

BHEL :: BAP :: RANIPET
PURCHASE DEPARTMENT
ANNEXURE-A (Technical Specification)

NOTICE INVITING TENDER

OPEN TENDER REF: PUR/UTY/FASTENERS /91;DT: 10.09.14

Sealed Bids(Two Part Basis) are invited from prospective suppliers (Satisfying Qualification Criteria)for supply of Fasteners as per Specification, Standards and Quantities listed below.

LAST DATE FOR SUBMISSION OF BID: 10.10.2014 BEFORE 14.00 HRS IST

BID OPENING DATE: 10.10.2014 AT 14:30 HRS IST

Sl No.	Item Description	UNIT	QTY
1	GAL. HEX SCR M10X50 GRA8.8 IS1364	NO	20000
2	STUD'A'M10X35 GR6.8 IS1862/75	NO	650
3	STUD ATO WLD M10X45 BPS 41116	NO	650
4	STUD ATOWLD M12X30 BPS-41116	NO	6600
5	STUD ATO WLD M16X40 BPS-41116	NO	6600
6	STUD ATO WLD RWBO M16X65 -BPS 41116	NO	1300
7	CHS SLT SCREW M4X10 GR4.8 IS 1366	NO	6600
8	CHS SLT SCREW M4X55 GR4.8 IS 1366	NO	650
9	CHS SLT SCREW M6X20 GR4.8 IS 1366	NO	10000
10	SOC CAP SCREW M6X16 GR8.8 IS 2269	NO	650
11	CSK SLT SCREW M4X10 GR4.8 IS 1365	NO	650
12	CSK SLT SCREW M6X12 GR4.8 IS 1365	NO	1000
13	CSK SLT SCREW M6X20 GR4.8 IS 1365	NO	1000
14	CSK SLT SCREW M12X50 GR4.8 IS 1365	NO	650
15	GRUB SCREW SLT C M6X16 22H IS 2388	NO	500
16	GRUB SCREW SLT C M8X20 22H IS 2388	NO	500
17	GRUB SCREW SLT C M10X16 22H IS 2388	NO	650
18	GRUB SCREW SLT C M10X20 22H IS 2388	NO	3300
19	GRUB SCREW SLT C M10X25 22H IS 2388	NO	400
20	HEX SOC HEAD CAP SCREW M 6 X 60 AS PER IS 2269	NO	1000
21	HEX.SOC.HD.SCREW M8X55GR12.9,IS2269	NO	2500
22	SCRU SOC HD CAP 12.9 M10X20 IS 2269	NO	2600
23	SCRU SOC HD CAP 12.9 M10X25 IS2269/95	NO	1300
24	SCRU SOC HD CAP 12.9 M10X30 IS2269/95	NO	2600
25	SOC HD CAP SCREW M10X45 GR10.9-IS 2269	NO	1300
26	SOC.HD.CAP.SCREWM10X50GR10.9 IS2269	NO	2000
27	SCRU SOC HD CAP 12.9 M12X25,IS2269	NO	300
28	SCRU SOC HD CAP 12.9 M12X30 IS2269/95	NO	1600
29	SCRU SOC HD CAP 12.9 M12X45,IS2269	NO	1600
30	SCREW SOC HD CAP M12X55 12.9,IS2269	NO	300
31	SCRU SOC HD CAP 12.9 M12X60 IS2269/95	NO	400
32	SCREW CAP SOC HEAD M 12 X 65 GR 10.9, IS 2269	NO	1300
33	SCRU SOC HD CAP 12.9 M12X70 IS2269/95	NO	500

34	HEX.SOC.HD.CAP.SCRU M16X55 GR.10.9,IS 2269	NO	300
35	HEX BOLT M20X70 GR6.8 IS 1364/1	NO	650
36	HEX BOLT M30X120 GR6.8 IS 1364/1	NO	400
37	HEX BOLT M8X30 GR4.6 IS 1363/1	NO	1300
38	HEX BOLT M8X40 GR4.6 IS 1363/1	NO	3300
39	HEX BOLT M10X45 GR4.6 IS 1363/1	NO	650
40	HEX BOLT M12X60 GR4.6 IS 1363/1	NO	2000
41	HEX BOLT M12X70 GR4.6 IS 1363/1	NO	650
42	HEX BOLT M16X35 GR4.6 IS 1363/1	NO	3300
43	HEX BOLT M16X40 GR4.6 IS 1363/1	NO	20000
44	HEX BOLT M16X60 GR4.6 IS 1363/1	NO	1000
45	HEX BOLT M20X65 GR4.6 IS 1363/1	NO	1000
46	HEX SCRU M6X10 GR4.6 IS 1363/2	NO	650
47	HEX SCRU M6X25 GR4.6 IS 1363/2	NO	20000
48	HEX SCRU M8X35 GR4.6 IS 1363/2	NO	1000
49	HEX SCRU M8X40 GR4.6 IS 1363/2	NO	1300
50	HEX SCRU M10X16 GR4.6 IS 1363/2	NO	300
51	HEX SCRU M10X45 GR4.6 IS 1363/2	NO	23300
52	HEX SCRU M12X40 GR4.6 IS 1363/2	NO	6600
53	HEX SCRU M12X50 GR4.6 IS 1363/2	NO	30000
54	HEX SCRU M12X60 GR4.6 IS 1363/2	NO	6600
55	HEX SCRU M12X70 GR4.6 IS 1363/2	NO	400
56	HEX SCRU M12X100 GR4.6 IS 1363/2	NO	2000
57	HEX SCRU M16X40 GR4.6 IS 1363/2	NO	10000
58	HEX SCRU M16X60 GR4.6 IS 1363/2	NO	1300
59	HEX SCRU M20X100 GR4.6 IS 1363/2	NO	650
60	HEX BOLT M10X35 GR8.8 IS 1364/1	NO	1300
61	HEX BOLT M12X50 GR8.8 IS 1364/1	NO	2600
62	HEX BOLT M12X55 GR8.8 IS 1364/1	NO	3300
63	HEX BOLT M16X60 GR8.8 IS 1364/1	NO	50000
64	HEX BOLT M16X80 GR8.8 IS 1364/1	NO	1600
65	HEX BOLT M16X100 GR8.8 IS 1364/1	NO	54000
66	HEX BOLT M20X70 GR8.8 IS 1364/1	NO	650
67	HEX BOLT M20X80 GR8.8 IS 1364/1	NO	4000
68	HEX BOLT M20X90 GR8.8 IS 1364/1	NO	650
69	HEX BOLT M20X250 GR8.8 IS 1364/1	NO	300
70	HEX BOLT M24X80 GR8.8 IS 1364/1	NO	300
71	HEX BOLT M24X90 GR8.8 IS 1364/1	NO	300
72	HEX BOLT M30X120 GR8.8 IS 1364/1	NO	650
73	HEX BOLT M33X90 GR8.8 IS 1364/1	NO	300
74	HEX BOLT M39X120 GR8.8 IS 1364/1	NO	300
75	HEX SCREW M6X20 GR.8.8 IS 1364/2	NO	650
76	HEX SCREW M6X25 GR.8.8 IS 1364/2	NO	1300
77	HEX SCREW M8X35 GR.8.8 IS 1364/2	NO	1000
78	HEX SCREW M8X40 GR.8.8 IS 1364/2	NO	4000

79	HEX SCREW M8X60 GR.8.8 IS 1364/2	NO	300
80	HEX SCREW M10X35 GR.8.8 IS 1364/2	NO	300
81	HEX SCREW M12X50 GR.8.8 IS 1364/2	NO	3300
82	HEX SCREW M16X25 GR.8.8 IS 1364/2	NO	3300
83	HEX SCREW M16X70 GR.8.8 IS 1364/2	NO	1300
84	HEX SCREW M20X100 GR.8.8 IS 1364/2	NO	1000
85	HEX BOLT M10X55 GR10.9 IS 1364/1	NO	2300
86	HEX BOLT M12X50 GR10.9 IS 1364/1	NO	650
87	HEX BOLT M16X50 GR10.9 IS 1364/1	NO	650
88	HEX BOLT M16X60 GR10.9 IS 1364/1	NO	2000
89	HEX BOLT M16X100 GR10.9 IS 1364/1	NO	2300
90	HEX BOLT M20X120 GR10.9 IS 1364/1	NO	650
91	HEX SCREW M6X20 GR10.9 IS 1364/2	NO	650
92	HEX SCREW M8X25 GR10.9 IS 1364/2	NO	650
93	HEX SCREW M10X45 GR10.9 IS 1364/2	NO	650
94	HEX SCREW M12X30 GR10.9 IS 1364/2	NO	1000
95	HEX SCREW M12X50 GR10.9 IS 1364/2	NO	300
96	HEX SCREW M16X25 GR10.9 IS 1364/2	NO	2600
97	HEX SCREW M20X50 GR10.9 IS 1364/2	NO	3300
98	HEX SCREW M20X90 GR10.9 IS 1364/2	NO	650
99	HEX SCREW M24X160 GR 10.9 IS1364/2	NO	650
100	SCR&NUT M8X35 C4 IS 1363/2&3	NO	10600
101	SCR&NUT M10X35 C4 IS 1363/2&3	NO	650
102	SCR&NUT M12X30 C4 IS 1363/2&3	NO	3300
103	SCR&NUT M12X40 C4 IS 1363/2&3	NO	86600
104	SCR&NUT M12X50 C4 IS 1363/2&3	NO	3300
105	SCR&NUT M12X60 C4 IS 1363/2&3	NO	5600
106	SCR&NUT M12X125 C4 IS 1363/2&3	NO	300
107	SCR&NUT M16X35 C4 IS 1363/2&3	NO	20000
108	SCR&NUT M16X40 C4 IS 1363/2&3	NO	293300
109	SCR&NUT M16X50 C4 IS 1363/2&3	NO	26000
110	SCR&NUT M16X60 C4 IS 1363/2&3	NO	8600
111	SCR&NUT M16X75 C4 IS 1363/2&3	NO	12000
112	SCR&NUT M16X110 C4 IS 1363/2&3	NO	14600
113	SCR&NUT M16X120 C4 IS 1363/2&3	NO	3600
114	SCR&NUT M16X125 C4 IS 1363/2&3	NO	3600
115	BLT&NUT M10X35 C4 IS 1363/1&3	NO	3600
116	BLT&NUT M10X45 C4 IS 1363/1&3	NO	1300
117	BLT&NUT M16X50 C4 IS 1363/1&3	NO	7300
118	BLT&NUT M16X60 C4 IS 1363/1&3	NO	10000
119	BLT&NUT M16X70 C4 IS 1363/1&3	NO	8600
120	BLT&NUT M16X120 C4 IS 1363/1&3	NO	12600
121	BLT&NUT M20X200 C4 IS 1363/1&3	NO	2000
122	BLT&NUT M20X240 C4 IS 1363/1&3	NO	3300
123	BLT&NUT M30X100 C4 IS 1363/1&3	NO	1000
124	NUT HEX M12 GR B 6 IS 1364/3	NO	3300
125	NUT HEX M20 GR B 6 IS 1364/3	NO	6600
126	NUT HEX M24 GR B 6 IS 1364/3	NO	13300
127	NUT HEX M30 GR B 6 IS 1364/3	NO	4600

128	NUT HEX M33 GR B 6 - BPS 41301	NO	650
129	NUT HEX M36X3 GR B 6 BPS 41301	NO	1000
130	NUT HEX M42X3 GR B 6 BPS 41301	NO	300
131	NUT HEX M48X3 GR B 6 BPS 41301	NO	8600
132	THIN NUT HEX M12 GR 5 IS 1364/4	NO	650
133	THIN NUT HEX M16 GR 5 IS 1364/4	NO	1200
134	THIN NUT HEX M20 GR 5 IS 1364/4	NO	4000
135	THIN NUT HEX M24 GR 5 IS 1364/4	NO	3300
136	THIN NUT HEX M30 GR 5 IS 1364/4	NO	1000
137	NUT HEX M4 GR C 4 IS 1364/3	NO	300
138	NUT HEX M6 GR C 4 IS 1364/3	NO	30000
139	NUT HEX M8 GR C 4 IS 1364/3	NO	4500
140	NUT HEX M10 GR C 4 IS 1364/3	NO	53300
141	NUT HEX M12 GR C 4 IS 1364/3	NO	52000
142	NUT HEX GR C4 M16 -IS1363/3/92	NO	28600
143	NUT HEX M20 GR C 4 IS 1364/3	NO	5300
144	NUT HEX M30 GR C 4 IS 1364/3	NO	1000
145	NUT HEX M 6 GR A8,IS1364/3	NO	2600
146	NUT HEX M 8 GR A8,IS1364/3	NO	3300
147	NUT HEX M10 GR A8,IS1364/3	NO	7300
148	NUT HEX M12 GR A8,IS1364/3	NO	3300
149	NUT HEX M16 GR A8,IS1364/3	NO	173300
150	NUT HEX M24 GR A8,IS1364/3	NO	3300
151	NUT HEX M33 GR A8,IS1364/3	NO	650
152	HEX NUT M 20 GR B10,IS1364/3	NO	4000
153	NUT HEX GRC4 M27LH, IS1363/3/92	NO	650
154	NUT GR4 M30LH, IS 1363/3/92	NO	650
155	CYL SCREW: 12X60,ISO 4762/DIN 912	NO	3000
156	CYL SCREW: M14X35,GR 8.8,ISO 4762/DIN 912	NO	5000
157	CYL SCREW:M10X20,GR 8.8,ISO 4762/DIN 912	NO	4000
158	CYL SCREW:M6X80,GR 8.8,ISO 4762/DIN 912	NO	500
159	CYL.CAP.SCREW: M12X30, GR 8.8,ISO 4762/DIN 912	NO	3000
160	HEX SCREW:M10X60, GR 8.8,ISO 4762/DIN 912	NO	1000
161	HEX SOC HD SCREW:M22X1.5, GR 8.8,ISO 4762/DIN 912	NO	1000
162	HEX SCREW:M10X60,GR 8.8,ISO 4762/DIN 912	NO	1000
163	CYL PIN:10X32 ,GR 8.8,IS 2393/ 1980	NO	500
164	SCREW: PLUG M10X1, GR 8.8, DIN 934	NO	1000
165	NUT M10, GR 8.8, DIN908	NO	1000

Note: (1). Inspection Requirement Should be as per Check List ICL 501 Rev 00 dated 22/01/2003.

(2). The Delivery date for the above mentioned items are within 3 months from the date of Purchase Order.

(3). The Quantity tolerance applicable for the above items are +/- 5%.



Inspection Check List For Fasteners

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AA) Nuts

SI No	Inspection Requirement	Applicable Standard	Test witness Requirements by BHEL (As Per IS1367 part17)		Test Certificate Requirements
			Sample size	Acceptance No.	
01	Visual	As per PO	20	0	Conformance Certificate
02	Dimensional Check	As per PO	50	2	Conformance Certificate
03	Hardness	As per PO	20	0	Hardness Report
04	Proof Load	As per PO	03	0	Test Report
05	Chemistry	As per PO	One per batch		Test Report
06	Identification	As per PO	Random		--

BB) Bolts, Screws & Studs

SI No	Inspection Requirement	Applicable Standard	Test witness Requirements by BHEL (As Per IS1367 part17)		Test Certificate Requirements
			Sample Size	Acceptance No.	
01	Visual	As per PO	20	0	Conformance Certificate
02	Dimensional Check	As per PO	50	2	Conformance Certificate
03	Hardness	As per PO	20	0	Hardness Report
04	Tensile Test * Or Wedge load test	As per PO	03	0	Test Report
05	Identification	As per PO	Random		--

- * Tensile test bar shall be subjected to same heat treatment as that of fasteners
- * Wedge load test on actual product to be conducted on smaller size fasteners.

Note: Fasteners shall be preserved to avoid rusting before despatch

Prepared By	Reviewed By	Approved By
	 B. Sinwasrao	

00	16/04/03	Original Issue
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REV. NO.	DATE	CHANGES MADE
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Record of Revision

QUALITY CONTROLLED COPY
 CONTROL NO: Q/WI/027
 ISSUED TO SHRI. Shri. R. Paadhaa
 MPO(MPL - Ran)