

BHEL :: BAP :: RANIPET
PURCHASE DEPARTMENT
ANNEXURE-A (List of items with Technical Specification)

NOTICE INVITING TENDER

OPEN TENDER REF: 9171011E dt 03.10.2017

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: 26.10.2017 BEFORE 14.00 HRS IST

BID OPENING DATE: 26.10.2017 AT 14:30 HRS IST

S/no	Material Code	Mtl Deser (REFERENCE PURPOSE ONLY)	Short Description	Size	Material Grade	IS STANDARD	BPS NO (BHEL STANDARD)	Un	QUANTITY
1	411011003500	STUD'A'M10X35 GR6.8 IS1862/75	STUD TYPE-A	M10X35	Gr 6.8	IS 1862	41101	NO	800
2	411021204000	STUD B M12X40 GR.A 6.6 IS:1862/75	STUD TYPE-B	M12X40	Gr 6.8	IS 1862	41102	NO	11000
3	411021604500	STUD'B'M16X45 GR6.8 IS1862/75	STUD TYPE-B	M16X45	Gr 6.8	IS 1862	41102	NO	500
4	411161003500	STUD ATO WLD M10X35 BPS 41116	STUD ATO WELD	M10X35	C10	IS 1367/2	41116	NO	1000
5	411161205500	STUD ATO WLD M12X55 BPS 41116	STUD ATO WELD	M12X55	C10	IS 1367/2	41116	NO	1000
6	411161604000	STUD ATO WLD M16X40 BPS-41116	STUD ATO WELD	M16X40	C10	IS 1367/2	41116	NO	29800
7	411161606500	STUD ATO WLD M16X65 -BPS 41116	STUD ATO WELD	M16X65	C10	IS 1367/2	41116	NO	800
8	412010402500	CHS SLT SCREW M4X25 GR4.8 IS 1366	CHEESE SLT SCREW	M4X25	Gr 4.8	IS 1366	41201	NO	2000
9	412010405500	CHS SLT SCREW M4X55 GR4.8 IS 1366	CHEESE SLT SCREW	M4X55	Gr 4.8	IS 1366	41201	NO	1000
10	412020601600	SOC CAP SCREW M6X16 GR8.8 IS 2388	SOC HD CAP SCREW	M6X16	Gr 8.8	IS 2388	41202	NO	1000
11	412020602000	SOC CAP SCREW M6X20 GR8.8 IS 2069	SOC HD CAP SCREW	M6X20	Gr 8.8	IS 2269	41202	NO	500
12	412020803000	SOC CAP SCREW M8X30 GR8.8 IS 2069	SOC HD CAP SCREW	M8X30	Gr 8.8	IS 2269	41202	NO	1000
13	412020805500	SOC CAP SCREW M8X55 GR8.8 IS 2069	SOC HD CAP SCREW	M8X55	Gr 8.8	IS 2269	41202	NO	500
14	412021002000	SOC CAP SCREW M10X20 GR8.8 IS 2069	SOC HD CAP SCREW	M10X20	Gr 8.8	IS 2269	41202	NO	3000
15	412021002500	SOC CAP SCREW M10X25 GR8.8 IS 2069	SOC HD CAP SCREW	M10X25	Gr 8.8	IS 2269	41202	NO	500
16	412021202000	SOC CAP SCREW M12X20 GR8.8 IS 2069	SOC HD CAP SCREW	M12X20	Gr 8.8	IS 2269	41202	NO	500
17	412021202500	SOC CAP SCREW M12X25 GR8.8 IS 2069	SOC HD CAP SCREW	M12X25	Gr 8.8	IS 2269	41202	NO	500
18	412021203000	SOC CAP SCREW M12X30 GR8.8 IS 2069	SOC HD CAP SCREW	M12X30	Gr 8.8	IS 2269	41202	NO	1000
19	412021206000	SOC CAP SCREW M12X60 GR8.8 IS 2069	SOC HD CAP SCREW	M12X60	Gr 8.8	IS 2269	41202	NO	500
20	412021207000	SOC CAP SCREW M12X70 GR8.8 IS 2069	SOC HD CAP SCREW	M12X70	Gr 8.8	IS 2269	41202	NO	500
21	412021604000	SOC CAP SCREW M16X40 GR8.8 IS 2069	SOC HD CAP SCREW	M16X40	Gr 8.8	IS 2269	41202	NO	900
22	412022404500	SOC CAP SCREW M24X45 GR8.8 IS 2069	SOC HD CAP SCREW	M24X45	Gr 8.8	IS 2269	41202	NO	4000
23	412022408000	SOC CAP SCREW M24X80 GR8.8 IS 2269	SOC HD CAP SCREW	M24X80	Gr 8.8	IS 2269	41202	NO	500
24	412050601200	CSK SLT SCREW M6X12 GR4.8 IS 1365	CSK SLT SCREW	M6X12	Gr 4.8	IS 1365	41205	NO	500
25	412051205000	CSK SLT SCREW M12X50 GR4.8 IS 1365	CSK SLT SCREW	M12X50	Gr 4.8	IS 1365	41205	NO	1000
26	412100601000	GRUB SCREW SLT C M6X10 22H IS 2388	GRUB SCREW SLT C	M6X10	22H	IS 2388	41210	NO	500
27	412100601200	GRUB SCREW SLT C M6X12 22H IS 2388	GRUB SCREW SLT C	M6X12	22H	IS 2388	41210	NO	500
28	412100601600	GRUB SCREW SLT C M6X16 22H IS 2388	GRUB SCREW SLT C	M6X16	22H	IS 2388	41210	NO	500
29	412100802000	GRUB SCREW SLT C M8X20 22H IS 2388	GRUB SCREW SLT C	M8X20	22H	IS 2388	41210	NO	500
30	412101001200	GRUB SCREW SLT C M10X12 22H IS 2388	GRUB SCREW SLT C	M10X12	22H	IS 2388	41210	NO	500
31	412101001600	GRUB SCREW SLT C M10X16 22H IS 2388	GRUB SCREW SLT C	M10X16	22H	IS 2388	41210	NO	2000
32	412101002000	GRUB SCREW SLT C M10X20 22H IS 2388	GRUB SCREW SLT C	M10X20	22H	IS 2388	41210	NO	3000
33	412101002500	GRUB SCREW SLT C M10X25 22H IS 2388	GRUB SCREW SLT C	M10X25	22H	IS 2388	41210	NO	500
34	412101003500	GRUB SCREW SLT C M10X35 22H IS 2388	GRUB SCREW SLT C	M10X35	22H	IS 2388	41210	NO	600
35	412101203000	GRUB SCREW SLT C M12X30 22H IS 2388	GRUB SCREW SLT C	M12X30	22H	IS 2388	41210	NO	27400
36	412120550000	SOC CAP SCREW M12X55 GR10.9 IS 2069	SOC HD CAP SCREW	M12X55	Gr 12.9	IS 2269	41212	NO	500
37	412120801600	SCRU SOC HD CAP 12.9 M8X16 IS 2069	SOC HD CAP SCREW	M8X16	Gr 12.9	IS 2269	41212	NO	1000
38	412120804500	SOC HD CAP SCREW M 8X45 GR 12.9 IS 2269	SOC HD CAP SCREW	M8X45	Gr 12.9	IS 2269	41212	NO	1000
39	412121003000	SCRU SOC HD CAP 12.9 M10X30 IS 2269	SOC HD CAP SCREW	M10X30	Gr 12.9	IS 2269	41212	NO	3000
40	412121005500	SOC CAP SCREW M10X55 GR12.9 IS 2069	SOC HD CAP SCREW	M10X55	Gr 12.9	IS 2269	41212	NO	700
41	412121009000	SOC.HD.CAP.SCREW,M10X90GR12.9 IS 2269	SOC HD CAP SCREW	M10X90	Gr 12.9	IS 2269	41212	NO	700
42	412121203000	SCRU SOC HD CAP 12.9 M12X30 IS 2069	SOC HD CAP SCREW	M12X30	Gr 12.9	IS 2269	41212	NO	900

43	412121204000	SOC HD CAP SCREW M12X40 GR12.9 IS 2269	SOC HD CAP SCREW	M12X40	Gr 12.9	IS 2269	41212	NO	900
44	412121204500	SCRU SOC HD CAP 12.9 M12X45, IS 2269	SOC HD CAP SCREW	M12X45	Gr 12.9	IS 2269	41212	NO	800
45	412121206000	SCRU SOC HD CAP 12.9 M12X60 IS 2269	SOC HD CAP SCREW	M12X60	Gr 12.9	IS 2269	41212	NO	7200
46	412121207000	SCRU SOC HD CAP 12.9 M12X70 IS 2269	SOC HD CAP SCREW	M12X70	Gr 12.9	IS 2269	41212	NO	6900
47	412121208000	SOC CAP SCREW M12X80 GR10.9 IS 2269	SOC HD CAP SCREW	M12X80	Gr 12.9	IS 2269	41212	NO	500
48	412121604000	SOC HD CAP SCREW M16X40 GR12.9 IS 2269	SOC HD CAP SCREW	M16X40	Gr 12.9	IS 2269	41212	NO	1000
49	412121604500	SOC HD CAP SCREW M16X45 GR12.9 IS 2269	SOC HD CAP SCREW	M16X45	Gr 12.9	IS 2269	41212	NO	500
50	412121605500	SOC HD CAP SCREW M16X55 GR12.9 IS 2269	SOC HD CAP SCREW	M16X55	Gr 12.9	IS 2269	41212	NO	500
51	412121606000	SCRU CAP SOC 10.9 M 16X60 IS 2269	SOC HD CAP SCREW	M16X60	Gr 12.9	IS 2269	41212	NO	500
52	412121606500	SCRU CAP SOC 12.9 M 16X65 IS 2269	SOC HD CAP SCREW	M16X65	Gr 12.9	IS 2269	41212	NO	500
53	412121610000	SOC CAP SCREW M16X100 GR12.9 IS 2269	SOC HD CAP SCREW	M16X100	Gr 12.9	IS 2269	41212	NO	500
54	412122004000	SOC CAP SCREW M20X40 GR12.9 IS 2269	SOC HD CAP SCREW	M20X40	Gr 12.9	IS 2269	41212	NO	500
55	412122004500	SOC CAP SCREW M20X45 GR 12.9 IS 2269	SOC HD CAP SCREW	M20X45	Gr 12.9	IS 2269	41212	NO	500
56	412122005500	SOC CAP SCREW M20X55 GR10.9 IS 2269	SOC HD CAP SCREW	M20X55	Gr 12.9	IS 2269	41212	NO	2400
57	412122006000	SOC CAP SCREW M20X60 GR12.9 IS 2269	SOC HD CAP SCREW	M20X60	Gr 12.9	IS 2269	41212	NO	500
58	412122009000	SOC CAP SCREW M20X90 GR12.9 IS 2269	SOC HD CAP SCREW	M20X90	Gr 12.9	IS 2269	41212	NO	500
59	412122405500	SOC CAP SCREW M24X55 GR12.9 IS 2269	SOC HD CAP SCREW	M24X55	Gr 12.9	IS 2269	41212	NO	500
60	412122406000	SOC CAP SCREW M24X60 GR12.9 IS 2269	SOC HD CAP SCREW	M24X60	Gr 12.9	IS 2269	41212	NO	500
61	412122407000	SOC CAP SCREW M24X70 GR12.9 IS 2269	SOC HD CAP SCREW	M24X70	Gr 12.9	IS 2269	41212	NO	1100
62	412151210000	HEX BOLT M12X100 GR6.8 IS 1364/1	HEX BOLT	M12X100	Gr 6.8	IS 1364/1	41215	NO	500
63	412152007000	HEX BOLT M20X70 GR6.8 IS 1364/2	HEX BOLT	M20X70	Gr 6.8	IS 1364/1	41215	NO	500
64	412152406000	HEX BOLT M24X60 GR6.8 IS 1364/1	HEX BOLT	M24X60	Gr 6.8	IS 1364/1	41215	NO	500
65	412152409000	HEX BOLT M24X90 GR6.8 IS 1364/1	HEX BOLT	M24X90	Gr 6.8	IS 1364/1	41215	NO	500
66	412152410000	HEX BOLT M24X100 GR6.8 IS 1364/1	HEX BOLT	M24X100	Gr 6.8	IS 1364/1	41215	NO	500
67	412153309000	HEX BOLT M33X90 GR6.8 BPS 41215	HEX BOLT	M33X90	Gr 6.8	IS 1363/1	41215	NO	1900
68	412162006500	HEX SCREW M20X65 GR6.8 IS1364/1	HEX SCREW	M20X65	Gr 6.8	IS 1364/2	41216	NO	1000
69	412200802000	SOC GRUB SCREW M8X20 GR.A 22H IS 2388	SOC HD GRUB SCREW	M8X20	22H	IS 2388	41220	NO	1000
70	412201002000	SOC GRUB SCREW M10X20 GR.A 22H IS 2388	SOC HD GRUB SCREW	M10X20	22H	IS 2388	41220	NO	2000
71	412210804000	HEX BOLT M8X40 GR4.6 IS 1363/1	HEX BOLT	M8X40	Gr 4.6	IS 1363/1	41221	NO	2000
72	412211004500	HEX BOLT M10X45 GR4.6 IS 1363/1	HEX BOLT	M10X45	Gr 4.6	IS 1363/1	41221	NO	3000
73	412211205000	HEX BOLT M12X50 GR4.6 IS 1363/1	HEX BOLT	M12X50	Gr 4.6	IS 1363/1	41221	NO	6000
74	412211206000	HEX BOLT M12X60 GR4.6 IS 1363/1	HEX BOLT	M12X60	Gr 4.6	IS 1363/1	41221	NO	1000
75	412211207000	HEX BOLT M12X70 GR4.6 IS 1363/1	HEX BOLT	M12X70	Gr 4.6	IS 1363/1	41221	NO	500
76	412211209000	HEX BOLT M12X90 GR4.6 IS 1363/1	HEX BOLT	M12X90	Gr 4.6	IS 1363/1	41221	NO	500
77	412211604000	HEX BOLT M16X40 GR4.6 IS 1363/1	HEX BOLT	M16X40	Gr 4.6	IS 1363/1	41221	NO	37600
78	412211605000	HEX BOLT M16X50 GR4.6 IS 1363/1	HEX BOLT	M16X50	Gr 4.6	IS 1363/1	41221	NO	500
79	412211606000	HEX BOLT M16X60 GR4.6 IS 1363/1	HEX BOLT	M16X60	Gr 4.6	IS 1363/1	41221	NO	500
80	412211607000	HEX BOLT M16X70 GR4.6 IS 1363/1	HEX BOLT	M16X70	Gr 4.6	IS 1363/1	41221	NO	500
81	412211608000	HEX BOLT M16X80 GR4.6 IS 1363/1	HEX BOLT	M16X80	Gr 4.6	IS 1363/1	41221	NO	800
82	412211610000	HEX BOLT M16X100 GR4.6 IS 1363/1	HEX BOLT	M16X100	Gr 4.6	IS 1363/1	41221	NO	500
83	412212006500	HEX BOLT M20X65 GR4.6 IS 1363/1	HEX BOLT	M20X65	Gr 4.6	IS 1363/1	41221	NO	600
84	412212007000	HEX BOLT M20X70 GR4.6 IS 1363/1	HEX BOLT	M20X70	Gr 4.6	IS 1363/1	41221	NO	2000
85	412212010000	HEX BOLT M20X100 GR4.6 IS 1363/1	HEX BOLT	M20X100	Gr 4.6	IS 1363/1	41221	NO	800
86	412212410000	HEX BOLT M24X100 GR4.6 IS 1363/1	HEX BOLT	M24X100	Gr 4.6	IS 1363/1	41221	NO	500
87	412212416000	HEX BOLT M24X160 GR4.6 IS 1363/1	HEX BOLT	M24X160	Gr 4.6	IS 1363/1	41221	NO	500
88	412213010000	HEX BOLT M30X100 GR4.6 IS 1363/1	HEX BOLT	M30X100	Gr 4.6	IS 1363/1	41221	NO	3900
89	412213016000	HEX BOLT M30X160 GR4.6 IS 1363/1	HEX BOLT	M30X160	Gr 4.6	IS 1363/1	41221	NO	1700
90	412220605000	HEX SCRU M6X50 GR4.6 IS 1363/2	HEX SCREW	M6X50	Gr 4.6	IS 1363/2	41222	NO	4000
91	412221003500	HEX SCRU M10X35 GR4.6 IS 1363/2	HEX SCREW	M10X35	Gr 4.6	IS 1363/2	41222	NO	63200
92	412221004500	HEX SCRU M10X45 GR4.6 IS 1363/2	HEX SCREW	M10X45	Gr 4.6	IS 1363/2	41222	NO	79600
93	412221005000	HEX SCRU M10X50 GR4.6 IS 1363/2	HEX SCREW	M10X50	Gr 4.6	IS 1363/2	41222	NO	500
94	412221202500	HEX SCRU M12X25 GR4.6 IS 1363/2	HEX SCREW	M12X25	Gr 4.6	IS 1363/2	41222	NO	67100

95	412221203000	HEX SCRU M12X30 GR4.6 IS 1363/2	HEX SCREW	M12X30	Gr 4.6	IS 1363/2	41222	NO	4000
96	412221204000	HEX SCRU M12X40 GR4.6 IS 1363/2	HEX SCREW	M12X40	Gr 4.6	IS 1363/2	41222	NO	4000
97	412221205000	HEX SCRU M12X50 GR4.6 IS 1363/2	HEX SCREW	M12X50	Gr 4.6	IS 1363/2	41222	NO	61500
98	412221206000	HEX SCRU M12X60 GR4.6 IS 1363/2	HEX SCREW	M12X60	Gr 4.6	IS 1363/2	41222	NO	27100
99	412221207000	HEX SCRU M12X70 GR4.6 IS 1363/2	HEX SCREW	M12X70	Gr 4.6	IS 1363/2	41222	NO	500
100	412221210000	HEX SCRU M12X100 GR4.6 IS 1363/2	HEX SCREW	M12X100	Gr 4.6	IS 1363/2	41222	NO	2000
101	412221212500	HEX SCRU M12X125 GR4.6 IS 1363/2	HEX SCREW	M12X125	Gr 4.6	IS 1363/2	41222	NO	500
102	412221604000	HEX SCRU M16X40 GR4.6 IS 1363/2	HEX SCREW	M16X40	Gr 4.6	IS 1363/2	41222	NO	24900
103	412221604500	HEX SCRU M16X45 GR4.6 IS 1363/2	HEX SCREW	M16X45	Gr 4.6	IS 1363/2	41222	NO	3000
104	412221605000	HEX SCRU M16X50 GR4.6 IS 1363/2	HEX SCREW	M16X50	Gr 4.6	IS 1363/2	41222	NO	1000
105	412221607500	HEX SCRU M16X75 GR4.6 IS 1363/2	HEX SCREW	M16X75	Gr 4.6	IS 1363/2	41222	NO	500
106	412221611000	HEX SCRU M16X110 GR4.6 IS 1363/2	HEX SCREW	M16X110	Gr 4.6	IS 1363/2	41222	NO	2000
107	412222010000	HEX SCRU M20X100 GR4.6 IS 1363/2	HEX SCREW	M20X100	Gr 4.6	IS 1363/2	41222	NO	500
108	412222410000	HEX SCRU M24X100 GR4.6 IS 1363/2	HEX SCREW	M24X100	Gr 4.6	IS 1363/2	41222	NO	6000
109	412370602500	HEX BOLT M6X25 GR8.8 IS 1364/1	HEX BOLT	M6X25	Gr 8.8	IS 1364/1	41237	NO	500
110	412370805500	HEX BOLT M8X55 GR 8.8 IS1364/1	HEX BOLT	M8X55	Gr 8.8	IS 1364/1	41237	NO	500
111	412370806000	HEX BOLT M8X60 GR8.8 IS 1364/1	HEX BOLT	M8X60	Gr 8.8	IS 1364/1	41237	NO	500
112	412371003500	HEX BOLT M10X35 GR8.8 IS 1364/1	HEX BOLT	M10X35	Gr 8.8	IS 1364/1	41237	NO	2000
113	412371205000	HEX BOLT M12X50 GR8.8 IS 1364/1	HEX BOLT	M12X50	Gr 8.8	IS 1364/1	41237	NO	2000
114	412371205500	HEX BOLT M12X55 GR8.8 IS 1364/1	HEX BOLT	M12X55	Gr 8.8	IS 1364/1	41237	NO	1000
115	412371206000	HEX BOLT M12X60 GR8.8 IS 1364/1	HEX BOLT	M12X60	Gr 8.8	IS 1364/1	41237	NO	800
116	412371606000	HEX BOLT M16X60 GR8.8 IS 1364/1	HEX BOLT	M16X60	Gr 8.8	IS 1364/1	41237	NO	29600
117	412371608000	HEX BOLT M16X80 GR8.8 IS 1364/1	HEX BOLT	M16X80	Gr 8.8	IS 1364/1	41237	NO	1000
118	412371610000	HEX BOLT M16X100 GR8.8 IS 1364/1	HEX BOLT	M16X100	Gr 8.8	IS 1364/1	41237	NO	34200
119	412372007000	HEX BOLT M20X70 GR8.8 IS 1364/1	HEX BOLT	M20X70	Gr 8.8	IS 1364/1	41237	NO	500
120	412372008000	HEX BOLT M20X80 GR8.8 IS 1364/1	HEX BOLT	M20X80	Gr 8.8	IS 1364/1	41237	NO	5400
121	412372010000	HEX BOLT M20X100 GR8.8 IS 1364/1	HEX BOLT	M20X100	Gr 8.8	IS 1364/1	41237	NO	700
122	412372408000	HEX BOLT M24X80 GR8.8 IS 1364/1	HEX BOLT	M24X80	Gr 8.8	IS 1364/1	41237	NO	600
123	412372416000	HEX BOLT M24X160 GR 8.8 IS 1364/1	HEX BOLT	M24X160	Gr 8.8	IS 1364/1	41237	NO	500
124	412373012000	HEX BOLT M30X120 GR8.8 IS 1364/1	HEX BOLT	M30X120	Gr 8.8	IS 1364/1	41237	NO	1600
125	412373014000	HEX BOLT M30X140 GR8.8 IS 1364/1	HEX BOLT	M30X140	Gr 8.8	IS 1364/1	41237	NO	1000
126	412373310000	HEX BOLT M33X100 GR 8.8 IS 136/1	HEX BOLT	M33X100	Gr 8.8	IS 1364/1	41237	NO	500
127	412373314000	HEX BOLT M33X140 GR8.8 IS 1364/1	HEX BOLT	M33X140	Gr 8.8	IS 1364/1	41237	NO	1400
128	412380802500	HEX SCREW M8X25 GR.8.8 IS 1364/2	HEX SCREW	M8X25	Gr 8.8	IS 1364/2	41238	NO	2000
129	412380807000	HEX SCREW M8X70 GR.8.8 IS 1364/2	HEX SCREW	M8X70	Gr 8.8	IS 1364/2	41238	NO	500
130	412381002500	HEX SCREW M10X25 GR.8.8 IS 1364/2	HEX SCREW	M10X25	Gr 8.8	IS 1364/2	41238	NO	2000
131	412381003000	HEX SCREW M10X30 GR.8.8 IS 1364/2	HEX SCREW	M10X30	Gr 8.8	IS 1364/2	41238	NO	600
132	412381003500	HEX SCREW M10X35 GR.8.8 IS 1364/2	HEX SCREW	M10X35	Gr 8.8	IS 1364/2	41238	NO	2000
133	412381004000	HEX SCREW M10X40 GR.8.8 IS 1364/2	HEX SCREW	M10X40	Gr 8.8	IS 1364/2	41238	NO	500
134	412381004500	HEX SCREW M10X45 GR.8.8 IS 1364/2	HEX SCREW	M10X45	Gr 8.8	IS 1364/2	41238	NO	4000
135	412381202500	HEX SCREW M12X25 GR.8.8 IS 1364/2	HEX SCREW	M12X25	Gr 8.8	IS 1364/2	41238	NO	500
136	412381203000	HEX SCREW M12X30 GR.8.8 IS 1364/2	HEX SCREW	M12X30	Gr 8.8	IS 1364/2	41238	NO	33300
137	412381204000	HEX SCREW M12X40 GR.8.8 IS 1364/2	HEX SCREW	M12X40	Gr 8.8	IS 1364/2	41238	NO	38700
138	412381205000	HEX SCREW M12X50 GR.8.8 IS 1364/2	HEX SCREW	M12X50	Gr 8.8	IS 1364/2	41238	NO	5000
139	412381210000	HEX SCREW M12X100 GR.8.8 IS 1364/2	HEX SCREW	M12X100	Gr 8.8	IS 1364/2	41238	NO	2000
140	412381602500	HEX SCREW M16X25 GR.8.8 IS 1364/2	HEX SCREW	M16X25	Gr 8.8	IS 1364/2	41238	NO	2000
141	412381603500	HEX SCREW M16X35 GR.8.8 IS 1364/2	HEX SCREW	M16X35	Gr 8.8	IS 1364/2	41238	NO	22400
142	412381604000	HEX SCREW M16X40 GR.8.8 IS 1364/2	HEX SCREW	M16X40	Gr 8.8	IS 1364/2	41238	NO	15800
143	412381604500	HEX SCREW M16X45 GR.8.8 IS 1364/2	HEX SCREW	M16X45	Gr 8.8	IS 1364/2	41238	NO	56600
144	412381605000	HEX SCREW M16X50 GR.8.8 IS 1364/2	HEX SCREW	M16X50	Gr 8.8	IS 1364/2	41238	NO	26500
145	412381606000	HEX SCREW M16X60 GR.8.8 IS 1364/2	HEX SCREW	M16X60	Gr 8.8	IS 1364/2	41238	NO	28300
146	412381607000	HEX SCREW M16X70 GR.8.8 IS 1364/2	HEX SCREW	M16X70	Gr 8.8	IS 1364/2	41238	NO	700

147	412381608000	HEX SCREW M16X80 GR.8.8 IS 1364/2	HEX SCREW	M16X80	Gr 8.8	IS 1364/2	41238	NO	600
148	412381610000	HEX SCREW M16X100 GR.8.8 IS 1364/2	HEX SCREW	M16X100	Gr 8.8	IS 1364/2	41238	NO	19500
149	412382004000	HEX SCREW M20X40 GR.8.8 IS 1364/2	HEX SCREW	M20X40	Gr 8.8	IS 1364/2	41238	NO	500
150	412382006500	HEX SCREW M20X65 GR.8.8 IS 1364/2	HEX SCREW	M20X65	Gr 8.8	IS 1364/2	41238	NO	500
151	412382009000	HEX SCREW M20X90 GR.8.8 IS 1364/2	HEX SCREW	M20X90	Gr 8.8	IS 1364/2	41238	NO	8700
152	412382410000	HEX SCREW M24X100 GR.8.8 IS 1364/2	HEX SCREW	M24X100	Gr 8.8	IS 1364/2	41238	NO	500
153	412383012000	HEX SCREW M30X120 GR.8.8 IS 1364/2	HEX SCREW	M30X120	Gr 8.8	IS 1364/2	41238	NO	500
154	412391003000	CSK HEX SCREW M10X30 GR.8.8 IS 6761	CSK HEX SCREW	M10X30	Gr 8.8	IS 6761	41239	NO	1000
155	412392427000	CSK HEX SCREW M24X2X70 GR.8.8 IS 6761	CSK HEX SCREW	M24X2X70	Gr 8.8	IS 6761	41239	NO	500
156	412401606000	HEX BOLT&NUT M16X60 GR 8.8 1363/1&3	HEX BOLT & NUT	M16X60	Gr 8.8	IS 1363/1&3	41240	NO	800
157	412402414000	BOLT&NUT HSS8.8 M24X140,IS 3757,IS 6623	BOLT & NUT	M24X140	Gr 8.8	IS 6623	41240	NO	500
158	412441606000	HEX BOLT M16X60 GR10.9 IS 1364/1	HEX BOLT	M16X60	Gr 10.9	IS 1364/1	41244	NO	7200
159	412441610000	HEX BOLT M16X100 GR10.9 IS 1364/1	HEX BOLT	M16X100	Gr 10.9	IS 1364/1	41244	NO	900
160	412442007000	HEX BOLT M20X70 GR10.9 IS 1364/1	HEX BOLT	M20X70	Gr 10.9	IS 1364/1	41244	NO	5500
161	412442008000	HEX BOLT M20X80 GR10.9 IS 1364/1	HEX BOLT	M20X80	Gr 10.9	IS 1364/1	41244	NO	1000
162	412442015000	HEX BOLT M20X150 GR10.9 IS 1364/1	HEX BOLT	M20X150	Gr 10.9	IS 1364/1	41244	NO	500
163	412442410000	HEX BOLT M24X100 GR10.9 IS 1364/1	HEX BOLT	M24X100	Gr 10.9	IS 1364/1	41244	NO	500
164	412442411000	HEX BOLT M24X110 GR10.9 IS 1364/1	HEX BOLT	M24X110	Gr 10.9	IS 1364/1	41244	NO	500
165	412450802500	HEX SCREW M8X25 GR10.9 IS 1364/2	HEX SCREW	M8X25	Gr 10.9	IS 1364/2	41245	NO	2000
166	412450804000	HEX SCREW M8X40 GR10.9 IS 1364/2	HEX SCREW	M8X40	Gr 10.9	IS 1364/2	41245	NO	500
167	412451003500	HEX SCREW M10X35 GR10.9 IS 1364/2	HEX SCREW	M10X35	Gr 10.9	IS 1364/2	41245	NO	500
168	412451204000	HEX SCREW M12X40 GR10.9 IS 1364/2	HEX SCREW	M12X40	Gr 10.9	IS 1364/2	41245	NO	1000
169	412451205000	HEX SCREW M12X50 GR10.9 IS 1364/2	HEX SCREW	M12X50	Gr 10.9	IS 1364/2	41245	NO	500
170	412451605000	HEX SCREW M16X50 GR10.9 IS 1364/2	HEX SCREW	M16X50	Gr 10.9	IS 1364/2	41245	NO	500
171	412451606000	HEX SCREW M16X60 GR10.9 IS 1364/2	HEX SCREW	M16X60	Gr 10.9	IS 1364/2	41245	NO	500
172	412451608000	HEX SCREW M16X80 GR.10.9 IS 1364/2	HEX SCREW	M16X80	Gr 10.9	IS 1364/2	41245	NO	500
173	412452005000	HEX SCREW M20X50 GR10.9 IS 1364/2	HEX SCREW	M20X50	Gr 10.9	IS 1364/2	41245	NO	7300
174	412453308500	HEX SCREW M33X85 GR10.9 IS 1364/2	HEX SCREW	M33X85	Gr 10.9	IS 1364/2	41245	NO	500
175	412550803500	SCR&NUT M8X35 C4 IS 1363/2&3	HEX SCREW & NUT	M8X35	C 4	IS 1363/2&3	41255	NO	105700
176	412551003500	SCR&NUT M10X35 C4 IS 1363/2&3	HEX SCREW & NUT	M10X35	C 4	IS 1363/2&3	41255	NO	1000
177	412551004500	SCR&NUT M10X45 C4 IS 1363/2&3	HEX SCREW & NUT	M10X45	C 4	IS 1363/2&3	41255	NO	31600
178	412551203000	SCR&NUT M12X30 C4 IS 1363/2&3	HEX SCREW & NUT	M12X30	C 4	IS 1363/2&3	41255	NO	2000
179	412551204000	SCR&NUT M12X40 C4 IS 1363/2&3	HEX SCREW & NUT	M12X40	C 4	IS 1363/2&3	41255	NO	104300
180	412551205000	SCR&NUT M12X50 C4 IS 1363/2&3	HEX SCREW & NUT	M12X50	C 4	IS 1363/2&3	41255	NO	3000
181	412551206000	SCR&NUT M12X60 C4 IS 1363/2&3	HEX SCREW & NUT	M12X60	C 4	IS 1363/2&3	41255	NO	33700
182	412551603500	SCR&NUT M16X35 C4 IS 1363/2&3	HEX SCREW & NUT	M16X35	C 4	IS 1363/2&3	41255	NO	51600
183	412551604000	SCR&NUT M16X40 C4 IS 1363/2&3	HEX SCREW & NUT	M16X40	C 4	IS 1363/2&3	41255	NO	113000
184	412551604500	SCR&NUT M16X45 C4 IS 1363/2&3	HEX SCREW & NUT	M16X45	C 4	IS 1363/2&3	41255	NO	72600
185	412551605000	SCR&NUT M16X50 C4 IS 1363/2&3	HEX SCREW & NUT	M16X50	C 4	IS 1363/2&3	41255	NO	53500
186	412551606000	SCR&NUT M16X60 C4 IS 1363/2&3	HEX SCREW & NUT	M16X60	C 4	IS 1363/2&3	41255	NO	16100
187	412551607500	SCR&NUT M16X75 C4 IS 1363/2&3	HEX SCREW & NUT	M16X75	C 4	IS 1363/2&3	41255	NO	22800
188	412551611000	SCR&NUT M16X110 C4 IS 1363/2&3	HEX SCREW & NUT	M16X110	C 4	IS 1363/2&3	41255	NO	28600
189	412551612500	SCR&NUT M16X125 C4 IS 1363/2&3	HEX SCREW & NUT	M16X125	C 4	IS 1363/2&3	41255	NO	1000
190	412552004500	SCR&NUT M20X45 C4 IS 1363/2&3	HEX SCREW & NUT	M20X45	C 4	IS 1363/2&3	41255	NO	1000
191	412552006000	SCR&NUT M20X60 C4 IS 1363/2&3	HEX SCREW & NUT	M20X60	C 4	IS 1363/2&3	41255	NO	14100
192	412560803500	BLT&NUT M8X35 C4 IS 1363/1&3	HEX BOLT & NUT	M8X35	C 4	IS 1363/1&3	41256	NO	500
193	412561003500	BLT&NUT M10X35 C4 IS 1363/1&3	HEX BOLT & NUT	M10X35	C 4	IS 1363/1&3	41256	NO	500
194	412561004500	BLT&NUT M10X45 C4 IS 1363/1&3	HEX BOLT & NUT	M10X45	C 4	IS 1363/1&3	41256	NO	500
195	412561202500	BLT&NUT M12X25 C4 IS 1363/1&3	HEX BOLT & NUT	M12X25	C 4	IS 1363/1&3	41256	NO	700
196	412561205000	BLT&NUT M12X50 C4 IS 1363/1&3	HEX BOLT & NUT	M12X50	C 4	IS 1363/1&3	41256	NO	1000
197	412561206000	BLT&NUT M12X60 C4 IS 1363/1&3	HEX BOLT & NUT	M12X60	C 4	IS 1363/1&3	41256	NO	700
198	412561605000	BLT&NUT M16X50 C4 IS 1363/1&3	HEX BOLT & NUT	M16X50	C 4	IS 1363/1&3	41256	NO	16900

199	412561606000	BLT&NUT M16X60 C4 IS 1363/1&3	HEX BOLT & NUT	M16X60	C 4	IS 1363/1&3	41256	NO	18300
200	412561607000	BLT&NUT M16X70 C4 IS 1363/1&3	HEX BOLT & NUT	M16X70	C 4	IS 1363/1&3	41256	NO	25100
201	412561612000	BLT&NUT M16X120 C4 IS 1363/1&3	HEX BOLT & NUT	M16X120	C 4	IS 1363/1&3	41256	NO	24500
202	412562007000	BLT&NUT M20X70 C4 IS 1363/1&3	HEX BOLT & NUT	M20X70	C 4	IS 1363/1&3	41256	NO	19900
203	412562008000	BLT&NUT M20X80 C4 IS 1363/1&3	HEX BOLT & NUT	M20X80	C 4	IS 1363/1&3	41256	NO	1000
204	412562012000	BLT&NUT M20X120 C4 IS 1363/1&3	HEX BOLT & NUT	M20X120	C 4	IS 1363/1&3	41256	NO	9300
205	412562016000	BLT&NUT M20X160 C4 IS 1363/1&3	HEX BOLT & NUT	M20X160	C 4	IS 1363/1&3	41256	NO	13600
206	412562024000	BLT&NUT M20X240 C4 IS 1363/1&3	HEX BOLT & NUT	M20X240	C 4	IS 1363/1&3	41256	NO	10000
207	412562028000	BLT&NUT M20X280 C4 IS 1363/1&3	HEX BOLT & NUT	M20X280	C 4	IS 1363/1&3	41256	NO	1000
208	413010001200	NUT HEX M12 GR B 6 IS 1364/3	NUT HEX	M12	B 6	IS 1364/3	41301	NO	2000
209	413010001600	NUT HEX M16 GR B 6 IS 1364/3	NUT HEX	M16	B 6	IS 1364/3	41301	NO	59200
210	413010002000	NUT HEX M20 GR B 6 IS 1364/3	NUT HEX	M20	B 6	IS 1364/3	41301	NO	30700
211	413010002400	NUT HEX M24 GR B 6 IS 1364/3	NUT HEX	M24	B 6	IS 1364/3	41301	NO	18300
212	413010003000	NUT HEX M30 GR B 6 IS 1364/3	NUT HEX	M30	B 6	IS 1364/3	41301	NO	5100
213	413010003300	NUT HEX M33 GR B 6 - BPS 41301	NUT HEX	M33	B 6	IS 1364/3	41301	NO	800
214	413013004800	HEX M48X3 22H IS 1364/3 BPS 41301	NUT HEX	M48X3	22H	IS 1364/3	41301	NO	5800
215	413020001200	THIN NUT HEX M12 GR 5 IS 1364/4	THIN NUT HEX	M12	Gr 5	IS 1364/4	41302	NO	1000
216	413020001600	THIN NUT HEX M16 GR 5 IS 1364/4	THIN NUT HEX	M16	Gr 5	IS 1364/4	41302	NO	1000
217	413020002000	THIN NUT HEX M20 GR 5 IS 1364/4	THIN NUT HEX	M20	Gr 5	IS 1364/4	41302	NO	4000
218	413020002400	THIN NUT HEX M24 GR 5 IS 1364/4	THIN NUT HEX	M24	Gr 5	IS 1364/4	41302	NO	13800
219	413020003000	THIN NUT HEX M30 GR 5 IS 1364/4	THIN NUT HEX	M30	Gr 5	IS 1364/4	41302	NO	1000
220	413020003300	THIN NUT HEX M33 GR 5 BPS 41304	THIN NUT HEX	M33	Gr 5	IS 1364/4	41302	NO	500
221	413030001600	HEX THIN NUT M16 BPS 41302	CAP NUT	M16	22H	IS 2687	41303	NO	500
222	413040000400	NUT HEX M4 GR C 4 IS 1364/3	NUT HEX	M4	C 4	IS 1364/3	41304	NO	500
223	413040000600	NUT HEX M6 GR C 4 IS 1364/3	NUT HEX	M6	C 4	IS 1364/3	41304	NO	20000
224	413040001000	NUT HEX M10 GR C 4 IS 1364/3	NUT HEX	M10	C 4	IS 1364/3	41304	NO	142600
225	413040001200	NUT HEX M12 GR C 4 IS 1364/3	NUT HEX	M12	C 4	IS 1364/3	41304	NO	166300
226	413040001400	NUT HEX M14 GR C 4 IS 1364/3	NUT HEX	M14	C 4	IS 1364/3	41304	NO	500
227	413040001600	NUT HEX GR C4 M16 -IS1363/3/92	NUT HEX	M16	C 4	IS 1364/3	41304	NO	77500
228	413040002000	NUT HEX M20 GR C 4 IS 1364/3	NUT HEX	M20	C 4	IS 1364/3	41304	NO	22400
229	413040002400	NUT HEX M24 GR C 4 IS 1364/3	NUT HEX	M24	C 4	IS 1364/3	41304	NO	25800
230	413040003000	NUT HEX M30 GR C 4 IS 1364/3	NUT HEX	M30	C 4	IS 1364/3	41304	NO	11100
231	413040003300	NUT HEX M33 GR C 4 BPS 41304	NUT HEX	M33	A194 2H	BPS 41319	41304	NO	1000
232	413041001400	NUT HEX M14 X 1.5 C4- IS 1363/3	NUT HEX	M14X1.5	C 4	IS 1364/3	41304	NO	500
233	413190000800	HEX NUT M8 GR.A-T425-BPS41319	NUT HEX	M8	A194 2H	BPS 41319	41319	NO	500
234	413200000400	NUT HEX M 4 GR A8,IS1364/3	NUT HEX	M4	Gr A8	IS 1364/3	41320	NO	4000
235	413200000800	NUT HEX M 8 GR A8,IS1364/3	NUT HEX	M8	Gr A8	IS 1364/3	41320	NO	3000
236	413200001000	NUT HEX M10 GR A8,IS1364/3	NUT HEX	M10	Gr A8	IS 1364/3	41320	NO	900
237	413200001200	NUT HEX M12 GR A8,IS1364/3	NUT HEX	M12	Gr A8	IS 1364/3	41320	NO	98300
238	413200001600	NUT HEX M16 GR A8,IS1364/3	NUT HEX	M16	Gr A8	IS 1364/3	41320	NO	152800
239	413200002400	NUT HEX M24 GR A8,IS1364/3	NUT HEX	M24	Gr A8	IS 1364/3	41320	NO	14900
240	413200003000	NUT HEX M30 GR A8,IS1364/3	NUT HEX	M30	Gr A8	IS 1364/3	41320	NO	7200
241	413200003900	NUT HEX M39 GR A8,IS1364/3	NUT HEX	M39	Gr A8	IS 1364/3	41320	NO	500
242	413200008000	NUT HEX M8 GR A8,IS1364/3	NUT HEX	M8	Gr A8	IS 1364/3	41320	NO	500
243	413203003900	NUT HEX M39X3 GR A8,IS1364/3	NUT HEX	M39X3	Gr A8	IS 1364/3	41320	NO	2100
244	413220001000	HEX NUT M 10 GR B10,IS1364/3	NUT HEX	M10	Gr B10	IS 1364/3	41322	NO	1000
245	413220001600	HEX NUT M 16 GR B10,IS1364/3	NUT HEX	M16	Gr B10	IS 1364/3	41322	NO	1000
246	413220002400	HEX NUT M 24 GR B10,IS1364/3	NUT HEX	M24	Gr B10	IS 1364/3	41322	NO	11000
247	413220003300	HEX NUT M 33 GR B10 BPS 41322	NUT HEX	M33	Gr B10	IS 1364/3	41322	NO	1600
248	413540003000	NUT GR4 M30 LH IS 1364/3	NUT HEX	M30LH	C 4	IS 1364/3	41354	NO	2500
249	414050000400	SPRING WASHER SC4 GRB IS3063	SPRING WAHSE	SC4	Gr B	IS 3063	41405	NO	2000
250	414050001200	SPRING WASHER SC12 GRB IS3063	SPRING WAHSE	SC12	Gr B	IS 3063	41405	NO	37000

251	414050001600	SPRING WASHER SC16 GRB IS3063	SPRING WAHSE	SC16	Gr B	IS 3063	41405	NO	140200
252	414050003000	SPRING WASHER SC30 GRB IS3063	SPRING WAHSE	SC30	Gr B	IS 3063	41405	NO	5000
253	414050003300	SPRING WASHER SC33 GRB IS3063	SPRING WAHSE	SC33	Gr B	IS 3063	41405	NO	1000
254	414050003900	SPRING WASHER SC39 GRB IS3063	SPRING WAHSE	SC39	Gr B	IS 3063	41405	NO	1000
255	414060000800	MACHINED WASHER M8 BPS41406	MACHINED WASHER	M8	STEEL	IS 2016	41406	NO	1000
256	414060001000	MCD WASHER 10,IS2016	MACHINED WASHER	M10	STEEL	IS 2016	41406	NO	1000
257	414060001600	MCD WASHER 16 - IS2016/67	MACHINED WASHER	M16	STEEL	IS 2016	41406	NO	74200
258	414060002000	MCD WASHER 20 - IS2016/67	MACHINED WASHER	M20	STEEL	IS 2016	41406	NO	7000
259	414060002400	MCD WASHER 24,IS 2016/67	MACHINED WASHER	M24	STEEL	IS 2016	41406	NO	2000
260	414080000600	PUN WASHER A6 IS2016/67	PUNCHED WASHER	A6	STEEL	IS 2016	41408	NO	1000
261	414080000800	PUN WASHER A8 - IS2016/67	PUNCHED WASHER	A8	STEEL	IS 2016	41408	NO	94000
262	414080001000	PUN WASHER A10 IS2016/67	PUNCHED WASHER	A10	STEEL	IS 2016	41408	NO	47000
263	414080001200	PUNCHED WASHER A12 BPS-41408	PUNCHED WASHER	A12	STEEL	IS 2016	41408	NO	270800
264	414080001600	PUNCHED WASHER A16 IS2016/67	PUNCHED WASHER	A16	STEEL	IS 2016	41408	NO	336700
265	414080002000	PUNCHED WASHER A20 IS2016/67	PUNCHED WASHER	A20	STEEL	IS 2016	41408	NO	143800
266	414080003300	PUN WASHER A33 IS2016/67	PUNCHED WASHER	A33	STEEL	IS 2016	41408	NO	18300
267	414080003900	PUNCHED WASHER A39 IS2016/67	PUNCHED WASHER	A39	STEEL	IS 2016	41408	NO	1000
268	414090001200	TAP WASHER CHN 12 -IS 5372/75	TAPER WASHER	12	CARBON STEEL	IS 5372	41409	NO	112500
269	414090001600	TAP WASHER CHN 16 -IS 5372/75	TAPER WASHER	16	CARBON STEEL	IS 5372	41409	NO	30600
270	414110001600	PLN WASHER A16 - 50X17X3 IS 5370/69	PLAIN WASHER	A16-50X17X3	STEEL	IS 5370	41411	NO	191500
271	415010801800	KEY PRL RND END 8X5X18-IS2048/83	KEY PRL ROUND END	8X5X18	STEEL (TS>600MPa)	IS 2048	41501	NO	1000
272	415011207000	KEY PRL RND END 12X8X70 S2048/83	KEY PRL ROUND END	12X8X70	STEEL (TS>600MPa)	IS 2048	41501	NO	6500
273	415011406300	KEY PRL RND END 14X9X63 S2048/83	KEY PRL ROUND END	14X9X63	STEEL (TS>600MPa)	IS 2048	41501	NO	11200
274	416010000600	HD SCRU NS2X6 IS 7519/74	HAMMER DRIVE	NS2X6	STEEL	IS 7519	41601	NO	3000
275	417020602000	PIN CYL RND END 6X20 IS2393/80	PIN CYL ROUND END	6X20	C30	IS 2393	41702	NO	5000
276	417021003500	PIN CYL RND END 10X35,IS2393/80	PIN CYL ROUND END	10X35	C30	IS 2393	41702	NO	1000
277	417040402500	SPLIT PIN 4X25 IS 549	SPLIT PIN	4X25	MS	IS 549	41704	NO	2000
278	417040505600	SPLIT PIN 5X56 IS 549	SPLIT PIN	5X56	MS	IS 549	41704	NO	4000
279	417046080800	SPLIT PIN M8X80 IS549/74	SPLIT PIN	M8X80	MS	IS 549	41704	NO	1000
280	417046305600	SPLIT PIN M6.3X56 IS 549	SPLIT PIN	M6.3X56	MS	IS 549	41704	NO	3000
281	417070402000	HARDENED CYL PIN M4X20 IS6689	HARDENED CYL PIN	M4X20	STEEL	IS 6689	41707	NO	1000
282	417070406000	HARDENED CYL PIN M4X60 IS6689	HARDENED CYL PIN	M4X60	STEEL	IS 6689	41707	NO	1000
283	417090602000	GROOVED TAPER PIN 6X20, IS 7368	GROOVE TAPER PIN	6X20	WS	IS 7368	41709	NO	1000
284	418010501000	SNP HD RIVET 5X10 GR1 IS2998	SNAP HEAD RIVET	5X10	1-A	IS 2998	41801	NO	18000
285	418010804500	SNP HD RIVET 8X45 IS2998/82	SNAP HEAD RIVET	8X45	1-A	IS 2998	41801	NO	1000
286	418010805000	SNP RIVET HD 8X50, IS2998/82	SNAP HEAD RIVET	8X50	1-A	IS 2998	41801	NO	1000
287	418011001000	SNP HD RIVET 10X10 - IS2998/82	SNAP HEAD RIVET	10X10	1-A	IS 2998	41801	NO	2000
288	419010006500	INTERNAL CIRCLIP B 65 IS3075/6	INTERNAL CIRCLIP	B65	C 80	IS 3075	41901	NO	1000