



BHARAT HEAVY ELECTRICALS LIMITED
INDUSTRIAL VALVES PLANT
433, INDUSTRIAL COMPLEX
GOINDWAL SAHIB
DISTT. TARN TARAN- PUNJAB – 143422

No.BHEL:IVP:
SC:VLV:AD
2019-20/01
Dated
11.04.2019

NOTICE INVITING APPLICATIONS FOR REGISTRATION OF SUB CONTRACTORS

BHARAT HEAVY ELECTRICALS LIMITED [BHEL] is manufacturing Industrial Valves and other Boiler accessories at its Industrial Valves Plant, Goindwal Sahib unit. For financial year 2019-20 we have to manufacture 2100 MT. Vendors are required for Job work as per the enclosed list of items. The approx. value of annual procurement shall be Rs 70 lac.

Expression of interest and applications for registration are invited from sub-contractors (BHEL encourages procurement from Micro and Small Enterprises (MSEs), MSEs are requested to apply for registration) for doing the machining job of various components of Conventional Valves. Various work centers involved in the machining jobs shall be VTL, Horizontal Boring, Turning centre, Milling, Conventional Lathe, Drill machine etc.

HM/LM Valves

Casting Machining of Body, Yoke, Bonnet, Disc, other machining components for valves. List of components, where machining vendors are required, is attached herewith as Annexure-I. Sample drawings of some components are also attached. (S.No of list – 107 and 694)

BHEL is looking for prospective Sub Contractors for above job work.

BHEL shall evaluate the vendors as per its established vendor selection, evaluation and registration procedure. Supplier Registration can be done online <https://supplier.bhel.in/>

BHEL invites such vendors to visit its above located plant on any working day from Monday to Saturday between 0900 Hrs to 1730 Hrs and contact undersigned for any clarification regarding:

Items details and requirement		Vendor registration form/procedure
Vineet Kumar Dy. Manager (Sub Contracting)	Manmeet Kumar Sr. Engineer (Sub Contracting)	Sahil Malhotra Dy. Manager (Sub-Contracting)
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BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL VALVES
PLANT, 433, INDUSTRIAL COMPLEX, GOINDWAL SAHIB,
DISTT. TARN TARAN, PUNJAB – 143 422

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
1	G1	Body Seat Ring Welding	10-C150-GV-CF8/CF8M
2	G46	Body Seat Ring Welding	2-1/2-C300-GV-CF8M/CF8
3	G88	Body Seat Ring Welding	3-C150-GV-CF8/CF8M
4	G106	Body Seat Ring Welding	3-C300-GV-CF8M/CF8
5	G129	Body Seat Ring Welding	4-C150-GV-CF8M/CF8
6	G145	Body Seat Ring Welding	4-C300-GV-CF8/CF8M
7	G174	Body Seat Ring Welding	6-C150-GV-CF8M/CF8
8	G194	Body Seat Ring Welding	6-C300-GV-CF8/CF8M
9	G199	Body Seat Ring Welding	8-C150-GV-CF8M/CF8
10	G205	Body Seat Ring Welding	8-C300-GV-CF8M/CF8
11	G5b	Body Skim Cut	10-C300-FV BW CF8M /CF8
12	G6b	Body Skim Cut	10-C300-FV BW WCB/WCC
13	G7b	Body Skim Cut	10-C300-FV FL WCB/WCC
14	G8b	Body Skim Cut	10-C300-GV BW CF8M/CF8
15	G11b	Body Skim Cut	10-C300-GV FL WCB/WCC
16	G14b	Body Skim Cut	12-C150-GV-BW CF8M/CF8
17	G15b	Body Skim Cut	12-C150-GV-FL CF8M/CF8
18	G17b	Body Skim Cut	12-C150-GV-FL WCB/WCC
19	G19b	Body Skim Cut	12-C300-FV-BW CF8M/CF8
20	G21a	Body Machining	12-C300-FV-FL-WCB/WCC/WC6/WC9
21	G31b	Body Skim Cut	14-C300-GV-FL CF8/CF8M
22	G32b	Body Skim Cut	14-C300-GV-FL WCB/WCC
23	G33b	Body Skim Cut	14-C300-GV-BW WCB/WCC
24	G33c	Body Machining	14-C300-GV-BW-MO-C12A
25	G39a	Body Machining	16-C300-GV-FL-WCB/WCC
26	G39b	Body Skim Cut	16-C300-GV-FL WCB/WCC
27	G40b	Body Skim Cut	16-C300-GV-BW WCB/WCC/WC6/WC9
28	G41b	Body Skim Cut	18-C150-GV-FL WCB/WCC
29	G42b	Body Skim Cut	18-C150-GV-BW WCB/WCC
30	G45	Body Machining	2-1/2-C300-FV-BW-WCB/WCC (Rough)
31	G47	Body Machining	2-1/2-C300-GV-BW-CF8M/CF8
32	G49	Body Machining Final	2-1/2-C300-GV- BW- WCB/WCC
33	G50	Body Rough	2-1/2-C300-GV- BW-WCB/WCC
34	G51	Body Machining	2-C150-FV-BW-CF8M/CF8
35	G52	Body Machining	2-C150-FV-FL-CF8M/CF8
36	G53	Body Machining	2-C150-FV-BW-WCB/WCC
37	G54	Body Machining	2-C150-FV-FL-WCB/WCC
38	G61	Body Machining	2-C300-FV-BW-CF8/CF8M
39	G62	Body Machining	2-C300-FV-FL-CF8/CF8M
40	G64	Body Machining	2-C300-FV-BW-WCB/WCC
41	G63	Body Machining	2-C300-FV-FL-WCB/WCC/WC6/WC9
42	G66	Body Machining	2-C300-GV-BW-CF8/CF8M
43	G70	Body Machining	2-C300-GV-BW-WCB/WCC/WC6/WC9
44	G81	Body Machining	2-C600-GV-BW-WCB/WCC/WC6/WC9
45	G82	Body Machining	2-C600-GV-BW-WCB/WCC/WC9 Body From Flgd
46	G100	Body Machining	3-C300-FV-FL-CF8M/CF8

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S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
47	G103	Body Machining	3-C300-FV-FL-WCB/WCC
48	G104	Body Machining	3-C300-GV-BW-CF8M/CF8
49	G114	Body Machining	3-C300-RV-FL-CF8M/CF8
50	G116	Body Machining	3-C300-RV-FL-WC6/WC9
51	G118	Body Machining	3-C300-RV-FL-WCB/WCC
52	G133	Body Machining	4-C150-GV-FL-WCB/WCC NC Body
53	G165	Body Machining	5-C150-FV-FL-WCB/WCC/WC6/WC9
54	G169	Body Rough Machining from 6" bod	5-C300-GV-BW-WCB/WCC/WC6/WC9
55	G169a	Body edge preparation only	5-C300-GV-BW-WCB/WCC/WC6/WC9
56	G180b	Body Machining	6-C150-GV-BW-WCB/WCC NC
57	G182	Body Machining	6-C150-GV-FL-WCB/WCC NC
58	G182a	Body Machining	6-C150-GV-FL-HO-CF8M-NC
59	G186	Body Machining	6-C300-FV-FL-CF8/CF8M
60	G189	Body Machining	6-C300-FV-FL-WCB/WCC
61	G197b	Body Machining	6-C300-GV-FL-WCB/WCC NC
62	G203b	Body Skim Cut	8-C300-GV-FL CF8/CF8M
63	G433	Body Machining	6-C300-SV-FL-WC6/WC9
64	G440	Body Machining	8-C150-FV-BW-CF8/CF8M
65	G441	Body Machining	8-C150-FV-FL-CF8/CF8M
66	G442	Body Machining	8-C150-FV-BW-WCB/WCC
67	G450	Body Machining	8-C300-FV-BW-CF8M/CF8
68	G451	Body Machining	8-C300-FV-FL-CF8/CF8M
69	G454	Body Machining	8-C300-FV-FL-WCB/WCC
70	G455	Body Machining	8-C300-RV-BW-CF8/CF8M
71	G456	Body Machining	8-C300-SV-FL-CF8/CF8M
72	G457	Body Machining	8-C300-RV-BW-WCB/WCC
73	G458	Body Machining	8-C300-RV-FL WCB/WCC
74	G1774	Body Machining	12" 600 GV FL WCB
75	G1873	Body Skim Cut	10-C600-GV-FL-WCB
76	G1874	Body Skim Cut	10-C600-GV-BW-WCB/WCC/WC6/WC9
77	G1882	Body Skim Cut	12-C600-GV-FL-GO-CF8-BP
78	G1888	Body Skim Cut	12-C600-GV-BW-GO-WCB/WCC
79	G1891	Body Skim Cut	16" 300 FV BW WCB
80	G1897	Body Skim Cut	20-150-WCB-BW-FV
81	G1902	Body Skim Cut	20-C150-GV-FL-WCB
82	G1903	Body Skim Cut	20-C150-GV-BW-WCB
83	G1904	Body Machining	20-C150-GV-FL-GO-WCB
84	G1909	Body Skim Cut	20-C300-GV-FL-WCB
85	G1910	Body Machining	20-C300-GV-BW-MO-WCB
86	G1911	Body Machining	20-C300-GV-FL-GO-WCB
87	G1916	Body Skim Cut	24-C150-GV-FL-WCB
88	G1917	Body Skim Cut	24-C150-GV-BW-MO-WCB
89	G1918	Body Machining	24-C150-GV-FL-WCB
90	G1919	Body Machining	24-C150-GV-BW-MO-WCB-BP
91	G1962	Body Machining	14-C300-WCB-BW-FV/WC9
92	G1963	Body Skim Cut	14-300-WCB-BW-FV

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S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
93	G2166	Body Skim Cut	18-C300-GV-BW-GO-WCB
94	G1886	Bonnet Machining	12-C600-GV-FL-GO-CF8-BP
95	G1890	Bonnet Machining	12-C600-GV-BW-GO-WCB/WCC/WC9
96	G1913	Bonnet Machining	20-C300-GV-BW-WCB/WC9
97	G1920	Bonnet Machining	24-C150-GV-FL-WCB
98	G233	Wedge Slitting	12-C150-GV-CF8M/CF8
99	G234	Wedge Slitting	12-C150-GV-WCB/WCC
100	G252	Wedge Slitting	2-C150-GV-CF8/CF8M
101	G257	Wedge Slitting	2-C150-GV-WCB/WCC/WC6/WC9
102	G258	Wedge Rough Machining	2-C150-GV-WCB/WCC NC Wedge
103	G262	Wedge Slitting	2-C300-GV-WCB/WCC/WC9/WC6
104	G288	Wedge Rough Machining	4-C150-GV-WCB/WCC NC WEDGE
105	G1921	Wedge Rough Machining	24-C150-GV-BW-MO-WCB
106	G1921a	Wedge Slitting - before welding	24-C150-GV-BW-MO-WCB
107	G2150	Wedge Rough Machining	22-C300-GV-BW-GO-WCB
108	G2150a	Wedge Slitting - before welding	22-C300-GV-BW-GO-WCB
109	G328b	Yoke Machining (Bonnet)	12-C300-GV-MO-WCB/WCC NC
110	G333	Yoke Machining	18-C150-GV-MO-WCB/WCC
111	G340	Yoke Machining	2-C150-SV-HW-CF8/CF8M
112	G367	Yoke Machining	3-C300-RV-HW-CF8M/CF8
113	G369	Yoke Machining	3-C300-RV-MO-CF8/CF8M
114	G371	Yoke Machining	3-C300-RV-MO-WCB/WCC/WC9/WC6
115	G375	Yoke Machining	3-C600-GV-MO-WC6/WC9
116	G377	Yoke Machining	3-C600-SV-HW-WCB/WCC
117	G383	Yoke Machining	4-C150-GV-HW-WCB/WCC NC YOKE
118	G401	Yoke Machining	4-C600-GV-MO-WCB/WCC
119	G403	Yoke Machining	5-C300-GV-HW-WCB/WCC
120	G408	Yoke Machining	6-C150-GV-HW-WCB/WCC NC YOKE
121	G411	Yoke Machining	6-C150-SV-HW-CF8/CF8M
122	G510	Yoke Machining	8-C600-GV-HW-WC6/WC9
123	G1885	Yoke Machining	12-C600-GV-FL-GO-CF8-BP
124	G521	ACT FLANGE-1902	8-C150-GV-FL-GO-WCB
125	G522	ACTUATOR BASE-E363	4-C300-GV-BW-MO-WCB
126	G523	ACTUATOR BASE-E404	12-C300-GV-BW-MO-WC9
127	G524	ACTUATOR FLG-N606	8-C150-GV-BW-MO-WCB
128	G561	SLEEVE	3"-300 GV WCB
129	G602	SLEEVE-E475	8-C600-GV-BW-GO-WCB
130	G1867	SLEEVE-E112	8-C150-GV-FL-HW-WCB
131	G1867a	SLEEVE-E512	Extension Spindle
132	G1945	SLEEVE-F768	12-C600-GV-BW-GO-WCB
133	G2159	SLEEVE-NE96	22-C300-GV-BW-GO-WCB
134	G608	ARM ASSY-Z047	12-C300-FV-BW-CF8M
135	G609	ARM ASSY-Z018	12-C300-FV-BW-WCB
136	G1970	ARM ASSY-Z023	14-300-WCB-BW-FV
137	G1970a	ARM ASSY-Z080	14-300-CF8M-BW-FV
138	G703	B.Seat Final F6	4-C600-GV-BW-MO-WCB

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S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
139	G646	Back Seat Final	12-C300-GV-WC6
140	G647	Back Seat Final Stellited	12-C300-GV-WCB
141	G652	Back Seat Final	14-C300-GV-WC9/C12A
142	G653	Back Seat Final	16-C150-GV-WCB
143	G654	Back Seat Final Stellited	16-C150-GV-WCB
144	G655	Back Seat Final CF8	16-C150-GV-WCB
145	G659	Back Seat Final F6	18-C150-GV-WCB
146	G660	Back Seat Final CF8	18-C150-GV-WCB
147	G661	Back Seat Final F6A	18-C150-GV-WCB
148	G666	Back Seat Final	2-C300-GV-WC6
149	G667	Back Seat Final	2-C300-GV-WCB
150	G673	Back Seat Final	2-C600-GV-WC9
151	G674	Back Seat Final	2-C600-GV-WCB
152	G680	B.Seat Final NC	3-C300-GV-WCB
153	G681	Back Seat Final	3-C300-GV-WCB
154	G682	Back Seat Final	3-C300-GV-WC6/WC9
155	G683	Back Seat Final	3-C300-RV-BW-HW-WC6
156	G684	Back Seat Final	3-C600-GV-BW-HW-WCB
157	G685	Back Seat Final	3-C600-GV-BW-MO-WC6/CF8M
158	G686	Back Seat Final F6	3-C600-GV-BW-MO-WCB
159	G700	Back Seat Final	4-C600-GV-BW-HW-WCC/WC6
160	G700a	Back Seat Final	4-C600-GV-BW-HW-CF8
161	G701	Back Seat Final F6	4-C600-GV-BW-HW-WC6
162	G713	Back Seat Final	6-C300-GV-WC6
163	G714	Back Seat Final Stellited	6-C300-GV-WCB
164	G715	Back Seat Final F6	6-C300-GV-WCB
165	G716	Back Seat Final	6-C300-GV-WCB
166	G2044	Back Seat Final	20-C300-GV-BW-GO-WCB/WC9
167	G2061	Back Seat Final	24-C150-GV-BW-MO-WCB-SG
168	G2062	Back Seat Final	24-C150-GV-BW-MO-WCB
169	G2153	Back Seat Final	22-C300-GV-BW-GO-WCB
170	G745	BALL-E085	4-C150-GV-FL-HW-WCB
171	G747	BASE BOT FLANGE-E324	16-C300-GV-BW-GO-WCB
172	G750	BOSS-P366	10-C300-RV-BW-MO-WCB
173	G751	BOTTOM FLANGE-E332	6-C600-GV-BW-HW-WCB-BP
174	G752	BOTTOM FLANGE-E378	8-C600-GV-BW-GO-WCB-SG-BP
175	G755	BOTTOM PLATE-N631	12-C300-GV-BW-HW-WCB
176	G756	BOTTOM PLATE-K268	2-C150-GV-BW-HW-WCB
177	G757	BOTTOM PLATE-N209	3-C300-GV-FL-HW-WCB
178	G759	BOTTOM PLATE-NC08	8-C150-GV-FL-HW-WCB
179	G760	BRACKET-F742	6-C600-GV-FL-HW-WCB-BP
180	G765	BRG RETAINER-N201	2-C150-GV-FL-HW-WCB
181	G775	BUSH-N207	6-C150-GV-FL-HW-WCB
182	G776	BUSH-K932	8-C300-RV-BW-HW-WCB
183	G777	TUBE OF BYPASS	10-C150-GV-BP
184	G778	TUBE OF BYPASS	10-C300-GV-BP

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
185	G779	TUBE OF BYPASS	12-C150-GV-BP
186	G780	TUBE OF BYPASS	12-C300-GV-BP
187	G781	TUBE OF BYPASS	14-C150-GV-BP
188	G782	TUBE OF BYPASS	14-C300-GV-BP
189	G783	TUBE OF BYPASS	16-C150-GV-BP
190	G784	TUBE OF BYPASS	16-C300-GV-BP
191	G785	TUBE OF BYPASS	18-C150-GV-BP
192	G786	TUBE OF BYPASS	4-C300-GV-BP
193	G787	TUBE OF BYPASS	6-C150-GV-BP
194	G788	TUBE OF BYPASS	6-C300-GV-BP
195	G789	TUBE OF BYPASS	6-C600-GV-BP
196	G790	TUBE OF BYPASS	8-C300-GV-BP
197	G791	TUBE OF BYPASS	8-C600-GV-BP
198	G2020	TUBE OF BYPASS-N477	20-C150-GV-BW-GO-WCB-BP
199	G2021	TUBE OF BYPASS-N933	20-C150-GV-FL-GO-WCB-BP
200	G2022	TUBE OF BYPASS-NE44	20-C150-GV-BW-MO-WCB-BP
201	G2047	TUBE OF BYPASS-C285	20-C300-GV-BW-GO-WCB-BP
202	G2065	TUBE OF BYPASS	24-C150-GV-BW-MO-WCB-BP
203	G792	CAP TUBE-NA43	16-C150-GV-BW-MO-WCB
204	G795	CHAIN WHEEL-400-K295	6-C150-GV-FL-HW-WCB
205	G796	CHAIN WHEEL-K243	6-C300-SV-BW-HW-WCB
206	G797	CHAIN WHEEL-450-K296	8-C150-GV-BW-HW-WCB
207	G798	CHAIN WHEEL-450-S568	8-C300-RV-BW-HW-WCB
208	G806	COMPANION FLANGE-K001	4-C150-GV-FL-HW-WCB
209	G814	COMP.FL.8/600C-K250	8-C600-GV-FL-GO-WCB
210	G832	CONN PIN-E100	4-C150-GV-FL-HW-WCB
211	G833	CONN TUBE-E473	12-C150-GV-FL-HW-WCB
212	G834	CONN TUBE-E353	16-C150-GV-FL-MO-WCB
213	G835	CONNECTING TUBE-E357	4-C150-GV-FL-HW-WCB
214	G836	COUPLING-E474	4-C150-GV-FL-HW-WCB
215	G849	COVER	2-C300-FV-BW-CF8
216	G851	COVER	2-C300-FV-FL-WCB
217	G1971	COVER	14-300-WCB-BW-FV/WC9
218	G890	Disk Final SV	6-C150-SV-CF8
219	G899	Disc Retainer SV	2-C150-SV-CF8
220	G908	END COVER-N206	10-C150-GV-FL-HW-WCB
221	G909	END COVER-N207	12-C150-GV-FL-GO-WCB
222	G910	END COVER-E061	12-C150-GV-FL-HW-WCB
223	G911	END COVER-N723	14-C150-GV-FL-GO-WCB
224	G912	END COVER-N754	16-C150-GV-FL-GO-WCB
225	G913	END COVER-N201	2-C150-GV-FL-HW-WCB
226	G914	END COVER-N202	3-C150-GV-FL-HW-WCB
227	G915	END COVER-S847	3-C600-GV-BW-HW-WCB
228	G916	END COVER-E060	4-C150-GV-FL-HW-WCB
229	G917	END COVER-N203	4-C150-GV-FL-HW-WCB
230	G919	END COVER-N204	6-C150-GV-FL-HW-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
231	G921	END COVER-N211	6-C300-GV-FL-HW-WCC
232	G922	END COVER-N205	8-C150-GV-FL-HW-WCB
233	G925	FIXING CLAMP-K011	10-C300-GV-BW-HW-WCB
234	G926	FIXING CLAMP-U109	12-C300-GV-BW-HW-WCB
235	G927	FIXING CLAMP-K324	2-C150-GV-BW-HW-WCB
236	G928	FIXING CLAMP	3-C300-GV-FL-HW-WCB
237	G929	FIXING CLAMP-K163	8-C150-GV-BW-HW-WCB
238	G930	FIXING PLATE-E471	16-C300-GV-BW-GO-WCB
239	G931	FIXING PLATE-K011	8-C150-GV-BW-HW-WCB
240	G932	FLANGE-E377	10-C300-GV-BW-HW-WCB
241	G933	FLANGE-P474	10-C300-RV-BW-GO-WCB
242	G934	FLANGE-P366	10-C300-RV-BW-MO-WCB
243	G936	FLANGE-E046	4-C150-GV-FL-HW-WCB
244	G944	GLAND FLANGE	10-C150-GV-FL-MO-WCB
245	G946	GLAND FLANGE	10-C300-RV-BW-MO-WCB
246	G950	GLAND FLANGE	14-C150-GV-FL-GO-WCB
247	G952	GLAND FLANGE	16-C150-GV-BW-MO-WCB
248	G954	GLAND FLANGE	18-C150-GV-FL-GO-WCB
249	G1980	GLAND FLANGE	10-C600-GV-FL-MO-WCB-BP
250	G2068	GLAND FLANGE	24-C150-GV-BW-MO-WCB
251	G2155	GLAND FLANGE	22-C300-GV-BW-GO-WCB
252	G976	Gland Follower	10-C150-GV-WCB/NC
253	G983	Gland Follower	12-C300-GV-WC9
254	G988	Gland Follower	18-C150-GV-WCB
255	G991	Gland Follower	2-C150-SV-CF8
256	G997	Gland Follower	3-C300-RV-CF8M
257	G998	Gland Follower	3-C300-RV-WCB
258	G999	Gland Follower	3-C600-GV-WCB
259	G1003	Gland Follower	4-C300-GV-CF8M
260	G1005	Gland Follower	4-C600-GV-WCB
261	G1005a	Gland Follower	4-C600-GV-CF8M
262	G1009	Gland Follower	6-C150-SV-CF8
263	G1020	Gland Follower	8-C300-RV-WCB
264	G2112	Gland Follower	8-C600-GV-FL-GO-WCB
265	G2156	Gland Follower	22-C300-GV-BW-GO-WCB
266	G1021	GLAND-B001	2-C600-GV-FL-HW-WC9
267	G1023	GUIDE BRACKET AS-A982	8-C150-GV-BW-HW-WCB
268	G1024	GUIDE BRACKET AS-A985	6-C150-GV-FL-HW-WCB
269	G1025	GUIDE BUSH-E195	4-C150-GV-FL-HW-WCB
270	G1028	H.W RETAINER-B001	2-C600-GV-FL-HW-WC6
271	G1029	H.W RETAINER-B004	6-C600-GV-BW-HW-WCB
272	G1030	H W RETAINER-1530	8-C600-GV-RTJ-HW-WC6
273	G1034	HUB-K020	10-C300-GV-BW-HW-WCB
274	G1035	HUB-E465	12-C150-GV-FL-HW-WCB
275	G1037	HUB-K357	4-C300-GV-BW-HW-WCB
276	G1039	INDICATOR DISC-N790	12-C150-GV-FL-GO-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
277	G1040	INDICATOR DISC-N628	12-C300-GV-BW-GO-WC9
278	G1041	INDICATOR DISC-1149	3-C600-GV-BW-HW-WCB
279	G1043	INDICATOR DISC-2935	4-C300-SV-BW-MO-WCB
280	G1045	INDICATOR DISC-N244	8-C300-GV-BW-HW-WC9
281	G1046	INDICATOR RING-1286	16-C300-GV-BW-MO-WCB
282	G1047	INDICATOR RING-B001	2-C600-GV-FL-HW-WC6
283	G1048	INDICATOR-E125	12-C150-GV-FL-HW-WCB
284	G1049	INDICATOR-N207	10-C150-GV-FL-HW-WCB
285	G1050	INDTR. ARRANGEMENT	10"-150 GV WCB
286	G1051	INDTR. ARRANGEMENT	10"-300 GV WCB
287	G1052	INDTR. ARRANGEMENT	12"-150 GV WCB
288	G1053	INDTR. ARRANGEMENT	12"-300 GV WCB/WC6/WC9
289	G1054	INDTR. ARRANGEMENT	2-C150-GV-WCB
290	G1055	INDTR. ARRANGEMENT	2-C300-GV-WCB
291	G1057	INDTR. ARRANGEMENT	3-C300-GV-WCB
292	G1058	INDTR. ARRANGEMENT	4-C150-GV-WCB/CF8M
293	G1059	INDTR. ARRANGEMENT	4-C300-GV-WCB
294	G1061	INDTR. ARRANGEMENT	6-C300-GV-WCB
295	G1062	INDTR. ARRANGEMENT	6-C600-GV-WCB
296	G1065	INDTR. ARRANGEMENT	8-C600-GV-WCB
297	G1068	JOINT END-E080	4-C150-GV-FL-HW-WCB
298	G1069	JOINT END-E090	4-C150-GV-FL-HW-WCB
299	G1070	LANTERN RING	10-C150-GV-CF8M-SG
300	G1071	LANTERN RING	12-C150-GV-WCB-SG
301	G1073	LANTERN RING	16-C150-GV-WCB-SG
302	G1077	LANTERN RING	2-C600-GV-WC6-SG
303	G1079	LANTERN RING	3-C300-GV/RV-WCB/CF8M SG
304	G1083	LANTERN RING	4-C600-GV-RTJ-HW-WCB-SG
305	G1086	LANTERN RING	6-C600-GV-WCB-SG
306	G1089	LANTERN RING	8-C600-GV-WCB-SG
307	G2161	LANTERN RING-NG12	22-C300-GV-BW-GO-WCB
308	G2072	LANTERN RING-K821	24-C150-GV-BW-MO-WCB-SG
309	G1090	LEVER ARM-M662	3-C300-SV-FL-HW-WCB
310	G1092	LEVER PIN-M662	3-C300-SV-FL-HW-WCB
311	G1096	LOCK BUSH-N213	12-C300-GV-BW-GO-WCB
312	G1098	LOCK BUSH-N204	8-C600-GV-FL-GO-WCB
313	G1099	LOCK HOOK-N206	10-C150-GV-BW-HW-WCB
314	G1100	LOCK HOOK-NC51	12-C150-GV-FL-GO-WCB
315	G1101	LOCKING ARRGT.HOOK	12-C300-GV-BW-GO-WCB
316	G1103	LOCKING ARRGT.HOOK	16-C150-GV-FL-GO-WCB
317	G1104	LOCK HOOK-N201	2-C150-GV-FL-HW-CF8
318	G1105	LOCK HOOK-N204	2-C600-GV-FL-HW-WCB
319	G1106	LOCK HOOK-N213	6-C600-GV-BW-HW-WCB
320	G1107	LOCK HOOK-N205	8-C150-GV-BW-HW-WCB
321	G1108	LOCK HOOK-N954	8-C600-GV-FL-GO-WCB
322	G1109	LOCK PLATE	10-C150-GV-BW-HW-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
323	G1111	LOCK PLATE	12-C150/300-GV-FL-GO-WCB
324	G1113	LOCK PLATE	14-C150-GV-FL-GO-WCB
325	G1114	LOCK PLATE	2-C150-GV-FL-HW-CF8
326	G1116	LOCK PLATE	3-C600-GV-BW-HW-WCB
327	G1119	LOCK PLATE	6-C600-GV-BW-HW-WCB
328	G1122	LOCK PLATE	8-C600-GV-FL-GO-WCB
329	G1124	MOUNTING PLATE-N206	10-C150-GV-FL-HW-WCB
330	G1125	MOUNTING PLATE-N207	12-C150-GV-FL-HW-WCB
331	G1126	MOUNTING PLATE-K922	3-C300-GV-FL-HW-WCB
332	G1127	MOUNTING PLATE-N204	6-C150-GV-FL-HW-WCB
333	G1128	MOUNTING PLATE-N205	8-C150-GV-FL-HW-WCB
334	G1129	PILLAR-E235	12-C150-GV-FL-HW-WCB
335	G1131	PILLAR	16-C300-GV-BW-GO-WCB
336	G1135	PIN-N812	12-C300-GV-BW-GO-WCB
337	G1139	PIN-1450	2-C600-GV-BW-HW-WCB
338	G1140	PIN-E065	4-C150-GV-FL-HW-WCB
339	G1141	PIN-E105	4-C150-GV-FL-HW-WCB
340	G1142	PIN-E115	4-C150-GV-FL-HW-WCB
341	G1143	PIN-K661	6-C300-SV-FL-HW-WCB
342	G1144	PLUG-5159	10-C300-FV-FL-WCB
343	G1146	PLUG 1/4 NPT-C281	2-C300-GV-BW-HW-WCB
344	G1147	PLUG	3-C150-FV-FL-CF8/CF8M
345	G1148	PLUG-5196	4-C300-FV-BW-CF8
346	G1149	PLUG 3/4 NPT (F316)-5196	6-C150-FV-FL-CF8
347	G1150	PLUG-5182	6-C300-FV-FL-WC9
348	G1151	PLUG-Z001	8-C150-FV-FL-CF8
349	G1152	PLUG	8-C150-FV-FL-WCB
350	G1153	PLUG	8-C300-FV-BW-WC9/WCB
351	G1154	PLUG	8-C300-GV-BW-MO-WC6
352	G1155	SCREW PLUG - 1/2-F604	4-C300-GV-BW-HW-WCB
353	G1181	RETAINER BOSS-P366	10-C300-RV-WCB
354	G1182	RETAINER GUIDE-P366	10-C300-RV-WCB
355	G1183	RETAINER-N207	10-C150-GV-WCB
356	G1185	RETAINER-N631	12-C300-GV-WCB
357	G1186	RETAINER-K585	16-C150-GV-WCB
358	G1187	RETAINER-1217	16-C300-GV-WCB
359	G1188	RETAINER-NC02	2-C150-GV-WCB
360	G1189	RETAINER-F502	3-C600-GV-WCB
361	G1191	RETAINER-S836	6-C300-GV-WCB
362	G1202	Disc Retainer RV	10-C300-RV-WCB
363	G1206	RING OF INDEX-K333	2-C300-RV-FL-HW-WCB
364	G1208	RING OF INDEX-K335	6-C300-RV-FL-HW-WCB
365	G1209	RING OF INDEX	8-C300-RV-BW-HW-WCB
366	G1211	SCALE OF INDEX-K333	2-C300-RV-FL-HW-WCB
367	G1212	SCALE OF INDEX	3-C300-RV-FL-HW-WCB
368	G1213	SCALE OF INDEX-2886	4-C300-RV-FL-HW-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
369	G1214	SCALE OF INDEX	6-C300-SV-BW-HW-WCB
370	G1215	SCALE OF INDEX-2925	8-C300-RV-BW-HW-WCB
371	G1237	Seat Ring Final	12-C300-FV-BW-CF8M
372	G1238	Seat Ring Final Stellited	12-C300-FV-FL-WCB
373	G1239	Seat Ring Final	12-C300-FV-FL-WCB
374	G1244	Seat Ring Final Stellited	14-C150-GV-BW-GO-WCB
375	G1246	Seat Ring Final	14-C300-GV-BW-MO-WC9
376	G1246a	Seat Ring Final	14-C300-GV-BW-MO-C12A
377	G1247	Seat Ring Final	14-C300-GV-FL-GO-CF8
378	G1248	Seat Ring Final Stellited	14-C300-GV-FL-GO-WCB
379	G1250	Seat Ring Final Stellited	16-C150-GV-BW-MO-WCB
380	G1251	Seat Ring Final	16-C150-GV-WCB/16-C150-FV-FL-WCB
381	G1252	Seat Ring Final	16-C300-GV-FL-GO-WCB
382	G1253	Seat Ring Final	16-C300-GV-FL-MO-WC9
383	G1253a	Seat Ring Final	18-C300-GV-BW-GO-C12A
384	G1254	Seat Ring Final Stellited	16-C400-GV-BW-GO-WCB
385	G1255	Seat Ring Final	18-C150-GV-BW-MO-WCB
386	G1256	Seat Ring Final Stellited	18-C150SPL-GV-WCB
387	G1295	Seat Ring Final Stellite	4-C150-FV-FL-WCB
388	G1320	Seat Ring Final Stellite	6-C150-FV-BW-CF8/CF8M
389	G1321	Seat Ring Final	6-C150-FV-FL-CF8M
390	G1322	Seat Ring Final Stellite	6-C150-FV-BW-WCB
391	G1323	Seat Ring Final	6-C150-FV-FL-WCB
392	G2073	Seat Ring Final Stellite	24-C150-GV-BW-MO-WCB K902
393	G2074	Seat Ring Final	24-C150-GV-FL-MO-WCB
394	G2148	Seat Ring Final	22-C300-GV-BW-GO-WCB
395	G1372	SPIN EXTN PIN-E324	16-C300-GV-BW-GO-WCB
396	G1372a	SPIN EXTN PIN-E513	14-C150-GV-FL (Extension Spindle)
397	G1374	SPIN. BOTTOM FL.-E407	4-C300-GV-BW-MO-WCB
398	G1376	SPINDLE EXTN TUBE-E467	4-C300-GV-BW-MO-WCB
399	G1377	SPINDLE EXTN UNIT-E074	12-C150-GV-FL-HW-WCB
400	G1378	SPINDLE EXTN UNIT-E332	6-C600-GV-BW-HW-WCB
401	G1379	SPINDLE EXTN UNIT-E456	10-C300-GV-BW-HW-WCB
402	G1380	SPINDLE TOP-E465	12-C150-GV-FL-HW-WCB
403	G1381	SPIN EXTN TOP-E423	12-C300-GV-BW-MO-WC9
404	G1382	SPINDLE TOP-E474	4-C150-GV-FL-HW-WCB
405	G1383	SPINDLE EXTN TOP-E363	4-C300-GV-BW-MO-WCB
406	G1389	SPINDLE-E203	4-C150-GV-FL-HW-WCB
407	G1390	SPINDLE-E363	4-C300-GV-BW-MO-WCB
408	G1391	SPINDLE-E475	8-C600-GV-BW-GO-WCB
409	G1393	STAND ASSY	4-C300-GV-BW-MO-WCB
410	G1394	STAND ASSY-E460	12-C300-GV-BW-MO-WC9
411	G1395	STAND ASSY-E463	18-C150-GV-BW-GO-WCB
412	G1396	STAND BOTTOM FL.-E407	4-C300-GV-BW-MO-WCB
413	G1397	STAND TUBE-E456	10-C300-GV-BW-HW-WCB
414	G1399	STAND TUBE-E463	18-C150-GV-BW-GO-WCB

Valves - List of Items in which additional vendors are required for Job Work

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S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
415	G1400	STAND TUBE-E467	4-C300-GV-BW-MO-WCB
416	G1414	STEM (with Hard Chrome Plating)	14-C300-GV-WC9
417	G1415	STEM	14-C300-GV-CF8
418	G1416	STEM	14-C300-GV-WCB
419	G1941	STEM	12-C600-GV-FL-CF8/WCB/WC9
420	G2057	STEM	20-C300-GV-BW-GO-WCB
421	G2081	STEM	24-C150-GV-BW-MO-WCB
422	G1479	STOPPER-B001	2-C600-GV-FL-HW-WC6
423	G1480	STOPPER-E471	16-C300-GV-BW-GO-WCB
424	G1482	STRIKER PLATE-N209	3-C300-GV-FL-HW-WCB
425	G1483	STRIKER PLATE C-K268	4-C300-GV-BW-HW-WCB
426	G1485	STRIKER-E488	10-C300-GV-BW-HW-WCB
427	G1486	SUNK KEY-W057	16-C150-GV-FL-MO-WCB
428	G1487	SUPPORT BRACKET-E460	12-C300-GV-BW-MO-WC9
429	G1488	SUPPORT BRACKET-E463	18-C150-GV-BW-GO-WCB
430	G1489	SUPPORT BRACKET	4-C300-GV-BW-MO-WCB
431	G1490	SUPPORT PLATE-B676	8-C600-GV-FL-GO-WCB
432	G1491	SUPPORT PLATE-F742	6-C600-GV-FL-HW-WCB
433	G1492	SWITCH BRACKET-E471	16-C300-GV-BW-GO-WCB
434	G1493	SWITCH BRACKET-K325	12-C300-GV-BW-GO-WCB
435	G1496	THRUST BASE-E387	16-C300-GV-BW-GO-WCB
436	G1497	THRUST BASE-E363	4-C300-GV-BW-MO-WCB
437	G1498	THRUST BASE-E475	8-C600-GV-BW-GO-WCB
438	G1500	THRUST PLATE-P366	10-C300-RV-BW-MO-WCB
439	G1504	TIE ROD-A982	8-C150-GV-BW-HW-WCB
440	G1505	TIE ROD-A985	6-C150-GV-FL-HW-WCB
441	G1506	TOP COVER-1084	6-C150-GV-FL-MO-WCB
442	G1507	TOP COVER-B004	12-C150-GV-FL-MO-WCB
443	G1508	TOP FLANGE-E378	8-C600-GV-BW-GO-WCB
444	G1510	TOPCOVER-N795	6-C150-GV-FL-MO-WCB
445	G1511	TRIP ROD-P474	10-C300-RV-BW-GO-WCB
446	G1516	TUBE	16-C150-GV-FL-MO-WCB
447	G1519	TUBE	2-C300-GV-BW-HW-WCB
448	G1520	TUBE	2-C600-GV-FL-HW-WC6
449	G1522	TUBE	3-C600-GV-BW-HW-WCB
450	G1527	TUBE	6-C150-GV-BW-MO-WCB
451	G1529	TUBE	6-C300-RV-BW-MO-WCB
452	G1533	TUBE	8-C300-RV-BW-MO-WCB
453	G1534	UNIVERSAL JOINT-E095	4-C150-GV-FL-HW-WCB
454	G1535	VB6SPINDLE EXTN UNIT-E467	4-C300-GV-BW-MO-WCB
455	G1536	WASHER-S568	8-C300-GV-BW-HW-CF8M
456	G1537	WASHER-S605	6-C150-GV-FL-HW-WCB
457	G1538	Felt Ring Washer -W057	16-C150-GV-FL-MO-WCB
458	G1550	YOKE BUSH NI RES-K386	2-C150-GV-BW-HW-WCB
459	G1551	YOKE BUSH-NI RES-N201	2-C150-GV-FL-HW-CF8
460	G1552	YOKE BUSH-NC02	2-C150-GV-FL-HW-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
461	G1553	YOKE BUSH-2880	2-C150-SV-FL-HW-CF8
462	G1555	YOKE BUSH-2477	2-C300-RV-FL-HW-WCB
463	G1556	YOKE BUSH-B001	2-C600-GV-FL-HW-WC6
464	G1557	YOKE BUSH-B101	2-C600-GV-FL-HW-WCB
465	G1559	YOKE BUSH-NI RESIST	2-C600-GV-FL-HW-WCB
466	G1561	YOKE BUSH-NC03	3-C150-GV-FL-HW-WCB
467	G1562	YOKE BUSH-2685	3-C300-RV-BW-HW-CF8M
468	G1564	YOKE BUSH-F602	3-C600-GV-BW-HW-WCB
469	G1568	YOKE BUSH-NC04	4-C150-GV-FL-HW-WCB
470	G1569	YOKE BUSH-N251	4-C300-GV-FL-HW-WCB
471	G1570	YOKE BUSH NI-RE-2690	4-C300-SV-BW-HW-WCB
472	G1571	YOKE BUSH-NI RES-N204	6-C150-GV-BW-HW-CF8M
473	G1572	YOKE BUSH-N218	6-C150-GV-FL-HW-WCB
474	G1574	YOKE BUSH-2883	6-C150-SV-FL-HW-CF8
475	G1576	YOKE BUSH NI-RE-2928	6-C300-SV-BW-HW-CF8M
476	G1577	YOKE BUSH-N009	8-C150-GV-FL-HW-WCB
477	G1578	YOKE BUSH-NC08	8-C150-GV-FL-HW-WCB
478	G1579	YOKE BUSH-NI RES-N205	8-C150-GV-FL-HW-WCB
479	G1580	YOKE BUSH NI RES-K387	8-C300-GV-BW-HW-WCB
480	G1582	YOKE BUSH-P338	8-C300-SV-FL-HW-WCB
481	G1583	YOKE BUSH-F608	8-C600-GV-BW-HW-WCB
482	G1777	YOKE BUSH-Z065	10-C300-FV-BW-WCB-NON SLAM
483	G1991	TUBE OF BYPASS-F546	10-C600-GV-FL-MO-WCB-BP
484	G2149	Seat Ring Rough	22-C300-GV-BW-GO-WCB
485	G1933	Back Seat Rough	12-C600-GV-FL-GO-CF8-BP
486	G1943	Back Seat Rough	12-C600-GV-BW-GO-WCB/WC9
487	G2045	Back Seat Rough	20-C300-GV-BW-GO-WCB/WC9
488	G2063	Back Seat Rough	24-C150-GV-BW-MO-WCB-SG
489	G2064	Back Seat Rough	24-C150-GV-BW-MO-WCB
490	G2154	Back Seat Rough	22-C300-GV-BW-GO-WCB
491	G1765	Rib	16-C150-GV-FL-MO-WCB
492	G1767	GLAND ASSY-E465	12-C150-GV-FL-HW-WCB
493	G1768	GLAND ASSY-E474	4-C150-GV-FL-HW-WCB
494	G1776	SPINDLE-Z065	10-C300-FV-BW-WCB-NON SLAM
495	G1778	LEVER-Z065	10-C300-FV-BW-WCB-NON SLAM
496	G1779	CONNECTOR-Z065	10-C300-FV-BW-WCB-NON SLAM
497	G1780	PRALLEL KEY-Z065	10-C300-FV-BW-WCB-NON SLAM
498	G1828	STUD-5402	10-C150-GV-BW-MO-WCB
499	G1829	STUB-1123	10-C150-GV-FL-MO-WCB
500	G1830	STUB-1130	10-C300-GV-FL-GO-WCB
501	G1831	STUD-E159	12-C150-GV-FL-HW-WCB
502	G1832	STUD-N204	2-C300-GV-BW-HW-WCB
503	G1833	STUD-N204	2-C600-GV-FL-HW-WC9
504	G1834	STUD-K247	3-C600-GV-FL-HW-WCB
505	G1835	STUD-K248	4-C600-GV-FL-HW-WCB
506	G1836	STUB-1708	8-C150-GV-BW-MO-WCB

Valves - List of Items in which additional vendors are required for Job Work

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S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
507	G1837	STUD-5618	8-C150-GV-FL-MO-WCB
508	G1838	STUD-B023	8-C300-FV-BW-WC9
509	G1839	SW FLANGE 2/300-A941	2-C300-SV-FL-HW-WCB
510	G1840	SW FLANGE 3/150-A942	3-C150-GV-FL-HW-WCB
511	G1841	SW FLANGE 3/300-A943	3-C300-RV-FL-MO-WCB
512	G1842	GLAND PIN-2880	2-C150-SV-FL-HW-CF8
513	G1843	GLAND PIN-2883	6-C150-SV-FL-HW-CF8
514	G1844	INDICATOR PIN-B007	2-C600-GV-FL-HW-WC6
515	G1845	INDICATOR PIN-E332	6-C600-GV-BW-HW-WCB
516	G1846	INDICATOR PIN-E471	16-C300-GV-BW-GO-WCB
517	G1847	INDICATOR STUD-C434	16-C300-GV-BW-MO-WCB
518	G1848	INDICATOR STUD-B002	2-C600-GV-FL-HW-WC6
519	G1849	INDICATOR STUD-2922	4-C300-SV-BW-MO-WCB
520	G1850	INDICATOR STUD-2893	6-C300-SV-FL-MO-WCB
521	G1851	INT.FLANGE-NC51	12-C150-GV-FL-GO-WCB
522	G1852	INT.FLANGE-K982	12-C150-GV-FL-MO-WCB
523	G1853	INT.FLANGE-E423	16-C150-GV-FL-MO-WCB
524	G1854	INT.FLANGE-E471	16-C300-GV-BW-GO-WCB
525	G1855	INT.FLANGE-E363	4-C300-GV-BW-MO-WCB
526	G1856	INT.FLANGE-F503	4-C600-GV-BW-MO-WCB
527	G1857	INT.FLANGE-K981	8-C150-GV-FL-MO-WCB
528	G1858	INT.FLANGE-E475	8-C600-GV-BW-GO-WCB
529	G1859	INT. FLANGE-F508	8-C600-GV-RTJ-HW-WC6
530	G1860	LIMIT SWITCH PIN-P474	10-C300-RV-BW-GO-WCB
531	G1861	LOCK NUT-N206	10-C150-GV-FL-HW-WCB
532	G1862	LOCK NUT-N207	12-C150-GV-FL-HW-WCB
533	G1863	LOCK NUT-N204	6-C150-GV-FL-HW-WCB
534	G1864	LOCK NUT-N205	8-C150-GV-FL-HW-WCB
535	G1865	SSW FLANGE-A857	2-C300-SV-FL-HW-CF8
536	G1866	SSW FLANGE-A858	3-C300-RV-FL-MO-CF8
537	G1869	TUBE-E052	6-C150-GV-FL-HW-WCB
538	G1870	CONN TUBE-E487	6-C150-GV-FL-HW-WCB
539	G1871	MOUNTING BRACKET-E488	10-C300-GV-BW-HW-WCB
540	G1872	CONN TUBE -E488	10-C300-GV-BW-HW-WCB
541	G1898	COVER-Z021	20-150-WCB-BW-FV
542	G1938	TUBE OF BYPASS-F510	12-C600-GV-FL-GO-CF8-BP
543	G1948	PIN-F768	12-C600-GV-BW-GO-WCB
544	G1954	TUBE-1782	12-C600-GV-FL-MO-WCB-BP
545	G1958	WEDGE MATCHING WITH BODY	18"-150 GV WCB
546	G1959	WEDGE MATCHING WITH BODY	20"-150 GV WCB
547	G1960	WEDGE MATCHING WITH BODY	20"-300-GV-WCB
548	G1961	WEDGE MATCHING WITH BODY	24"-150 GV WCB
549	G1969	DISC NUT-L802 (FLAP NUT)	14-300-WCB-BW-FV
550	G1982	INDICATOR ARRANGEMENT-F509	10-C600-GV-BW-HW-WCB
551	G1983	INDICATOR ARRGT.-F506	10-C600-GV-BW-GO-WCB-SG
552	G1995	CAP ASSEMBLY-N972	14-C150-GV-FL-MO-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
553	G1997	CAP TUBE-N972	14-C150-GV-FL-MO-WCB
554	G2000	DISC NUT-L705	16-300SPL-WCB-BW-FV
555	G2000a	DISC NUT-U946 (F316)	18-C150-FV-FL-WCB
556	G2001	KNOCK PIN D16X25-Z029	16-300SPL-WCB-BW-FV
557	G2002	LUG-Z022	16-300SPL-WCB-BW-FV/WC9
558	G2009	KNOCK PIN D16X27-L805	20-150-WCB-BW-FV
559	G2010	KNOCK PIN D16X27-L805	20-150-WCB-BW-FV
560	G2011	LUG-Z021	20-150-WCB-BW-FV
561	G2023	CAP ASSEMBLY-N231	20-C150-GV-BW-GO-WCB-BP
562	G2024	CAP ASSEMBLY-N579	20-C150-GV-BW-MO-WCB-SG
563	G2025	CAP TUBE-N231	20-C150-GV-BW-GO-WCB-BP
564	G2026	CAP TUBE-N579	20-C150-GV-BW-MO-WCB-SG
565	G2030	INDICATOR RING-N224	20-C150-GV-FL-GO-WCB
566	G2032	S G PLUG-N370	20-C150-GV-BW-MO-WCB-SG
567	G2040	TUBE-1780	20-C150-GV-BW-MO-WCB-SG
568	G2046	BRACKET-C364	20-C300-GV-FL-GO-WCB-BP
569	G2066	COVER-1083	24-C150-GV-BW-MO-WCB-SG
570	G2069	INDICATOR RING-1757	24-C150-GV-FL-GO-WCB
571	G2070	INDICATOR STUD M20X210 -N722	24-C150-GV-FL-GO-WCB
572	G2082	STUD M20X140 -N436	24-C150-GV-FL-GO-WCB
573	G2093	WEDGE MATCHING WITH BODY	2-150 GV
574	G2094	WEDGE MATCHING WITH BODY	2-300 GV
575	G2095	WEDGE MATCHING WITH BODY	3-150 GV
576	G2096	WEDGE MATCHING WITH BODY	3-300 GV
577	G2097	WEDGE MATCHING WITH BODY	4-150 GV
578	G2098	WEDGE MATCHING WITH BODY	4-300 GV
579	G2099	WEDGE MATCHING WITH BODY	6-150 GV
580	G2100	WEDGE MATCHING WITH BODY	6-300 GV
581	G2102	BODY ASSY WITH WEDGE 3-150 GV	3-150 GV BW WCB
582	G2103	BODY ASSY WITH WEDGE 3-150 GV	3-150 GV FL WCB
583	G2104	BODY ASSY WITH WEDGE 3-300 GV	3-C300-GV-BW-HW-WCB
584	G2105	BODY ASSY WITH WEDGE 3-300 GV	3-C300-GV-FL-HW-WCB
585	G2106	BODY ASSY WITH WEDGE 4-150 GV	4-C150-GV-BW-HW-WCB
586	G2107	BODY ASSY WITH WEDGE 4-150 GV	4-C150-GV-FL-WCB
587	G2108	BODY ASSY WITH WEDGE 4-300 GV	4-C300-GV-BW-HW-WCB
588	G2109	BODY ASSY WITH WEDGE 4-300 GV	4-C300-GV-FL-HW-WCB
589	G2110	BODY ASSY WITH WEDGE 6-150 GV	6-C150-GV-FL-HW-WCB
590	G2111	BODY ASSY WITH WEDGE 6-150 GV	6-C150-GV-BW-HW-WCB
591	G2114	HUB-E489	4-C300-RV-BW-MO-WCB
592	G2116	TUBE-E352	4-C300-RV-BW-MO-WCB
593	G2117	BUSH-P408	4-C300-RV-BW-HW-CF8M
594	G2118	LEVER-P408	4-C300-RV-BW-HW-CF8M
595	G2119	BUSH (STEM)-P408	4-C300-RV-BW-HW-CF8M
596	G2120	NUT-P408	3-C300-RV-BW-HW-CF8M
597	G2121	BOTTOM PLATE-P408	3-C300-RV-BW-HW-CF8M
598	G2122	RIB-P408	3-C300-RV-BW-HW-CF8M

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
599	G2123	NUT	4" 150 FV WCB
600	G2126	TOP FLANGE	10-C300-GV-BW-HW-WCB
601	G2131	Test Collar Machining	10" 300 RV Test Collar Machining
602	G2132	Test Collar Machining	14" 300 FV Test Collar Machining
603	G2136	DISC -L804	24-C150-FV-BW-WCB
604	G2137	DISC ROUGH-L804	24-C150-FV-BW-WCB
605	G2144	BONNET TOP-L804	24-C150-FV-BW-WCB
606	G2162	COVER TUBE-NG12	22-C300-GV-BW-GO-WCB
607	G2163	CAP PLATE-W004	22-C300-GV-BW-GO-WCB
608	G2163b	CAP PLATE-W004	16/18-C300-GV-BW-GO-WCB
609	G2251	STEM-E495 Extension Spindle	24-C150-GV-GO-WCB
610	G2252	Seat Ring Lapping	upto 4"
611	G2253	Sleeve ABG 25.1	10-C300-RV-WCB
612	G2255	Body Machining	10-C400-RV-BW-CF8M
613	G2256	Body Machining	2-C600-GV-BW-CF8M
614	G2261	Body Machining	12-C300-RV-BW-MO-WCB
615	G2261a	Body Machining	12-C300-RV-BW-MO-CF8M
616	G2264	Seat Ring Final (stellite)	12-C300-RV-BW-MO-WCB
617	G2264a	Seat Ring Final	12-C300-RV-BW-MO-CF8M
618	G2264b	SEAT RING Final Stellite	12-C300-SV-FL-GO-CF8M
619	G2265	Seat Ring Rough	12-C300-RV-BW-MO-WCB
620	G2267	Disc Rough	12-C300-RV-BW-GO-WCB
621	G2268	Disc Nut	12-C300-RV-BW-MO-WCB
622	G2268a	Disc Nut	12-C300-RV-BW-MO-CF8M
623	G2269	Back Seat Final	12-C300-RV-BW-MO-WCB
624	G2269a	BACK SEAT BUSH-P582	12-C300-SV-FL-GO-CF8M
625	G2270	Back Seat Rough	12-C300-RV-BW-MO-WCB
626	G2271	Disk Guide Rod	12-C300-RV-BW-MO-WCB
627	G2273	Gland Follower	12-C300-RV-BW-MO-WCB
628	G2274	Stopper	12-C300-RV-BW-MO-WCB
629	G2275	Sunk Key	12-C300-RV-BW-MO-WCB
630	G2277	Body Machining	6-C150-GV-BW-HW-CF8M-ND
631	G2278	Yoke Machining	6-C150-GV-BW-HW/MO-CF8M-ND
632	G2292	Seat Ring Rough	10-C300-RV-CF8M
633	G2292a	Seat Ring Rough	10-C300-RV-WCB
634	G2299	Top Flange	16-C150-GV-WCB
635	G2300	Seat Ring Final Stellite	20-C150-FV-BW-WCB
636	G2301	Flap Final Stellite	16-C300-FV-WCB
637	G2359	Disk Nut	14-C600-RV-BW-WCB/WCC/WC9/C12A
638	G2360	Disk Nut	16-C300-RV-BW-WCB/WCC/WC9/C12A
639	G2361	Disk Nut	16-C600-RV-BW-WCB/WCC/WC9/C12A
640	G2362	Seat Ring Final	14-C600-RV-BW-WCB/WCC/WC9
641	G2362a	Seat Ring Final	14-C600-RV-BW-MO-C12A
642	G2364	Seat Ring Final	16-C600-RV-BW-WCB/WCC/WC9
643	G2365	Stem	14-C600-RV-MO-WCC
644	G2365a	Stem with Hard Chrome plating	14-C600-RV-BW-MO-C12A

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
645	G2367	Stem	16-C600-RV-BW-MO-WCC
646	G2368	Gland Flange	14-C600-RV-BW-MO-WCC
647	G2369	Gland Flange	16-C300-RV-BW-MO-WCB
648	G2370	Gland Flange	16-C600-RV-BW-MO-WCC
649	G2371	Key	14-C600-RV-BW-MO-WCC
650	G2372	Key	16-C600-RV-BW-MO-WCC
651	G2374	Stopper	16-C300-RV-BW-MO-WCB
652	G2375	Stopper	16-C600-RV-BW-MO-WCC
653	G2376	Sunk Key	16-C300-RV-BW-MO-WCB
654	G2377	Yoke Machining	14-C600-RV-BW-MO-WCC
655	G2377a	Yoke Machining	14-C600-RV-BW-MO-C12A
656	G2386	Locking Plate	Gate Assembly
657	G2388	Gasket Shield	Gate Assembly
658	G2388a	Gasket Shield	22" - Gate Assembly
659	G2390	Bolt M10	Gate Assembly
660	G2391	Ball Dia 20	Gate Assembly
661	G2392	Washer Plate PL 5; D40/D18	Gate Assembly
662	G2393	Gasket Holder	Gate Assembly
663	G2393a	Gasket Holder	22" - Gate Assembly
664	G2394	Plate 10X40X75	Gate Assembly
665	G2397	Body Machining excludes Hinge pin	24-C150-FV-FL-WCB
666	G2397a	Body Machining excludes Hinge pin	24-C150-FV-FL-CF8M
667	G2398	Flap Final	24-C150-FV-FL-WCB
668	G2398a	Flap Final	24-C150-FV-FL-CF8M
669	G2398b	Final flap stellited	24-C150-FV-FL-CF8M
670	G2402	SCREW PLUG M56X2-5107	24-C150-FV-FL-WCB
671	G2404	RIGHT/LEFT SIDE LUG	24-C150-FV-FL-WCB
672	G2404a	RIGHT/LEFT SIDE LUG	24-C150-FV-FL-CF8M
673	G2405	SEATRING ROUGH-NH50	14-C600-RV-WCB
674	G2405a	SEATRING ROUGH-NH60	14-C600-RV-BW-MO-C12A
675	G2435	LOCK HOOK-W789	20-C300-GV-BW-GO-WCB
676	G2437	Body Machining	10-C300-GV-FL NC
677	G2438	Disk Rough	12-C300-SV-WCB
678	G2438a	DISK ROUGH-P639	12-C300-SV-FL-GO-CF8M
679	G2440	Seat Ring Rough	16-C600-RV-WCB
680	G2449	Disc Nut	16-C150-FV-FL-WCB
681	G2450	Body Machining	26-C300-GV-BW-WCB
682	G2451	Wedge Rough	26-C300-GV-BW-WCB
683	G2451a	Wedge Slitting - before welding	26-C300-GV-BW-WCB
684	G2452	Bonnet Machining	26-C300-GV-BW-WCB
685	G2453	Yoke Machining	26-C300-GV-BW-WCB
686	G2454	Lantern Ring	10-C300-RV-CF8M
687	G2456	Body Machining	14-C300-FV-BW-CF8M
688	G2461	Body Machining	16-C150-FV-FL-WCB
689	G2463	ARM ASSY	16-C150-FV-FL-WCB
690	G2466	Hinge Pin	16-C150-FV-FL-WCB

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
691	G2467	Bottom Flange	12-C150-GV-WCB
692	G2468	Cover	14-C300-FV-BW-CF8M
693	G2472	Yoke Machining	32-C150-GV-MO-WCB
694	G2473	Body Machining	32-C150-GV-BW-WCB
695	G2474	Nut	24-C150-FV-WCB
696	G2488	Disk Rough Stellite	2-C300-RV-CF8M
697	G2489	Lock Plate	4-C300-RV-CF8M
698	G2490	Seat Ring Rough	26-C300-GV-BW-WCB
699	G2491	Seat Ring Rough	32-C150-GV-BW-WCB
700	G2492	Disk Rough	2-C300-SV-WC6
701	G2497	SCREW PLUG M56X3-U581	24-C150-FV-FL-CF8M
702	G2504	3/4" or 1" NPT(F)/(M) SCREWED PIE	FB
703	G2508	Body Machining	14-C150-FV-FL
704	G2509	Lug Machining	16-C150-FV-FL-WCB
705	G2511	Bonnet Machining	32-C150-GV WCB
706	G2513	Cover Machining	14-C150-FV-FL-WCB
707	G2515	Flap Rough	14-C150-FV-FL-WCB
708	G2516	Flap Rough	18-C150-FV-FL-WCB
709	G2519	Nut	24-C150-FV-FL-CF8M
710	G2521	Seat Ring final	26-C300-GV-BW-WCB
711	G2523	Seat Ring Rough	18-C150-FV-FL-WCB
712	G2524	Seat Ring Rough	14-C150-FV-FL-WCB
713	G2525	Seat Ring final	32-C150-GV-WCB
714	G2463a	ARM Assembly - CF8	16-C150-FV-FL (Z089S182)
715	G2548	Seat Ring Final	2-C300-FV-BW-WC9
716	G2550a	ARM-CF8	14-C150-FV-FL (Z082S182)
717	G2551a	FLAP-CF8	14-C150-FV-FL (Z082S182)
718	G2552a	Seat Ring Final -CF8	14-C150-FV-FL (Z082S182)
719	G2550b	ARM	14-C150-FV-FL-WCB
720	G2551b	FLAP Final	14-C150-FV-FL-WCB
721	G2552b	Seat Ring Final	14-C150-FV-FL-WCB
722	G2555	Arm Assembly	18-C150-FV-FL-WCB
723	G2555a	Arm Assembly	18-C150-FV-CF8
724	G2557	Seat Ring Final	18-C150-FV-FL-WCB
725	G2557a	Seat Ring Final	18-C150-FV-CF8
726	G2559	Disk Final	14-C600-SV-FL-GO-WCC
727	G2560	Disk Rough	14-C600-SV-FL-GO-WCC
728	G2563	LANTERN RING	32-C150-GV-BW-MO-WCB
729	G2564	BYPASS TUBE-NH97	26-C300-GV-BW-MO-WCB-BP
730	G2567	LANTERN RING-NG07	26-C300-GV-BW-MO-WCB-SG
731	G2568	STEM (DO.START)-NG07	26-C300-GV-BW-MO-WCB
732	G2497a	SCREW PLUG (B7)	24-C150-FV-FL-WCB
733	G2581	BODY - P606	12-C300-SV-FL-WCB
734	G2584	Body Machining	5-C300-RV/SV-BW-WCB/WC9
735	G2585	INTERMEDIATE FL.-W200	22-C300-GV-BW-MO-WCB
736	G2586	TRACER U-CLAMP NB 10	Oil Skid

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
737	G2587	1" SW COUPLING	Oil Skid
738	G2588	SH 3.15X20X1000	Oil Skid
739	G2583	BODY-6-C600-FV-FL-WCC-Z103	6-C600-FV-FL-WCC
740	G2572	EYE BOLT	16-C600-RV-BW-MO-WCC
741	G2562	GLAND FLANGE	32-C150-GV-BW-MO-WCB
742	G2603a	GUIDE BRACKET-E513	14-C150-GV-FL (Extension Spindle)
743	G2603b	GUIDE BRACKET-E518	12-C150-GV-FL (Extension Spindle)
744	G2604a	LOCK PLATE-E513	14-C150-GV-FL (Extension Spindle)
745	G2604b	LOCK PLATE-E518	12-C150-GV-FL (Extension Spindle)
746	G2612	Body Machining	12-C300-SV-FL-GO-CF8M
747	G2613	Parting of PIPE DIA 457 X 42 X 6000	18-C300-GV-BW-GO-C12A
748	G2614	Parting of PIPE ØD 508 X 80 X 6000	18-C300-RV-BW-MO-C12A
749	G2615	Parting of PIPE DIA 406.4 X 42 X 6000	14-C300-GV-BW-MO-C12A
750	G2616	LOCK PLATE	16-C300-GV-BW-GO-WCB
751	G2617	GLAND FOLLOWER-N827	32-C150-GV-BW-MO-WCB-SG
752	G83	Body Machining	2-C600-GV-FL-WCB/WCC/WC6/WC9
753	G80	Body Machining	2-C600-GV-FL-CF8M/CF8
754	G44	Body Machining	2-1/2-C300-FV-BW-WCB/WCC
755	G43	Body Machining	2-1/2-C300-FV-BW-CF8M/CF8
756	G102	Body Machining	3-C300-FV-BW-WCB/WCC/WC6/WC9
757	G99	Body Machining	3-C300-FV-BW-CF8M/CF8
758	G176	Body Machining	6-C150-GV-FL-CF8C/CF8/CF8M
759	G434	Body Machining	6-C300-RV-BW-WCB/WCC/WC6/WC9
760	G430	Body Machining	6-C300-RV-BW-CF8/CF8M
761	G431	Body Machining	6-C300-RV-FL-CF8M/CF8
762	G435	Body Machining	6-C300-SV-FL-WCB/WCC/WC6/WC9
763	G210c	Body Machining	8-C300-GV-FL-WCB/WCC NC
764	G210a	Body Machining	8-C300-GV-FL-WCB/WCC/WC6/WC9
765	G203a	Body Machining	8-C300-GV-FL-CF8M/CF8
766	G461	Body Machining	8-C600-GV-FL-WCB/WCC/WC6/WC9
767	G443	Body Machining	8-C150-FV-FL-WCB/WCC
768	G453	Body Machining	8-C300-FV-BW-WCB/WCC/WC6/WC9
769	G424	Body Machining	10-C150-GV-BW CF8/CF8M
770	G11a	Body Machining	10-C300-GV FL WCB/WCC
771	G1876	Body Machining	10-C600-GV-FL-WCB/WC9
772	G2431	BODY MACHINING	10-C300-FV-FL-CF8/CF8M
773	G16a	Body Machining	12-C150-GV-FL WCB/WCC NC Body
774	G15a	Body Machining	12-C150-GV-FL-CF8M/CF8
775	G25c	Body Machining	12-C300-GV-FL-WCB-NC
776	G25a	Body Machining	12-C300-GV-FL WCB/WCC
777	G2350	Body Machining	14-C600-RV-BW-WCB/WCC/WC9
778	G2558	Body Machining	14-C600-SV-FL-GO-WCC
779	G1998	Body Machining	16-300-WCB-BW-FV/SPL
780	G42a	Body Machining	18-C150-GV-BW WCB/WCC
781	G2553	BODY	18-C150-FV-FL-WCB
782	G266	Wedge Rough Machining	2-C600-GV-WCC/WCB/WC9/WC6

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
783	G264	Wedge Rough Machining	2-C600-GV-CF8M/CF8
784	G294	Wedge Rough Machining	4-C300-GV-WCB/WCC/WC9/WC6
785	G290	Wedge Rough Machining	4-C300-GV-CF8M/CF8
786	G296	Wedge Rough Machining	4-C600-GV-WCB/WCC/WC9/WC6
787	G296a	Wedge Rough Machining	4-C600-GV-WCB-CF8M
788	G471a	WEDGE (ROUGH)-CF8	6-C600-GV-FL-HO (F514G178L109S132)
789	G1880a	Wedge - CF8	10-C600-GV-FL-GO-SG (F894L106S132)
790	G232	Wedge Rough Machining	12-C150-GV-CF8M/CF8
791	G240b	Wedge Rough Machining	12-C300-GV-WCB/WCC/WC9 NC
792	G240	Wedge Rough Machining	12-C300-GV-WCB/WCC/WC6/WC9
793	G1889	Wedge Rough Machining	12-C600-GV-BW-GO-WCB/WCC
794	G244	Wedge Rough Machining	14-C150-GV-WCB/WCC
795	G247	Wedge Rough Machining	14-C300-GV-WCB/WCC/WC6/WC9
796	G248	Wedge Rough Machining	16-C150-GV-WCB/WCC
797	G250	Wedge Rough Machining	16-C300-GV-WCB/WCC/WC6/WC9
798	G251	Wedge Rough Machining	18-C150-GV-WCB/WCC
799	G1907	Wedge Rough Machining	20-C150-GV-BW-MO-WCB-BP
800	G1914	Wedge Rough Machining	20-C300-GV-BW-GO-WCB-BP
801	G271	Wedge Slitting	3-C150-GV-WCB/WCC/WC9/WC6
802	G269	Wedge Slitting	3-C150-GV-CF8M/CF8
803	G279	Wedge Slitting	3-C300-GV-WCB/WCC/WC9/WC6
804	G274	Wedge Slitting	3-C300-GV-CF8/CF8M
805	G2302a	Wedge Slitting - before welding	3-C600-GV-CF8M
806	G281	Wedge Slitting	4-C150-GV-CF8M/CF8
807	G289	Wedge Slitting	4-C300-GV CF8/CF8M
808	G296c	Wedge Slitting - before welding	4-C600-GV-WCB-CF8M
809	G301	Wedge Slitting	6-C150-GV-WCB/WCC/WC9/WC6
810	G298	Wedge Slitting	6-C150-GV-CF8M/CF8
811	G308	Wedge Slitting	6-C300-GV-WCB/WCC/WC9/WC6
812	G304	Wedge Slitting	6-C300-GV-CF8M/CF8
813	G471b	Wedge Slitting - before welding	6-C600-GV-WCB/WCC/WC9/WC6
814	G471c	Wedge Slitting - before welding	6-C600-GV-CF8
815	G476	Wedge Slitting	8-C150-GV-WCB/WCC
816	G472	Wedge Slitting	8-C150-GV-CF8M/CF8
817	G310	Wedge Slitting	8-C300-GV-WCB/WCC/WC9/WC6
818	G312	Wedge Slitting	8-C300-GV-CF8/CF8M
819	G478a	Wedge Slitting - before welding	8-C600-GV-WCB/WCC/WC9/WC6
820	G465	Wedge Slitting	10-C150-GV-WCB/WCC/WC9/WC6
821	G464	Wedge Slitting	10-C150-GV-CF8/CF8M
822	G1880b	Wedge Slitting - before welding	10-C600-GV-FL-MO-WCB/WCC/WC9
823	G1880c	Wedge Slitting - before welding	10-C600-GV-CF8
824	G240c	Wedge Slitting - after welding	12-C300-GV-WCB/WCC/WC9 NC
825	G239	Wedge Slitting	12-C300-GV-WCB/WCC/WC6/WC9
826	G1889a	Wedge Slitting - before welding	12-C600-GV-BW-GO-WCB/WCC
827	G1884a	Wedge Slitting - before welding	12-C600-GV-CF8
828	G244a	Wedge Slitting - after welding	14-C150-GV-WCB/WCC

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
829	G248a	Wedge Slitting - after welding	16-C150-GV-WCB/WCC
830	G250a	Wedge Slitting - before welding	16-C300-GV-WCB/WCC/WC6/WC9
831	G251a	Wedge Slitting - after welding	18-C150-GV-WCB/WCC
832	G220	Bonnet Machining	16-C150-GV-WCB/WCC
833	G2152	Bonnet Machining	22-C300-GV-BW-GO-WCB
834	G2396	Yoke Machining	3-C600-GV-HW-CF8M
835	G402	Yoke Machining	4-C600-GV-HW-WCB/WCC/WC9/WC6
836	G402a	Yoke Machining	4-C600-GV-HW-WCB-CF8M
837	G1771	Yoke Cover	6" 600 GV WCB
838	G491	Yoke Rough	6-C300-RV-MO-WCB/WCC/WC9/WC6
839	G486	Yoke Rough	6-C300-RV-MO-CF8M/CF8
840	G509	Yoke Rough	8-C300SPL-RV-MO-WCB/WCC
841	G505	Yoke Rough	8-C300-RV-MO-CF8M/CF8
842	G484	Yoke Machining	10-C150-GV-HW-WCB/WCC/WC9/WC6
843	G331	Yoke Machining	16-C150-GV-MO-WCB/WCC
844	G1915	Yoke Machining	20-C300-GV-BW-WCB
845	G1922	Yoke Machining	24-C150-GV-BW-WCB
846	G1464	STEM	6-C300-RV/SV-CF8M
847	G2263	Stem	12-C300-RV-BW-MO-WCB
848	G2263a	Stem	12-C300-RV-BW-MO-CF8M
849	G2306	Stem	2.5-C1500-GLV/GNV-HO/MO-WCC
850	G2307b	Stem	3-C1500-GLV/GNV-BW-HO/MO-WCB
851	G2307	Stem	4-C1500-GLV/GNV-BW-HO/MO-WCB
852	G2346	Stem Machining	5-C1500-GLV-BW-MO-WC9
853	G612	ARM ASSY-Z014	2-C300-FV-BW-CF8
854	G614	ARM ASSY	2-C300-FV-FL-WCB/WC6/WC9
855	G619	ARM ASSY-5152	3-C300-FV-FL-WCB/WC9
856	G618	ARM ASSY-Z015	3-C300-FV-FL-CF8
857	G607	ARM ASSY-Z017	10-C300-FV-BW-WCB
858	G606	ARM ASSY-ZO43	10-C300-FV-BW-CF8M
859	G1895	ARM ASSY-Z022	16-300SPL-WCB-BW-FV
860	G2423	ARM ASSY-5126	24-C150 FV FL WCB
861	G848	COVER	2-C150-FV-WCB
862	G847	COVER	2-C150-FV-CF8/CF8M
863	G2554	COVER	18-C150-FV-FL-WCB
864	G1972	LUG-Z023	14-300-WCB-BW-FV/WC9
865	G1899	FLAP ROUGH	20-150-WCB-BW-FV
866	G2464a	FLAP-CF8	16-C150-FV-FL (Z089S182)
867	G2556	FLAP Final	18-C150-FV-FL-WCB
868	G2556a	Flap Final	18-C150-FV-CF8
869	G1271	Seat Ring Final	2-C600-GV-FL-HW-WCB
870	G1270	Seat Ring Final	2-C600-GV-FL-HW-CF8M
871	G1257	Seat Ring Final	2-C150-FV-FL-CF8
872	G1292	Seat Ring Final	3-C600-GV-BW-MO-WC6/CF8M
873	G1293	Seat Ring Final	3-C600-GV-RTJ-HW-WCB
874	G1272	Seat Ring Final Stellited	3-C150-FV-FL-CF8M

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
875	G1273	Seat Ring Final	3-C150-FV-FL-CF8M
876	G1318	Seat Ring Final	4-C600-GV-BW-HW-WC6
877	G1319	Seat Ring Final	4-C600-GV-BW-HW-WCC
878	G1318a	Seat Ring Final	4-C600-GV-BW-HW-CF8M
879	G1316	Seat Ring Final Stellite	4-C300-RV-BW-MO-WCB
880	G1313	Seat Ring Final	4-C300-RV-BW-MO-CF8M
881	G1314	Seat Ring Final Stellite	4-C300-RV-BW-MO-CF8M
882	G1317	Seat Ring Final	4-C300-SV-BW-MO-WCB
883	G1294	Seat Ring Final Stellite	4-C150-FV-CF8/CF8M
884	G1303	Seat Ring Final	4-C300-FV-BW-CF8
885	G1304	Seat Ring Final Stellite	4-C300-FV-BW-CF8M
886	G1306	Seat Ring Final	4-C300-FV-FL-WCB
887	G1307	Seat Ring Final Stellite	4-C300-FV-FL-WCB
888	G1346	Seat Ring Final	6-C600-GV-BW-HW-WCC
889	G1346a	SEAT RING Final -CF8	6-C600-GV-FL-HO (F514G178L109S132)
890	G1333	Seat Ring Final	6-C300-FV-BW-WC9
891	G1370	Seat Ring Final	8-C600-GV-BW-GO-WCC
892	G1368	Seat Ring Final	8-C300SPL-RV-BW-WCB
893	G1366	Seat Ring Final	8-C300-SV-FL-HW-CF8
894	G1348	Seat Ring Final Stellite	8-C150-FV-BW-CF8
895	G1350	Seat Ring Final	8-C150-FV-FL-WCB
896	G1351	Seat Ring Final Stellite	8-C150-FV-FL-WCB
897	G1349	Seat Ring Final	8-C150-FV-CF8M/CF8
898	G1361	Seat Ring Final	8-C300-FV-FL-WCB
899	G1223	Seat Ring Final Stellited	10-C300-FV-FL-WCB/CF8M
900	G1240	Seat Ring Final	12-C300-GV-BW-GO-WC9
901	G1249	Seat Ring Final	14-C300-GV-FL-MO-WCB
902	G2363	Seat Ring Final	16-C300-RV-BW-WCB/WCC/WC9
903	G2033	Seat Ring Final	20-C150-GV-FL-GO-WCB-BP
904	G2051	Seat Ring Final Stellite	20-C300-GV-FL-GO-WCB/WC9
905	G2400	Seat Ring Final	24-C150-FV-FL-WCB
906	G2400a	Seat Ring Final	24-C150-FV-FL-CF8M
907	G1682	Back Seat Rough	2-C150-GV-FL-MO-WCB
908	G1682a	Back Seat Rough (F316)	2-C150-GV-FL-MO-WCB
909	G1690	Back Seat Rough	3-C300-RV-BW-HW-WC6
910	G1695	Back Seat Rough	4-C300-GV-FL-HW-WCB
911	G1697	Back Seat Rough	4-C600-GV-BW-HW-WC6
912	G1698	Back Seat Rough	4-C600-GV-BW-HW-WCC/WCB
913	G1698a	Back Seat Rough	4-C600-GV-BW-HW-CF8
914	G1696	Back Seat Rough	4-C300-RV-FL-HW-WCB
915	G1699	Back Seat Rough	6-C150-GV-FL-HW-CF8M
916	G1702	Back Seat Rough	6-C300-GV-BW-HW-WCB/WC9
917	G1703	Back Seat Rough	6-C300-RV-BW-HW-WCB
918	G1705	Back Seat Rough	6-C300-SV-FL-HW-WC6
919	G1708	Back Seat Rough	8-C150-GV-BW-HW-WCB
920	G1709	Back Seat Rough	8-C150-GV-BW-MO-WC9

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
921	G1711	Back Seat Rough	8-C300-GV-BW-MO-WCB
922	G1713	Back Seat Rough	8-C600-GV-BW-GO-WCB/WCC
923	G1979	Back Seat Rough	10-C600-GV-FL-MO-WCB/WC9
924	G1676	Back Seat Rough	12-C300-GV-FL-GO-WC6/NC
925	G1677	Back Seat Rough	14-C150-GV-FL-MO-WCB
926	G658a	Back Seat Rough	14-C600-RV-BW-MO-WCC
927	G1679	Back Seat Rough	16-C150-GV-BW-MO-WCB
928	G662a	Back Seat Final Stellited (F316)	2-C150-GV-BW-HO-WCB
929	G665	Back Seat Final	2-C150-GV-WCB
930	G669	Back Seat Final F6	2-C300-RV-WCB
931	G688	Back Seat Final	4-C150-GV-BW-HW-WC9
932	G689	Back Seat Final F6	4-C150-GV-BW-HW-WCB
933	G687	Back Seat Final	4-C150-GV-BW-HW-CF8M
934	G692	Back Seat Final	4-C150-GV-FL-HW-WCB
935	G696	Back Seat Final	4-C300-RV-BW-MO-CF8
936	G697	Back Seat Final F6	4-C300-RV-FL-HW-WCB
937	G698	Back Seat Final Stellited	4-C300-SV-BW-HW-WCB
938	G704	Back Seat Final Stellited	6-C150-GV-WCB
939	G710	Back Seat Final stellited	6-C150-GV-CF8M
940	G724	Back Seat Final	6-C600-GV-WCC/WCB
941	G743	Back Seat Final	8-C600-GV-WCC/WCB/CF8M
942	G636	Back Seat Final	10-C300-GV-CF8M
943	G645	Back Seat NC	12-C150-GV-FL-HW-WCB
944	G641	Back Seat Final	12-C150-GV-WCB
945	G945	GLAND FLANGE	10-C300-GV-BW-MO-WCB
946	G2029	GLAND FLANGE	20-C150-GV-BW-MO-WCB-BP
947	G1008	Gland Follower	6-C150-GV-WCB
948	G1006	Gland Follower	6-C150-GV-CF8M/CF8
949	G1012	Gland Follower	6-C300-GV-WCB
950	G1011	Gland Follower	6-C300-GV-CF8M
951	G1014	Gland Follower	6-C600-GV-WCB
952	G1013	Gland Follower	6-C300-RV-WCB
953	G1019	Gland Follower	8-C300-GV-WCB
954	G978	Gland Follower	10-C300-GV-WC9
955	G979	Gland Follower	10-C300-GV-WCB
956	G1981	Gland Follower	10-C600-GV-FL-MO-WCB-BP
957	G980	Gland Follower	10-C300-RV-WCB
958	G982	Gland Follower	12-C150-GV-WCB
959	G986	Gland Follower	16-C150-GV-WCB
960	G987	Gland Follower	16-C300-GV-WCB
961	G2048	Gland Follower	20-C300-GV-BW-GO-WCB
962	G2533	Spacer	2/3-C600-GV-FL-HW-WCB
963	G2536	Spacer	2/3-C600-GV-FL-HW-CF8M
964	G2534	Spacer	4-C600-GV-FL-HW-WCB
965	G2541	Spacer	6/300-C150-GV-BW-HW-CF8M
966	G2446	SPACER-N204	6-C150-GV-WCB/CF8M

Valves - List of Items in which additional vendors are required for Job Work

Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
967	G2447	SPACER-N212	6/8-C300-GV-WCB/CF8M
968	G2535	Spacer	6/8-C600-GV-FL-HW-WCB
969	G2532	Spacer	6/8-C300-SV-FL-HW-WCB
970	G2538	Spacer	10/12-C150-GV-BW-HW-WCB
971	G2448	SPACER-N213	10-C300-GV-WCB/CF8M
972	G1987	SPACER-F506	10/12-C600-GV-FL-MO-WCB-BP
973	G2542	Spacer	10/12-C300-RV-BW-MO-WCB
974	G2543	Spacer	12-C150-GV-BW-HW-CF8M
975	G2546	Spacer	12-C300-GV-FL-MO-WCB
976	G2540	Spacer	14/16/18-C150-GV-FL-MO-WCB
977	G2545	Spacer	14-C600-RV-BW-MO-WCC
978	G2529	Spacer	16/18-C300-RV-BW-MO-WCB
979	G2547	Spacer	16-C600-RV-BW-MO-WCC
980	G2038	SPACER-N597	20-C150-GV-BW-MO-WCB-BP
981	G2056	SPACER-U123	20-C300-GV-BW-GO-WCB
982	G2078	SPACER-N705	24-C150-GV-BW-MO-WCB-SG
983	G2537	Spacer	32-C150-GV-BW-GO-WCB-BP
984	G900	Disc Retainer SV	2-C300-SV-CF8
985	G906	Disc Retainer SV	8-C300-SV-WCB/WCC
986	G2088	DISC NUT-0055	10-C300-RV-BW-MO-WCB
987	G2276	Thurst Plate	12-C300-RV-BW-MO-WCB
988	G1076	LANTERN RING	2-C300-GV/RV-WCB/CF8M-SG
989	G1078	LANTERN RING	3-C150-GV-WCB-SG
990	G1080	LANTERN RING	3-C600-GV-WCB-SG
991	G1081	LANTERN RING	4-C150-GV-WC9/WCB-SG
992	G1082	LANTERN RING	4-C300-RV-CF8M/WCB-SG
993	G1084	LANTERN RING	6-C150-GV-CF8M/WCB-SG
994	G1085	LANTERN RING	6-C300-RV-CF8M/WCB-SG
995	G1088	LANTERN RING	8-C300-GV/SV-HW-WCB-SG
996	G1984a	LANTERN RING-F707	12-C600-GV-BW-GO-WCC-SG
997	G1072	LANTERN RING	14-C150-GV-WCB-SG
998	G1074	LANTERN RING	18-C150-GV-WCB-SG
999	G2031	LANTERN RING-N370	20-C150-GV-BW-MO-WCB-SG
1000	G1036	HUB-K011	3-C300-GV-FL-HW-WCB
1001	G1207	RING OF INDEX-K334	3-C300-RV-FL-HW-WCB
1002	G918	END COVER-S833	4-C300-GV-FL-HW-WCB
1003	G1117	LOCK PLATE	6-C150-GV-BW-HW-CF8M
1004	G920	END COVER-S836	6-C300-GV-BW-HW-WCB
1005	G1044	INDICATOR DISC-N248	6-C300-GV-BW-HW-WCB
1006	G1032	HAND WHEEL-K650	6-C300-SV-BW-HW-CF8M
1007	G1097	LOCK BUSH-N205	8-C150-GV-BW-HW-WCB
1008	G1120	LOCK PLATE	8-C150-GV-BW-HW-WCB
1009	G1205	RIB-K164	8-C150-GV-BW-HW-WCB
1010	G1484	STRIKER PLATE-K011	8-C150-GV-BW-HW-WCB
1011	G923	ENDCOVER-S837	8-C300-GV-BW-HW-WC9
1012	G1033	HAND WHEEL-K652	8-C600-GV-RTJ-HW-WC6

Valves - List of Items in which additional vendors are required for Job Work

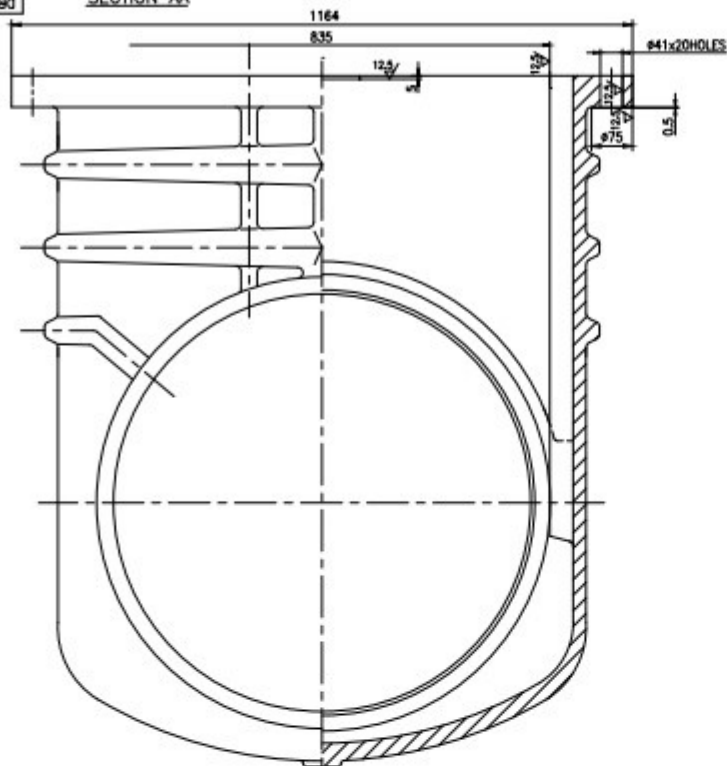
Annexure - I

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
1013	G749	BASE PLATE-K932	8-C300-RV-BW-HW-WCB
1014	G1123	LUG-M368	8-C300-RV-BW-HW-WCB
1015	G599	ADAPTOR-STEEL HO Valve	8" 300 RV WCB
1016	G1203	RIB-K011	10-C150-GV-BW-HW-WCB
1017	G1481	STRIKER PLATE-K020	10-C300-GV-BW-HW-WCB
1018	G1038	INDICATOR DISC-1084	10-C300-RV-BW-GO-WCB
1019	G1204	RIB-K163	12-C150-GV-BW-HW-WCB
1020	G754	BOTTOM PLATE-K011	12-C150-GV-BW-HW-WCB-SG
1021	G1093	LEVER PLATE-K325	12-C300-GV-BW-GO-WCB
1022	G1031	HAND WHEEL-K651	12-C300-GV-BW-HW-WCB
1023	G1996	CAP PLATE-W002	14-C150-GV-FL-MO-WCB
1024	G1138	PIN-K325	16-C300-GV-BW-GO-WCB
1025	G1095a	LOCK BUSH-N954	24-C150-GV-BW-GO-WCB-BP
1026	G1766	Tube	16-C150-GV-FL-MO-WCB
1027	G1517	TUBE	16-C300-GV-BW-MO-WCB
1028	G793	CAP TUBE-N616	16-C300-GV-FL-MO-WC9
1029	G2113	HW FLANGE-E489	4-C300-RV-BW-MO-WCB
1030	G1539	WEB-E465	10-C300-GV-BW-HW-WCB
1031	G746	BALL-E086	12-C150-GV-FL-HW-WCB
1032	G831	CONNECTING PIN-E101	12-C150-GV-FL-HW-WCB
1033	G1026	GUIDE BUSH-E196	12-C150-GV-FL-HW-WCB
1034	G1385	SPINDLE-E209	12-C150-GV-FL-HW-WCB
1035	G1132a	PIN-E516	12-C150-GV-FL (Extension Spindle)
1036	G1868b	PIN-E518	12-C150-GV-FL (Extension Spindle)
1037	G1494	THRUST BASE-E424	12-C300-GV-BW-MO-WC9
1038	G532a	SLEEVE-E513	14-C150-GV-FL (Extension Spindle)
1039	G1134a	PIN-E513	14-C150-GV-FL (Extension Spindle)
1040	G1495	THRUST BASE-E478	16-C150-GV-FL-MO-WCB
1041	G1762	Stiffner	16-C150-GV-FL-MO-WCB
1042	G1763	Bottom Flange	16-C150-GV-FL-MO-WCB
1043	G1371	SPIN EXTN FLANGE-E324	16-C300-GV-BW-GO-WCB
1044	G1373	SPIN EXTN TUBE-E324	16-C300-GV-BW-GO-WCB
1045	G746a	BALL-E512	Extension Spindle
1046	G773a	BUSH-E512	Extension Spindle
1047	G831a	CONNECTING PIN-E512	Extension Spindle
1048	G831b	CONNECTING PIN-E513	Extension Spindle
1049	G1066a	JOINT END-E512	Extension Spindle
1050	G1868a	PIN-E512	Extension Spindle
1051	G1067a	JOINT END-E512	Extension Spindle
1052	G766	BRG RETAINER-1587	2-C300-GV-FL-HW-WCB-SG
1053	G772	BRG RETAINER-F508	8-C600-GV-RTJ-HW-WC6
1054	G1193	RETAINER-F508	8-C600-GV-WCB
1055	G803	COMPANION FLANGE-K014	14-C150-GV-FL-GO-WCB
1056	G803a	COMPANION FLANGE-K006	16-C150-GV-FL-MO-WCB
1057	G829	CONN FLANGE	8-C300-RV-FL-MO-WCB/CF8M
1058	G2071	INTERMEDIATE FLG-B651	24-C150-GV-BW-MO-WCB

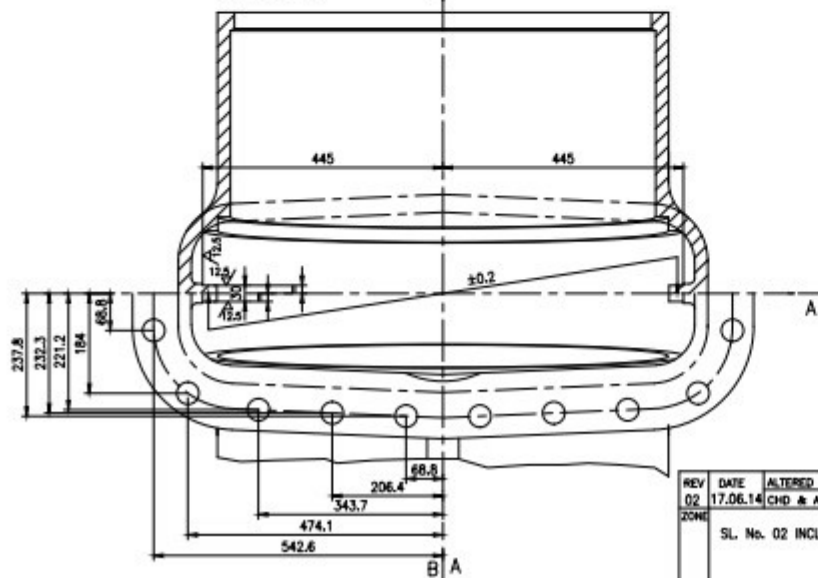
Valves - List of Items in which additional vendors are required for Job Work**Annexure - I**

S.No	Gr. No	Job/Component Description	Description of Valve/ Product (Used in)
1059	G1788a	NUT-5179 / NUT-5175	2-C150/C300-FV-BW-WCB
1060	G1799a	NUT-Z015	3-C300-FV-FL-CF8
1061	G938a	NUT-Z019	10-C300-FV-FL-WCB
1062	G2003	NUT-Z021	16-300SPL-WCB-BW-FV

SECTION AA

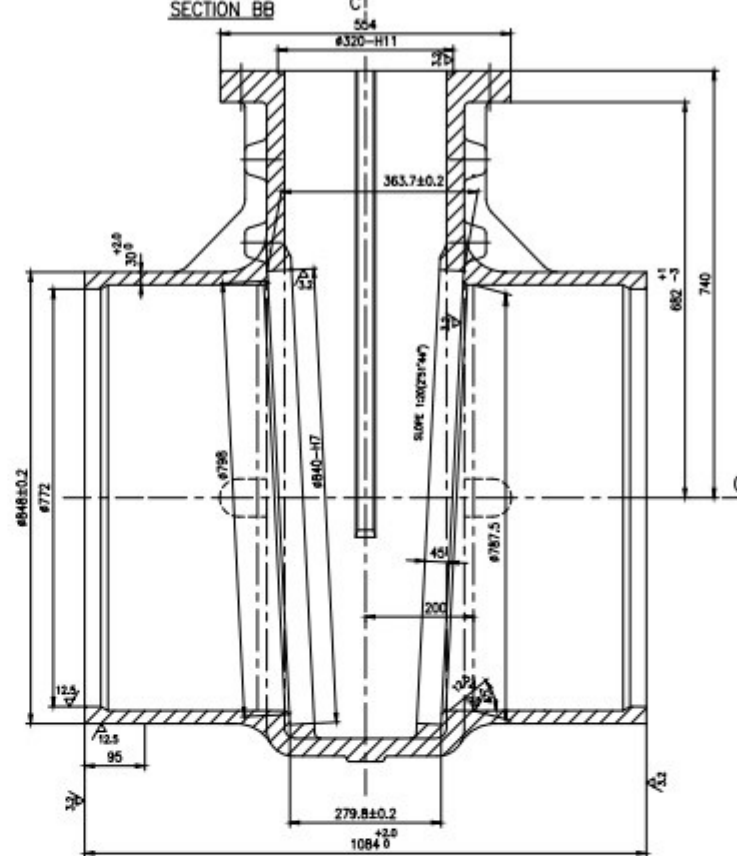


SECTION CC



ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP

SECTION BB



#320-H11	+0.360
	0
#840-H7	+0.090
	0

NOTE:

* 01 . QUALITY PROCEDURE AS APPLICABLE FOR SPECIAL CLASS VALVE

* Q2	-	92203214	SA217 WC9 ATTEST	NT	20	1353	1505	2.V.NHB4.08327/1 932032920000	00
Q1	-	92201219	SA216 WCB ATTEST	NR	10	1353	1505	2.V.NB29.08327/1 931101420000	00
SL	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREAT	SHAP SORT	NET WT	ORDRS RT	DRAWING NO COMPONENT CODE	ITEM

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LTD.
UNIT: HIGH PRESSURE BOILER PLANT,
TIRUCHIRAPPALLI-620014.

	NAME	SIGN	DATE
DRN	V. BAIRAWAN		18.01.01
CHD	R.L. NARAYANAN		19.01.01
APND	M. RAJAWI NAB		19.01.01

DEPT. VL		SCALE		WEIGHT (KG.)		REFERENCE INFORMATION	
CODE 320		N T S		-		CAD REF. NO: C20B327	
TITLE				CARD CODE		DRAWING NO.	
BODY				U 01		2-V-0000-08327	
32"/150CLASS							

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of

REV 03	DATE 20.OBL.14	ALTERED CHD & APPD	A.MARIMUTHU MS & SSK
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NOTE- 01 INCLUDED

REV	DATE	ALTERED	R.L
01	07.09.01	CHD & APPD	MRK
ZONE			

DIM. 810 INCLUDED
DCN NO. HM 0494

REV	DATE	ALTERED	N.RAMESH
02	17.06.14	CHD & APPD	SSK & KR
ZONE			

SL. No. 02 INCLUDED



SECTION - CC



ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP



NOTE:

01. BREAK ALL SHARP CORNERS.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TRICHUPALLI-620014.		DRN M.SRINIVASAN	SIGN 	DATE 24.03.08	NO. OF VAR.
365-120		APPD		CHD P. BOOMASTHAN		24.03.08	
				APFD M. RAJANUNNI		24.03.08	
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS			NO. OF REV.
CODE 320		 NTS	REF TABLE	CAD :C214236			
TITLE WEDGE ROUGH (22"-C300)			CARD CODE U 01	DRAWING NO. 2-V-0000-14236			REV 01

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REV	DATE	ALTERED : R.P.SINGH
01	10.11.17	CHD & APPD : SSK & KRS
ZONE	DIMENSIONS @602 WAS @610	

WEDGE ROUGH
(22°-c300)

CARD CODE	DRAWING NO.	REV
U 01	2-V-0000-14236	01