / SUPPLIER/ FABRICATOR .

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS AND CONTRACT VALUE

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
- b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 **In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank** (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

Format of Letter for Extension/ Invocation of Bank Guarantees

Ref No

Dated

To

The Branch Manager

(Mention complete correct postal address of the BG issuing Bank Branch)

Dear Sir,

Sub: Bank Guarantee No dated issued by your bank valid upto for Rs
 in favor of M/s. BHEL. (Units name) on behalf of. (name of contractor/ vendor/ supplier etc.)

We refer to the above mentioned Bank Guarantee (BG) issued by your bank at the request of (Name of the contractor/ vendor/ supplier etc) towards.... (Nature of the BG issued) bank guarantee in favour of M/s. BHEL. (Unit's name) expiring on (validity date and the claim period). The said BG has to be kept valid till the full settlement/performance of the contractual terms and conditions entered into with (name of the contractor/ vendor/ supplier etc.). We have requested..... (name of the contractor/ vendor/ supplier etc.) to get the above said BG extended for a period of Months i.e. upto (dd/mrn/yy).

In case the validity period of the said BG is not extended within 15 days before the expiry date i.e. and received by us on or before ... or in case the bank is not in a position to extend the validity period of the BG for whatever reasons, then this communication shall be treated as **invocation** of the above said BG and also as our demand on you to pay us the amount of Rs (Rupees .. only) by means of Demand Draft/Banker's Cheque payable at (name of place)/ through RTGS (as per details attached) being the proceeds of the BG immediately on the date of expiry of the said BG, without any further intimation to you.

Please note that unless we revoke the claim under the above said BG in writing, your bank is liable to make the payment of the full amount of the BG forthwith to BHEL on

In the event this Bank Guarantee is extended for a period of at leastëë months and such letter of extension, duly executed on non-judicial Stamp Paper of requisite value, is received by us, this claim may be treated as withdrawn. It is requested that the extended Bank Guarantee should be send directly to BHEL.

This without prejudice to our rights under the guarantee and under the law.

Kindly acknowledge receipt of this letter.

Yours sincerely

FOR & ON BEHALF OF BHEL

(Authorised Signatory)

Copy forwarded to: (should be known to the bank).

The Officer concerned (name)

MIS

(Name of the contractor /vendor/ supplier etc. with Complete Postal Address).

Please arrange to extend the BG upto..... as advised by BHEL in our letter dated

(Separate letter also to be sent to the contractor /vendor/ supplier etc. well in advance) latest by..... under intimation to us, failing which this letter be treated as notice of invocation).

Notes:

- 1) To be typed on BHEL's Letter Head with full Postal Address of BHEL's Unit.
- 2) To be sent to the bank by Registered Post with Acknowledgement Due / scanned copy through email as well as through fax / Courier/ by hand (to be personally acknowledged) 60Days prior to the date of expiry of the BG in question and/or in accordance with the terms and conditions of the Guarantee deed.
- 3) Bank's acknowledgement of receipt of Extension/Claim letter should be positively obtained and the same should be preserved.

Format of Reminder letter to be sent to BG issuing bank atleast 15 days before expiry date of the BG in case the extended BG is not received in terms of contract from the issuing bank.

Ref No

Dated

To, .
The Branch Manager
(Mention complete correct postal address of the BG issuing Bank/branch)

Dear Sir,

Sub: Bank Guarantee No Dated issued by your bank valid upto for
Rs in favour of M/s. BHEL (unit's name) on behalf of (name
of contractor/ vendor/supplier etc.)

Please refer to our earlier letter No Dated requesting you to extend the above
Bank Guarantee (BG) for a period of Month(s) i.e. upto (date).

Till date we have neither received any advice from your bank nor received the extended BG in original as
requested by us in our letter dated (date).

In case the said BG is not extended as requested by us in our letter dated , this letter shall also be treated
as **demand for invocation** of the said BG. The amount of Rs (Rupees only) be paid to
BHEL positively on the date of expiry of the BG itself by way of Demand Draft/ Bankers cheque payable at
(name of place).

This without prejudice to our rights under the guarantee and under the law.

Kindly acknowledge receipt of this letter.

Yours sincerely

For & on behalf of BHEL
(Authorised Signatory)

Copy forwarded to:

The Officer concerned(name)

M/s

(Name of the contractor/ vendor/ supplier etc. with complete postal address) for information and necessary
action

Notes:

- (1) To be typed in BHEL Letter Head with full Postal Address of BHEL's Unit.
- (2) To be sent to the bank by Registered Post with Acknowledgement Due/ scanned copy through email as well as through fax / Courier/ by hand (to be personally acknowledged) atleast 15 days prior to the date of expiry of the BG in question and/ or in accordance with the terms and conditions of the guarantee deed.
- (3) Bank's acknowledgement of receipt of Extension/Claim letter should be positively obtained and the same should be preserved.

Format of third and final invocation letter to be sent to BG Issuing Bank five days before the of expiry of the BG, in case BG is not extended in terms of contract from by issuing bank.

Ref No

Dated

To,
The Branch Manager
(Mention complete correct postal address of the BG issuing Bank/branch)

Dear Sir,

Sub: Invocation of Bank Guarantee No Dated issued by your bank valid upto for Rs
in favour of M/s. BHEL. (unit's name) on behalf of (name of contractor/ Vendor/ supplier etc.)

Please refer to our earlier letter No Dated and letter dated wherein it was requested to extend the above said Bank Guarantee (BG) failing which to pay BHEL the amount of the BG by way of a Demand Draft/ Bankers Cheque.

Your bank has failed to renew the above BG till today as requested by BHEL. As already informed to you that the Contractor has failed to fulfill/ perform the said contract and in view of the same, we hereby demand and lodge our claim against the abovementioned Bank Guarantee for the payment of Rs (Rupees only). Please arrange to pay the amount by means of a Demand Draft/ Bankers' Cheque/ Through RTGS (as per details attached) today itself.

You are requested to immediately meet your obligation under the Bank Guarantee and make the payment.

Kindly acknowledge receipt of this letter.

Yours sincerely,
For & on behalf of BHEL
(Authorised Signatory)

Note:

- 1) To be typed in BHEL Letter Head with full Postal Address of BHEL unit.
- 2) To be sent to the bank by Registered Post with Acknowledgement Due/ scanned copy through email as well as through fax / Courier/ by hand (to be personally acknowledged) atleast 5 days prior to the date of expiry of the BG in question and/ or in accordance with the terms and conditions of the guarantee deed.
- 3) Bank's acknowledgement of receipt of claim letter should be obtained positively and the same should be kept on records.
- 4) This letter will also be taken by an authorized BHEL's official to the bank and acknowledgement is to be received positively. The matter is required to be followed up by the concerned official and efforts to be made for getting the payment immediately.

Format of Letter for Invocation of Bank Guarantees

Ref No
 Dated

To
 The Branch Manager
(Mention complete correct postal address of the BG issuing Bank Branch)

Dear Sir,

Sub: Bank Guarantee No dated issued by your bank valid upto for Rs in favor of M/s. BHEL. (Units name) on behalf of. (name of contractor/ vendor/ supplier etc.)

We refer to the above mentioned Bank Guarantee (BG) issued by your bank at the request of (Name of the contractor/ vendor/ supplier etc) towards.... (Nature of the BG issued) Bank Guarantee in favour of M/s. BHEL. (Unit's name) expiring on (date including the claim period).

We do hereby lodge our claim/ demand in terms of the Bank Guarantee and call upon you to immediately pay us Rsë ë ë ë ë ë (Rupeesë ë ë ë .only) by means of Demand Draft/Banker's Cheque payable at (name of place)/ Through RTGS (as per details attached)

Kindly acknowledge receipt of this letter.

Yours sincerely

FOR & ON BEHALF OF BHEL
 (Authorised Signatory)

Notes:

- 1) To be typed in BHEL Letter Head with full Postal Address of BHEL's Unit.
- 2) To be sent to the bank by Registered Post with Acknowledgement Due/ scanned copy through email as well as through fax / Courier/ by hand (to be personally acknowledged) sufficiently in advance before the date of expiry of the BG in question and/ or in accordance with the terms and conditions of the Guarantee Deed.
- 3) Bank's acknowledgement of receipt Claim letter should be positively obtained and the same should be preserved.
- 4) This letter will also be taken by an authorized BHEL's official to the bank and acknowledgement is to be received positively. The matter is required to be followed up by the concerned official and efforts to be made for getting the payment immediately.

List of Consortium Banks (As on 22.02.2017)			
	Nationalised Banks		Nationalised Banks
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign banks
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	J P Morgan
10	Punjab National Bank		
11	Punjab & Sindh Bank		Private banks
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank

ANNEXURE 2**BANK GUARANTEE REGISTER**

SL.N O	DATE OF RECEIPT	NAME OF THE BANK ALONG WITH BRANCH	ISSUE DATE	VENDOR/ CONTRACTOR	PURCHASE ORDER/CONTRACT AGREEMENT/WOR K ORDER NO	AMOUNT OF BANK GUARANTEE TO BE FURNISHED AS PER TERMS AND CONDITIONS	AMOUNT OF BANK GUARANTEE FURNISHED	ORIGINAL VALIDITY	EXTENDED PERIOD OF VALIDITY	ORIGINAL CLAIM DATE	EXTENDED PERIOD OF CLAIM DATE	DATE OF RETUR N	PARTICUL ARS OF LETTER NO. WITH WHICH RETURNE D
1	2	3	5	6	7	8	9	10	11	12	13	14	15

INTEGRITY PACT**Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions:

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to

demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors.
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/ lodged during currency of IP, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal

(Office Seal)

Place-----

Date-----

Witness:_____

(Name & Address) _____

For & On behalf of the Bidder/

Contractor

(Office Seal)

Witness:_____

(Name & Address) _____

(To be executed on Non-judicial Stamp Paper for an appropriate value.
To be stamped as an agreement)

(For Suppliers on Unit's/Division's PMD)

Framework Confidentiality Agreement cum Undertaking

This Agreement made on this the _____ day of (month) _____ 20__ (“Effective Date”) by and between

M/s BHARAT HEAVY ELECTRICALS LIMITED, having registered office at “BHEL House”, Siri Fort, New Delhi – 110049 (India), acting through its _____ Unit (hereinafter may be referred to as “BHEL” or “the Company”).

And

M/s _____ (address) _____
represented by authorized representative Sri _____ (herein after referred to as the “Supplier”).

The Supplier and the Company may, unless the context otherwise requires, hereinafter be collectively referred to as “Parties” or singly as the “Party”.

RECITALS

Whereas, BHEL is engaged in the design, engineering, manufacturing, construction, testing, commissioning and servicing of a wide range of products, systems and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable energy, Oil & Gas and Defence and providing associated services to varied customers in relation to which BHEL/its affiliates own valuable information of a secret and confidential nature.

Whereas the Company may, in connection with Contract(s) (as defined hereunder) placed or to be placed upon the Supplier, or otherwise, from time to time, make available, Technical Information as is defined hereunder.

And Whereas BHEL is willing to provide such Technical Information to the Supplier from time to time and the Supplier understands and acknowledges that such Technical Information is valuable for the Company and as such is willing to protect confidentiality of such information, subject to the terms and conditions set out hereunder.

Now therefore, in view of the foregoing premises and in consideration of the mutual covenants and agreements hereinafter set forth, the Parties agree as under:

1. Definitions:

Unless the context so requires, in this Agreement, the following terms will bear the meaning ascribed to the said term in this clause.

- A. **“Contract”** means the Contract entered into with a Supplier and includes a Purchase Order, or a Work Order for procurement of any goods or for provision of any services.
- B. **“Effective Date”** means the date of this Agreement as mentioned in the preamble of this Agreement.

- C. **“Supplier”** includes a Contractor or a Vendor of the Company whether for supplying of goods or for providing any services under a Contract or both.
 - D. **“Technical Information”** includes Drawings, and/or Product Standards and/or Specifications and/or Corporate / Plant Specifications and/or Technological Process Sheets and/or Technical Data Sheets and/or Jigs & Fixtures and/or Pattern & Dies and/or Special Gauges and/or Tools etc. belonging to or wherein the Company has acquired from a third party a right of user and includes any improvement thereto from time to time whether carried out by the Company or by the Supplier.
 - E. **“Intended Purpose”** means the purpose for which the Technical Information is provided to the Supplier under or in connection with a Contract.
 - F. **“Improvement”** includes any modification made to, or adaptation of, the Technical Information which enhances or is calculated to enhance the performance (whether in terms of effectiveness or in terms of efficiency or both) of the product and/or the service to be provided by the Supplier under a Contract.
2. This Agreement shall come into force/deemed to have come into force, as the case may be, on the Effective Date; or, on the first date when the Technical Information or any part thereof is provided by BHEL to the Supplier; whichever is earlier.
3. **Agreement deemed to be incorporated in each Contract:** Unless and to the extent otherwise stipulated in the Contract, the conditions of this Agreement are deemed to be incorporated in all Contracts which may be entered into between the Company and the Supplier. Further, unless otherwise stipulated, the obligations under this Agreement are and will be independent of the obligations under the Contracts and such obligations of the Supplier hereunder will remain of full effect and validity notwithstanding that the period of validity of the Contracts has expired by efflux of time stipulated therein; or, the contract has been discharged by performance or breach; or, the termination of the Contracts for any reason whatsoever.
4. **Ownership:**
- 4.1 The Company may, from time to time, make available to the Supplier, Technical Information on a non-exclusive basis by way of loan.
- 4.2 The Supplier acknowledges and agrees that all Technical Information and copies thereof that are or may be provided by the Company to the Supplier, are and shall remain the property of BHEL or that of the concerned entity from whom BHEL has obtained the Technical Information and such Technical Information are and shall constitute trade secrets of the BHEL. Nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any patent, copyright or design or any other intellectual property rights of whatsoever description that subsists or may hereinafter exist in the Technical Information. Furthermore, nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any license or rights of use of such patent,

Annexure-G

copyright or design or any other intellectual property rights of whatsoever description which may now or hereafter exist in the Technical Information except for use of the Technical Information strictly in accordance with this Agreement and the Contract and/or as directed in writing by the Company, solely for the Intended Purpose under the Contract.

- 4.3 Neither Party is obligated by or under this Agreement to purchase from or provide to the other Party any service or product and that any such purchase/sale of any product and/or service by one Party to the other Party will be governed by the Contract if any, that may be entered into by and between the Company and the Supplier.
- 4.4 The Supplier is/has been made well aware and acknowledges that the Technical Information being/which may be shared with it by the Company has been either generated by the Company by incurring huge investment and cost or obtained from foreign collaborators under Technical Collaboration Agreement (TCA) with stringent confidentiality conditions.
- 4.5 The Supplier agrees and undertakes to adhere to confidentiality requirements as applicable to BHEL under a TCA and also ensure that the confidentiality requirements are adhered to by all its concerned employees or sub-contractors/suppliers (where permitted to be engaged by BHEL). Any damages, losses, expenses of any description whatsoever, arising out of or in connection with a breach of the confidentiality requirements under a TCA owing to any act or omission on the part of the Supplier or its employees or sub-contractors/suppliers that is claimed by a foreign collaborator from the Company shall be wholly borne by the Supplier and it shall keep BHEL fully indemnified in this behalf. The demand by the Company shall be conclusive upon the Supplier who shall thereupon forthwith pay to the Company without demur, dispute or delay the amount as demanded without demanding any further proof thereof.
- 4.6 The Supplier agrees and undertakes that unless so decided and advised by the Company in writing all rights/title to any Improvement to the Technical Information shall vest in the Company. The Supplier undertakes and agrees to inform forthwith to the Company of any such Improvement made to the Technical Information and transfer all drawings/documents or other materials connected with such Improvement to the Company and also agrees to fully cooperate with the Company for protecting the Company's interests in such Improvement in the Technical Information including but not limited to obtaining necessary protection for the intellectual property rights in such improvement, if so desired by the Company. If a question arises whether a modification amounts to Improvement to the Technical Information, the same shall be decided by the Company and such decision shall be final and binding upon the Supplier.

5. Use and Non-Disclosure:

- 5.1 Unless otherwise stipulated by the Company, all Technical Information made available to the Supplier, by the Company shall be treated as Confidential irrespective of whether the same is marked or otherwise denoted to be Confidential or not.

Annexure-G

- 5.2 The Supplier undertakes and agrees that the Technical Information in its possession shall be held in strict confidence and will be used strictly in accordance with this Agreement and solely for the Intended Purpose under the Contract. Use of the Technical Information for any other purpose other than Intended Purpose is prohibited.
- 5.3 In particular, the Supplier shall not use Technical Information or any Improvement in its possession for the manufacture or procurement of the Product(s) or components or parts thereof or use the Technical Information or any portion thereof or any modification or adaptation thereof in any form to provide any product and/or service to any third party, without the prior written consent of the Company.
- 5.4 The Supplier shall not disclose any of such Technical Information to any third party without the prior written consent of the Company. The Supplier agrees that without prior written consent of the Company, the Supplier shall not disclose to a third party about the existence of this Agreement, or of the fact that it is/was in possession of or has experience in the use of any Technical Information nor shall the Supplier share in any manner whatsoever, with a third party, the name or details of any Contract(s) awarded by the Company to it or performed by the Supplier or the scope of work thereof or share any document or correspondence by and between the Company and the Supplier in or in connection with this Agreement or such Contract(s). Notwithstanding what is stated elsewhere, the overall responsibility of any breach of the confidentiality provisions under this Agreement shall rest with the Supplier.
- 5.5 The Supplier undertakes and agrees not to make copies or extracts of and not to disclose to others any or all of the Technical Information in its possession, except as follows:
- (a) The Supplier may disclose the Technical Information to such of its officers and employees strictly to the extent as is necessary for such officer or employee for the Intended Purpose, provided that the Confidential Information (or copies thereof) disclosed shall be marked clearly as the confidential and proprietary information of Company and that such officers and employees shall similarly be bound by undertakings of confidence, restricted use and non-disclosure in respect of the Technical Information. The Supplier shall be responsible for any breach of such confidentiality provisions by such officers and employees.
 - (b) With the prior written consent of Company, the Supplier may disclose for the Intended Purpose such Technical Information as is provided for in such consent to such of its professional advisers: consultants, insurers and subcontractors who shall be similarly bound by undertakings of confidence, restricted use and non-disclosure in respect of such Technical Information.
 - (c) The Supplier shall not be prevented to make any disclosure required by (i) order of a court of competent jurisdiction or (ii) any competent regulatory authority or agency where such disclosure is required by law, provided that where the Supplier intends to

make such disclosure, it shall first consult Company and take all reasonable steps requested by it to minimize the extent of the Technical Information disclosed and to make such disclosure in confidence and also shall cooperate with the Company in seeking any protective order or any other remedy from proper authority in this matter.

6. Exceptions:

The obligations of the Supplier pursuant to the provisions of this agreement shall not apply to any Confidential Information that:

- a) was/is known to, or in the possession of the Supplier prior to disclosure thereof by the Company;
- b) is or becomes publicly known, otherwise than as a result of a breach of this agreement by the Supplier.
- c) is developed independently of the Disclosing Party by the Supplier in circumstances that do not amount to a breach of the provisions of this Agreement or the Contract;
- d) is received from a third party in circumstances that do not result in a breach of the provisions of this Agreement.

7. The obligation of maintaining confidentiality of the Technical Information on each occasion, shall subsist for the entire duration during which the Technical Information / equipment is in possession of the Supplier and shall thereafter subsist for a further period of ----- years from the date when the complete Technical Information has been returned to the Company and if Technical Information has been returned in portions on different dates then, the period of ---- years will be reckoned from the date when the last portion of the Technical Information has been returned. Notwithstanding the expiry of the confidentiality obligation, the obligation of the Supplier under clause 5.4 shall continue to subsist for a further period of ----- years.

8. Warranties & Undertakings:

a) The Supplier undertakes to ensure the due observance of the undertakings of confidence, restricted use and non-disclosure by its persons to whom it discloses or releases copies or extracts of the Technical Information.

b) The Supplier shall keep the Technical Information or improvement made therein properly segregated and not mix up the same with any other material/documents belonging to him/it or to any other third party.

c) The Supplier further undertakes that he/it shall not hypothecate or give on lease or otherwise alienate or do away with any of the Technical Information and/or equipment of the Company, made available to him/it, and undertakes that he/it shall hold the same as a trustee, in capacity of custodian thereof and use/utilise the same solely for the purpose of executing the Contract awarded by the Company.

d) The Supplier further undertakes that he/it shall return all the equipment and/or Technical Information as far as practicable in the same condition in which the same was made available to him/it by the Company together with any Improvement thereon and the documents connected with such Improvement, to the Company forthwith upon completion of the scope of work or

Annexure-G

Contract for which such Technical Information was provided by the Company to it or as directed by the Company together with a confirmation by way of an affidavit or in such manner as directed by the Company that it has not retained any equipment and/or Technical Information/Improvement thereof. In case any such equipment and/or Technical Information or Improvement thereof shall remain in his possession or is not capable of being returned, the retention and use of such Technical Information or Improvement thereto shall continue to be governed by this Agreement.

e) The Supplier undertakes to indemnify the Company for all the direct, indirect and/or consequential losses, damages, expenses whatsoever including any consequential loss of business, profits suffered by the Company owing to breach by the Supplier of its obligations under this Agreement and/or the confidentiality requirements, if any, contained in the Contract and that the Supplier hereby agrees that the decision of the Company in all such or any such matter/s shall be final and binding on the Supplier. On mere written demand of the Company, the Supplier shall forthwith and without demur or delay pay to the Company any such sum as determined by the Company as the amount of loss or damage or expense which has been suffered by the Company. The Supplier agrees that the Company shall be entitled to withhold and appropriate any amount payable to the Supplier under any Contract then existing between the Company and the Supplier, in case the Supplier fails to make payment, in terms of the written demand, within 7 days thereof. Without prejudice to the foregoing actions, in respect to any breach of this Agreement, the Company shall be entitled to take any other action against the Supplier as per applicable laws, the Contract, Company's applicable policies, guidelines rules, procedures, etc.

9. Without prejudice to any other mode of recovery as may be available to the Company for recovery of the amount determined as due as per Clause 9(f) hereinabove, the Company shall have a right to withhold, recover and appropriate the amount due towards such losses, damages, expenses, from any amount due to the Supplier in respect of any other Contract (s) placed on him/it by any department/office/Unit/Division of the said Company.

10. Arbitration & Conciliation:

a) In case amicable settlement is not reached between the Parties, in respect of any dispute or difference or claim or controversy arising out of the formation, breach, termination, validity or execution of the Contract(or Agreement) or the respective rights and liabilities of the parties or in relation to interpretation of any provision of the Contract or in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference or controversy or claim, (except as to any matters, the decision of which is specifically provided for therein) to the sole arbitration by the arbitrator appointed by Head/In-Charge of the Unit/Division/Region.

b) The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties to the dispute.

c) Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India), or other statutory modifications or re enactments thereof and the rules made thereunder and for the time

being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be at ----- **(Insert the name of the city/town of the concerned Unit/Division).**

d) In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

f) Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Supplier shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner.

11. Governing Law & Jurisdiction:

This Agreement shall be governed by and be construed as per applicable Indian Laws in force at the relevant time.

Subject to clauses 10(a) and 10(d) hereinabove, all matters in connection with the subject agreement shall be subject to exclusive jurisdiction of Courts situated at -----**(insert the name of the place where the Unit/Division is located)**

SIGNATURE

WITNESSES

1

Name
Address:

2.

Name:
Address:

Online SRF Submission Procedure

Following are the formalities to be completed by your company for registration purpose.

NOTE: BEFORE PROCEEDING FOR ONLINE REGISTRATION " PLS READ STEPS FOR FILLING UP ONLINE REGISTRATION FORM - HELP MENU" - DETAILS ATTACHED WITH THIS MAIL

With effect from 01.04.2015 onwards, we have migrated to online Supplier Registration Form (SRF) as per our Corporate guidelines. **Supplier Registration Form (SRF)** is to be fed in our BHEL website portal – **ie., PDF documents of SRF and its annexure as called for shall be signed by authorized signatory & uploaded in portal.**

We request to visit our Web Site : www.bhel.com and click under heading "Supplier Registration" and fill up the **"Supplier Registration Form"** which is available in the Online Supplier Registration Portal.

Or else, copy the following URL Link and paste in the web link address: http://www.bhel.com/vender_registration/vender.php and proceed with.

Or else, type directly as <http://203.129.195.108>

Click the button "search material" on the home page of supplier registration portal and search thoroughly your required material / product

*After completing the material search then proceed for User Id & Password for filling up the details of registration requirements. **Note: If you are an already registered supplier with any of our BHEL Unit - pls select "existing permanent supplier" or else select "New Registration" and then proceed accordingly.***

Please note that for a foreign suppliers' there is a separate format to be filled in, which may be taken care suitably.

After successful submission of SRF along with all annexures as called for thro' online i.e., authorized signatory signed pdf documents of SRF and its annexures are to be uploaded thro' online portal and confirm the same in **"form dispatch"** area ie., registration part-4 – wherein supplier has to confirm that all the documents were submitted "online" and click the button **"confirm"**. After clicking confirmation button, the same will be appearing against BHEL Ranipet for registration.

Looking for a long successful & sustaining business association with BHEL.

Payment Mechanism at BHEL, Ranipet

(Effective for all tenders issued by BHEL Ranipet from 01 July 2011 onwards unless otherwise notified of change/s in writing given by an authorized official of BHEL, Ranipet)

BHEL, Ranipet's payment mechanism will be as follows: (All Bidders are requested to read this carefully and take note of it before submitting their offer)

All bills of Suppliers processed for payment by BHEL, Ranipet shall pass through the following mile stones:

- (1) Receipt of materials at BHEL, Ranipet Stores (evidenced by the Day-Book Number and Date generated at BHEL Stores, Ranipet) or Receipt of materials at Project Site / Destination specified in the Purchase Order (as evidenced by the acknowledgement given by the Consignee).
- (2) Acceptance of the supplied materials at BHEL Stores, Ranipet. (Proof of evidence: Stores Receipt voucher - Short form "SRV", raised by BHEL Stores, Ranipet referenced by the SRV Number and Date)
- (3) Receipt and Registration of the Bills / Invoices of the Supplier at BHEL, Ranipet Accounts Department. (evidenced by the ABS Number and Date)
- (4) Receipt of clarifications, if any that may be required by BHEL, Ranipet Accounts or Purchase Department, from the Supplier. (As evidenced by the IOM Inward Date)
- (5) Bill processing and passing.
- (6) Payment release.

All these events are transparently available in the SCM web-site of BHEL, Ranipet, { <http://bapscm.bhelrpt.co.in/purc> } which can be viewed by all registered suppliers with a password.

Allowed Time frames:

- A] From DB to SRV: 10 Days
- B] From SRV to ABS: 15 Days
- C] From ABS to Bill Pass: 07 Days (if Stage 4 above is not applicable)

OR

From IOM to Bill Pass: 07 Days (if Stage 4 above is applicable)

- D] From Bill Pass to Payment Release: As per payment terms of the Purchase order.

All Suppliers payment/s would be released based on seniority of receipt of the processed bills at the payment section of BHEL, Ranipet Accounts Department.

The seniority would be based on the sequence of milestone events listed above.

In the sequence of the bill processing the preceding mile-stone seniority will be void, if the subsequent event occurs beyond the permitted time frame between two successive events.

Thus for example:

Start seniority would be with the DB date.

If the SRV date is greater than 10 days of the DB date, then the seniority of the DB date would be replaced by the SRV date.

If the ABS date is greater than 15 days of the SRV date, then the seniority would be reckoned by the ABS date.

If the Bill pass date is greater than 07 days of the ABS date then the seniority would be the date of inward receipt of the IOM.

The logics of these sequence is that SRV, ABS, IOM inward entry are dependent entirely on submission of correct documentation by Suppliers, as called for in the Purchase Order. If the documents are correctly submitted each of the milestone listed above will occur within BHEL, Ranipet within the timelines specified above.

Hence, in their own interest all Suppliers are requested to take note of this process and comply with the same.

Caution: Suppliers' payments would get delayed / affected if they fail to adhere to the submission of the documents specified in the Purchase Order / Contract, since the listed milestone events occurrence are contingent upon the availability of the requisite documents.