 432-003	ENQUIRY VALVES	Bharat Heavy Electricals Limited (A Government of India undertaking) HIGH PRESSURE BOILER PLANT PURCHASE DEPARTMENT/VALVES TIRUCHIRAPPALLI-620 014.	Phone:0431-257 7086/7210 Email: tender_cell@bheltry.co.in vikasverma@bheltry.co.in vinu@bheltry.co.in	
		ENQUIRY NO.	DATE	DUE DATE FOR QUOTATION
		EN-STA-806	22.09.2015	16.10.2015
Please quote Enquiry No., and due date in all correspondences. This is only a request for quotation and not an order.				
<u>Date , Time & Venue of tender opening :</u> 16.10.2015 at 14.30 Hrs. at The Tender Opening Cell / Valves Room No. 26, Building -24 Bharat Heavy Electricals Limited Tiruchirappalli - 620014, Tamilnadu, India	<u>Scope of supply</u> Supply of Pins, Washers & Fasteners as per the drawings/standards/TDC enclosed. List of Annexures Annexure 1A- Scope of Supply Annexure 1B- Drawings/Standars & TDC Annexure 2- Terms & Conditions Annexure 3- Schedule of Deviation Format Annexure 4 A- Unpriced format Annexure 4 B- Priced format Note: Only manufacturers are requested to quote for this enquiry.			
The rate of Excise Duty and Sales Tax, Prevalent on the date of quotation, should be clearly indicated in the quotation itself. Please, submit your lowest quotation subjected to our terms and conditions, so as to reach us on or before the due date. (Latest by 14.00 Hrs. (IST) on the due date). The offers will be opened at 14.30 Hrs. (IST) on the due date in the presence of tenderers who may like to be present. Late tenders will not be considered.			Yours faithfully, For Bharat Heavy Electricals Ltd Vikas Verma Engineer/Purchase/Valves	



434-003

BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT / VALVES
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page : 1

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WEB : http://mm.bheltry.co.in

Vendor Code : 23505 Vendor Name : M/S Open Tender Dummy Code	Enquiry No EN-STA-806 - EN-STA-806	Enquiry Date 22.09.2015	Due Date for Quotation 16.10.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order			

Item	Description	Unit	Delivery Quantity	Schedule Date
SUPPLY OF THE FOLLOWING ITEMS AS PER THE DRAWINGS/STANDARDS GIVEN.				
10	964656140000 4V223027079/00 SCREW PLUG-2230 A182 F6A CL.3	NO	2,200.00	04.01.16
20	964656150000 4V223027080/00 SEALING NUT-2230 A182 F6A CL.3	NO	2,000.00	04.01.16
30	964656160000 4V590327081/00 LOCK NUT-5903 A194 2H	NO	5,000.00	04.01.16
40	964656170000 4V590427082/00 LOCK NUT-5904 A194 2H	NO	3,800.00	04.01.16
50	964656180000 4V223027083/00 LOCK NUT-2230 A182 F6A CL.3	NO	1,900.00	04.01.16
60	964656190000 4V590727084/00 LOCK NUT-5907 A194 2H	NO	500.00	04.01.16
70	964656200000 4V590627085/00 LOCK NUT-5906 A194 2H	NO	350.00	04.01.16
80	964661490000 3VR05721993/00 CASTLE NUT-R057	NO	10.00	04.01.16

The offers should reach us before the time of opening the tenders.
The offers will be opened at 14.30 hours on the due date in the presence of the tenderers who may like to be present .
Late tenders are liable to be rejected .

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE / VALVES

BHARAT HEAVY ELECTRICALS LIMITED

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90	964661510000 3VW40121993/00 CASTLE NUT-W401	NO	20.00	04.01.16
100	964661520000 3VW42521993/00 CASTLE NUT-W425	NO	60.00	04.01.16
110	964661530000 3VW34521993/00 CASTLE NUT-W345	NO	30.00	04.01.16
120	964661540000 3VW44121993/00 CASTLE NUT-W441	NO	10.00	04.01.16
130	964661560000 3VL00321888/00 PLUG	NO	20.00	04.01.16
140	964661570000 3VL01221888/00 PLUG	NO	10.00	04.01.16
150	964661580000 3VL16921888/00 PLUG	NO	10.00	04.01.16
160	964661590000 3VL17221888/00 PLUG	NO	10.00	04.01.16
170	964661600000 3VL41621888/00 PLUG	NO	10.00	04.01.16
180	964661620000 3VL19121887/00 PLUG A 182	NO	10.00	04.01.16
190	964661630000 3VL22121887/00 PLUG A 105	NO	10.00	04.01.16

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200	964661640000	3VL22321887/00 PLUG	NO	35.00	04.01.16
210	964661650000	3VL23721887/00 PLUG	NO	10.00	04.01.16
220	964661680000	3VL24721887/00 PLUG	NO	10.00	04.01.16
230	964661690000	3VL25321887/00 PLUG	NO	10.00	04.01.16
		A 105			
240	964661700000	3VL25521887/00 PLUG	NO	10.00	04.01.16
250	964661710000	3VL34121887/00 PLUG-L341	NO	10.00	04.01.16
260	964661730000	3VL43321887/00 PLUG	NO	10.00	04.01.16
270	964661740000	3VL43721887/00 PLUG	NO	10.00	04.01.16
280	964661750000	3VL40121887/00 PLUG	NO	10.00	04.01.16
290	964661760000	3VL43521887/00 PLUG	NO	10.00	04.01.16
		SA105			
300	964661770000	3V000221906/00 PIN	NO	15.00	04.01.16
310	964661780000	3V000321906/00 PIN	NO	125.00	04.01.16

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BHARAT HEAVY ELECTRICALS LIMITED

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320	964661790000	3V000421906/00	NO	700.00	04.01.16
	PIN				
330	964661800000	3V000521906/00	NO	750.00	04.01.16
	PIN				
340	964661810000	3V000621906/00	NO	550.00	04.01.16
	PIN				
350	964661820000	3V000821906/00	NO	150.00	04.01.16
	PIN				
360	964661830000	3VL11321906/00	NO	50.00	04.01.16
	PIN				
370	964661840000	3VR00121907/00	NO	10.00	04.01.16
	NUT				
380	964661850000	3VR00921907/00	NO	10.00	04.01.16
	NUT				
390	964661860000	3VL00121908/00	NO	50.00	04.01.16
	NUT				
400	964661870000	3VL00221908/00	NO	30.00	04.01.16
	NUT				
410	964661880000	3VL00321908/00	NO	25.00	04.01.16
	NUT				
420	964661890000	3VL02521908/00	NO	150.00	04.01.16
	NUT				

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EN-STA-806 / 22.09.2015				23505	
430	964661900000	3VL02921908/00	NO	35.00	04.01.16
	NUT				
440	964661910000	3VL03321908/00	NO	20.00	04.01.16
	NUT				
450	964661920000	3VL04921908/00	NO	25.00	04.01.16
	NUT				
460	964661930000	3VL14021908/00	NO	75.00	04.01.16
	NUT				
470	964661940000	3VL40121908/00	NO	10.00	04.01.16
	NUT				
	A182 F22				
480	964661950000	3VL41321908/00	NO	10.00	04.01.16
	NUT				
490	964661960000	3VL43321908/00	NO	10.00	04.01.16
	NUT				
500	964661970000	3VL43521908/00	NO	10.00	04.01.16
	NUT				
	A182 F22				
510	964661990000	3V000121909/00	NO	10.00	04.01.16
	WASHER				
520	964662000000	3V000221909/00	NO	15.00	04.01.16
	WASHER				
530	964662010000	3V000321909/00	NO	10.00	04.01.16
	WASHER				
540	964662020000	3V000421909/00	NO	30.00	04.01.16
	WASHER				

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MANAGER / PURCHASE / VALVES

BHARAT HEAVY ELECTRICALS LIMITED

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EN-STA-806 / 22.09.2015**23505**

550	964662030000	3V000521909/00	NO	60.00	04.01.16
	WASHER				
560	964662040000	3V000621909/00	NO	100.00	04.01.16
	WASHER				
570	964662050000	3V000721909/00	NO	20.00	04.01.16
	WASHER				
580	964662060000	3V001021909/00	NO	90.00	04.01.16
	WASHER				
590	964662070000	3V001221909/00	NO	15.00	04.01.16
	WASHER				
600	964662080000	3V001321909/00	NO	80.00	04.01.16
	WASHER				
610	964662090000	3V001421909/00	NO	25.00	04.01.16
	WASHER				
620	964662100000	3V000921910/00	NO	130.00	04.01.16
	WASHER				
630	964662110000	3V001021910/00	NO	275.00	04.01.16
	WASHER				
640	964662130000	3V001221910/00	NO	185.00	04.01.16
	WASHER				
650	964662140000	3V001321910/00	NO	40.00	04.01.16
	WASHER				

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For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE / VALVES

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660	964662150000	3V001421910/00	NO	75.00	04.01.16
	WASHER				
670	964662160000	3V001521910/00	NO	25.00	04.01.16
	WASHER				
680	964662170000	3V001621910/00	NO	80.00	04.01.16
	WASHER				
690	964662180000	3V001721910/00	NO	60.00	04.01.16
	WASHER				
700	964662190000	3V002021910/00	NO	10.00	04.01.16
	WASHER				
	A276 410				
710	964662200000	3VV07321910/00	NO	100.00	04.01.16
	WASHER				
720	964662210000	3VV23321910/00	NO	45.00	04.01.16
	WASHER				
730	964662220000	3VV40121910/00	NO	35.00	04.01.16
	WASHER				
740	964662230000	3VV44921910/00	NO	10.00	04.01.16
	WASHER				
750	964662240000	3V004421911/00	NO	10.00	04.01.16
	WASHER				
760	964662250000	3V003021911/00	NO	20.00	04.01.16
	WASHER				
770	964662260000	3V003421911/00	NO	10.00	04.01.16
	WASHER				

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MANAGER / PURCHASE / VALVES

BHARAT HEAVY ELECTRICALS LIMITED

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EN-STA-806 / 22.09.2015**23505**

780	964662270000	3V003821911/00	NO	10.00	04.01.16
	WASHER				
790	964662280000	3VV32921911/00	NO	5,100.00	04.01.16
	WASHER				
800	964662290000	3VR14121907/00	NO	10.00	04.01.16
	NUT				
810	964662300000	3VW00121914/00	NO	400.00	04.01.16
	EYE BOLT				
820	964662310000	4VL11319425/00	NO	300.00	04.01.16
	BOLT				
830	964662320000	3VG00421914/00	NO	250.00	04.01.16
	EYE BOLT				
840	964662330000	3VW04921914/00	NO	200.00	04.01.16
	EYE BOLT				
850	964662340000	3VW00221914/00	NO	200.00	04.01.16
	EYE BOLT				
860	964662350000	3VW06521914/00	NO	150.00	04.01.16
	EYE BOLT				
870	964662360000	3VG00221914/00	NO	150.00	04.01.16
	EYE BOLT				
880	964662370000	3VG04121914/00	NO	150.00	04.01.16
	EYE BOLT				

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MANAGER / PURCHASE / VALVES

BHARAT HEAVY ELECTRICALS LIMITED

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890	964662390000	3VW33721914/00	NO	80.00	04.01.16
	EYE BOLT				
900	964662400000	3VL07321914/00	NO	80.00	04.01.16
	EYE BOLT				
910	964662410000	3VW07721914/00	NO	50.00	04.01.16
	EYE BOLT				
920	964662420000	3VR02521914/00	NO	50.00	04.01.16
	EYE BOLT				
930	964662430000	3VR06521914/00	NO	50.00	04.01.16
	EYE BOLT				
940	964662440000	3VW40121914/00	NO	50.00	04.01.16
	EYE BOLT				
950	964662450000	3VW00321914/00	NO	50.00	04.01.16
	EYE BOLT				
960	964662460000	3V000721906/00	NO	50.00	04.01.16
	PIN				
970	964662470000	4VW72919426/00	NO	50.00	04.01.16
	BOLT				
980	964662480000	4VL11319423/00	NO	25.00	04.01.16
	NUT				
990	964662490000	2VL11318203/00	NO	25.00	04.01.16
	PINION				
1000	964662500000	4VR00119427/00	NO	20.00	04.01.16
	BOLT				

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1010	964662510000	3VW11321914/00	NO	20.00	04.01.16
	EYE BOLT				
1020	964662520000	3VR05720387/03	NO	15.00	04.01.16
	EYE BOLT				
1030	964662530000	3VW72921911/00	NO	10.00	04.01.16
	WASHER				
1040	964662540000	3VL40121909/00	NO	10.00	04.01.16
	WASHER				
1050	964662550000	3VL42821887/00	NO	10.00	04.01.16
	PLUG				
	A 105				
1060	964662570000	3VV08221915/00	NO	10.00	04.01.16
	PIN				
	SA105				
1070	964662580000	3VL41321888/00	NO	10.00	04.01.16
	PLUG				
1080	964662600000	3VV51421915/00	NO	10.00	04.01.16
	PIN				
	SA105				
1090	964662610000	3VWA8321915/00	NO	10.00	04.01.16
	PIN				
	SA105				
1100	964662630000	3VG00121993/00	NO	150.00	04.01.16
	CASTLE NUT-G001				
1110	964662640000	3VG00221993/00	NO	50.00	04.01.16
	CASTLE NUT-G002				

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1120	964662650000	3VG00321993/00 CASTLE NUT-G003	NO	50.00	04.01.16
1130	964662670000	3VW00221993/00 CASTLE NUT-W002	NO	50.00	04.01.16
1140	964662700000	3VW06521993/00 CASTLE NUT-W065	NO	90.00	04.01.16
1150	964662710000	3VG02221993/00 CASTLE NUT-G033	NO	200.00	04.01.16
1160	964662720000	3VG04121993/00 CASTLE NUT-G041	NO	125.00	04.01.16
1170	964662820000	WASHER	NO	100.00	04.01.16
1180	964662830000	3VG00121914/00 EYE BOLT	NO	95.00	04.01.16
General Note:					
1)The offers are invited in two parts.					
i)Commercial bid covering the commercial terms and conditions.					
ii)Price bid stating the price per unit in INR.					
2)Commercial bid will be opened first.					
3)Price bid will be opened only if the supplier is qualified commercially.					
4)The price quoted should be kept valid for 120 DAYS from the date of tender opening.					
5)LD @0.5% of the total PO value per week to a maximum of 10% of the total PO value will be levied in case of delay in the supply. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subjected to a maximum of 10% of the total order value.					
6)Annexure of the terms and conditions are enclosed.					
7)Drawings are enclosed.					
8)Delivery term should be strictly FOR/BHEL/Trichy					
9)Payment term should be 100% payment after 45 days on acceptance of					
The offers should reach us before the time of opening the tenders. The offers will be opened at 14.30 hours on the due date in the presence of the tenderers who may like to be present . Late tenders are liable to be rejected .				Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED MANAGER / PURCHASE / VALVES	



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PHONE :91-431-2577305
GRAMS : BHARATELEC
FAX NO: 91-431-2520383
E-mail : valpur@bheltry.co.in
WEB : http://mm.bheltry.co.in

EN-STA-806 / 22.09.2015

23505

the material at our stores.

10)The terms and conditions shall be strictly as per our enquiry only.

11)If any deviation is noticed against our enquiry terms and conditions ,your offer will be summarily rejected.

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

The offers should reach us before the time of opening the tenders.
The offers will be opened at 14.30 hours on the due date in the presence of the tenderers who may like to be present .
Late tenders are liable to be rejected .

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE / VALVES

Annexure-1A

Sl.No:	Material Code	Material Description	Drawing Number	Enquiry Qty	UoM	Net Weight (in Kg.)
1	964656140000	SCREW PLUG-2230	4V223027079	2200	NO	0.001
2	964656150000	SEALING NUT-2230	4V223027080	2000	NO	0.050
3	964656160000	LOCK NUT-5903	4V590327081	5000	NO	0.010
4	964656170000	LOCK NUT-5904	4V590427082	3800	NO	0.010
5	964656180000	LOCK NUT-2230	4V223027083	1900	NO	0.040
6	964656190000	LOCK NUT-5907	4V590727084	500	NO	0.020
7	964656200000	LOCK NUT-5906	4V590627085	350	NO	0.020
8	964661490000	CASTLE NUT-R057	3VR05721993	10	NO	1.570
9	964661510000	CASTLE NUT-W401	3VW40121993	20	NO	2.600
10	964661520000	CASTLE NUT-W425	3VW42521993	60	NO	1.200
11	964661530000	CASTLE NUT-W345	3VW34521993	30	NO	1.520
12	964661540000	CASTLE NUT-W441	3VW44121993	10	NO	1.800
13	964661560000	PLUG	3VL00321888	20	NO	1.890
14	964661570000	PLUG	3VL01221888	10	NO	1.890
15	964661580000	PLUG	3VL16921888	10	NO	2.370
16	964661590000	PLUG	3VL17221888	10	NO	0.350
17	964661600000	PLUG	3VL41621888	10	NO	0.440
18	964661620000	PLUG	3VL19121887	10	NO	0.770
19	964661630000	PLUG	3VL22121887	10	NO	4.120
20	964661640000	PLUG	3VL22321887	35	NO	0.570
21	964661650000	PLUG	3VL23721887	10	NO	1.430
22	964661680000	PLUG	3VL24721887	10	NO	1.590
23	964661690000	PLUG	3VL25321887	10	NO	1.890
24	964661700000	PLUG	3VL25521887	10	NO	1.890
25	964661710000	PLUG	3VL34121887	10	NO	0.770
26	964661730000	PLUG	3VL43321887	10	NO	0.770
27	964661740000	PLUG	3VL43721887	10	NO	0.450
28	964661750000	PLUG	3VL40121887	10	NO	12.650
29	964661760000	PLUG	3VL43521887	10	NO	8.500
30	964661770000	PIN	3V000221906	15	NO	0.010
31	964661780000	PIN	3V000321906	125	NO	0.020
32	964661790000	PIN	3V000421906	700	NO	0.040
33	964661800000	PIN	3V000521906	750	NO	0.070
34	964661810000	PIN	3V000621906	550	NO	0.100
35	964661820000	PIN	3V000821906	150	NO	0.230
36	964661830000	PIN	3VL11321906	50	NO	0.067
37	964661840000	NUT	3VR00121907	10	NO	0.580
38	964661850000	NUT	3VR00921907	10	NO	0.690
39	964661860000	NUT	3VL00121908	50	NO	0.160
40	964661870000	NUT	3VL00221908	30	NO	0.380

Annexure-1A

Sl.No:	Material Code	Material Description	Drawing Number	Enquiry Qty	UoM	Net Weight (in Kg.)
41	964661880000	NUT	3VL00321908	25	NO	0.970
42	964661890000	NUT	3VL02521908	150	NO	0.090
43	964661900000	NUT	3VL02921908	35	NO	1.660
44	964661910000	NUT	3VL03321908	20	NO	3.380
45	964661920000	NUT	3VL04921908	25	NO	0.070
46	964661930000	NUT	3VL14021908	75	NO	0.710
47	964661940000	NUT	3VL40121908	10	NO	18.000
48	964661950000	NUT	3VL41321908	10	NO	0.160
49	964661960000	NUT	3VL43321908	10	NO	0.090
50	964661970000	NUT	3VL43521908	10	NO	7.240
51	964661990000	WASHER	3V000121909	10	NO	0.720
52	964662000000	WASHER	3V000221909	15	NO	0.420
53	964662010000	WASHER	3V000321909	10	NO	0.190
54	964662020000	WASHER	3V000421909	30	NO	0.070
55	964662030000	WASHER	3V000521909	60	NO	0.040
56	964662040000	WASHER	3V000621909	100	NO	0.020
57	964662050000	WASHER	3V000721909	20	NO	0.010
58	964662060000	WASHER	3V001021909	90	NO	0.022
59	964662070000	WASHER	3V001221909	15	NO	0.012
60	964662080000	WASHER	3V001321909	80	NO	0.096
61	964662090000	WASHER	3V001421909	25	NO	0.416
62	964662100000	WASHER	3V000921910	130	NO	0.070
63	964662110000	WASHER	3V001021910	275	NO	0.070
64	964662130000	WASHER	3V001221910	185	NO	0.110
65	964662140000	WASHER	3V001321910	40	NO	0.130
66	964662150000	WASHER	3V001421910	75	NO	0.120
67	964662160000	WASHER	3V001521910	25	NO	0.150
68	964662170000	WASHER	3V001621910	80	NO	0.160
69	964662180000	WASHER	3V001721910	60	NO	0.160
70	964662190000	WASHER	3V002021910	10	NO	0.580
71	964662200000	WASHER	3VV07321910	100	NO	0.180
72	964662210000	WASHER	3VV23321910	45	NO	0.150
73	964662220000	WASHER	3VV40121910	35	NO	0.400
74	964662230000	WASHER	3VV44921910	10	NO	2.000
75	964662240000	WASHER	3V004421911	10	NO	0.180
76	964662250000	WASHER	3V003021911	20	NO	0.060
77	964662260000	WASHER	3V003421911	10	NO	0.110
78	964662270000	WASHER	3V003821911	10	NO	0.210
79	964662280000	WASHER	3VV32921911	5100	NO	0.020
80	964662290000	NUT	3VR14121907	10	NO	1.130

Annexure-1A

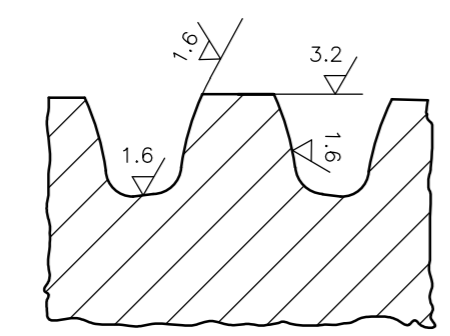
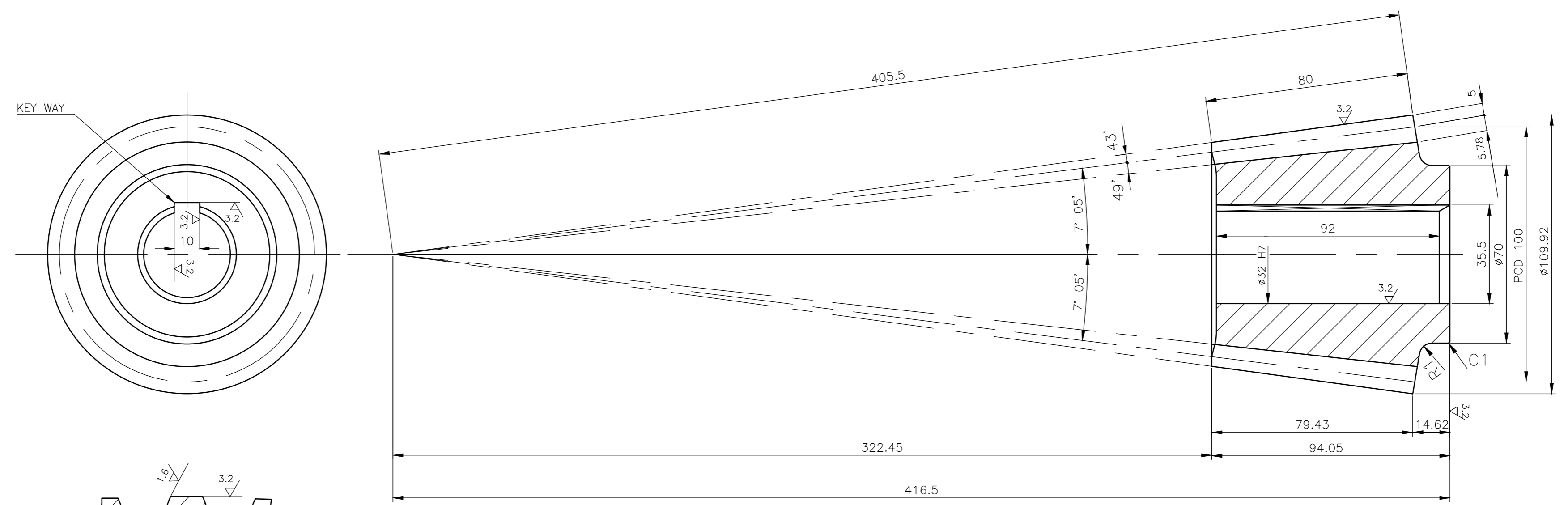
Sl.No:	Material Code	Material Description	Drawing Number	Enquiry Qty	UoM	Net Weight (in Kg.)
81	964662300000	EYE BOLT	3VW00121914	400	NO	0.370
82	964662310000	BOLT	4VL11319425	300	NO	0.020
83	964662320000	EYE BOLT	3VG00421914	250	NO	0.550
84	964662330000	EYE BOLT	3VW04921914	200	NO	1.000
85	964662340000	EYE BOLT	3VW00221914	200	NO	0.600
86	964662350000	EYE BOLT	3VW06521914	150	NO	1.600
87	964662360000	EYE BOLT	3VG00221914	150	NO	0.850
88	964662370000	EYE BOLT	3VG04121914	150	NO	0.180
89	964662390000	EYE BOLT	3VW33721914	80	NO	0.640
90	964662400000	EYE BOLT	3VL07321914	80	NO	2.460
91	964662410000	EYE BOLT	3VW07721914	50	NO	3.900
92	964662420000	EYE BOLT	3VR02521914	50	NO	0.200
93	964662430000	EYE BOLT	3VR06521914	50	NO	0.530
94	964662440000	EYE BOLT	3VW40121914	50	NO	0.960
95	964662450000	EYE BOLT	3VW00321914	50	NO	1.000
96	964662460000	PIN	3V000721906	50	NO	0.170
97	964662470000	BOLT	4VW72919426	50	NO	0.196
98	964662480000	NUT	4VL11319423	25	NO	18.500
99	964662490000	PINION	2VL11318203	25	NO	3.900
100	964662500000	BOLT	4VR00119427	20	NO	0.010
101	964662510000	EYE BOLT	3VW11321914	20	NO	0.750
102	964662520000	EYE BOLT	3VR05720387	15	NO	0.440
103	964662530000	WASHER	3VW72921911	10	NO	0.370
104	964662540000	WASHER	3VL40121909	10	NO	1.360
105	964662550000	PLUG	3VL42821887	10	NO	1.080
106	964662570000	PIN	3VV08221915	10	NO	0.300
107	964662580000	PLUG	3VL41321888	10	NO	0.440
108	964662600000	PIN	3VV51421915	10	NO	0.300
109	964662610000	PIN	3VWA8321915	10	NO	1.240
110	964662630000	CASTLE NUT-G001	3VG00121993	150	NO	1.440
111	964662640000	CASTLE NUT-G002	3VG00221993	50	NO	1.540
112	964662650000	CASTLE NUT-G003	3VG00321993	50	NO	1.820
113	964662670000	CASTLE NUT-W002	3VW00221993	50	NO	2.190
114	964662700000	CASTLE NUT-W065	3VW06521993	90	NO	3.410
115	964662710000	CASTLE NUT-G033	3VG03321993	200	NO	0.700
116	964662720000	CASTLE NUT-G041	3VG04121993	125	NO	0.660
117	964662820000	WASHER	3V001120704	100	NO	0.100
118	964662830000	EYE BOLT	3VG00121914	95	NO	1.000

2-V-0000-18203
DRAWING NO.

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

12.5 / 3.2 / 1.6

Ø32 H7 +0.025 / 0



DETAIL OF SURFACE FINISH OF TOOTH PROFILE

PINION TOOTH DATA	
NO. OF TEETH	20
MODULE	5
PRESSURE ANGLE	20° (FULL DEPTH)
PITCH ANGLE	7° 05'
PITCH DIA	100
ADDENDUM	5
WHOLE DEPTH	10.78
PROFILE	INVOLUTE

GEAR WHEEL DETAIL	
GEAR WHEEL DRG. NO	2-V-L113-15351
NO. OF TEETH	161
SHAFT ANGLE	90°

REV	DATE	ALTERED
		CHD & APPD
ZONE		

01	2-V-L113-18203	A193 - B7 QT,CERTIFY	96 466 249 0000	3.9					
SL. No.	DRAWING No.	MATL. SPECN.	MATL. CODE	NET WT (KG)					
No OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No

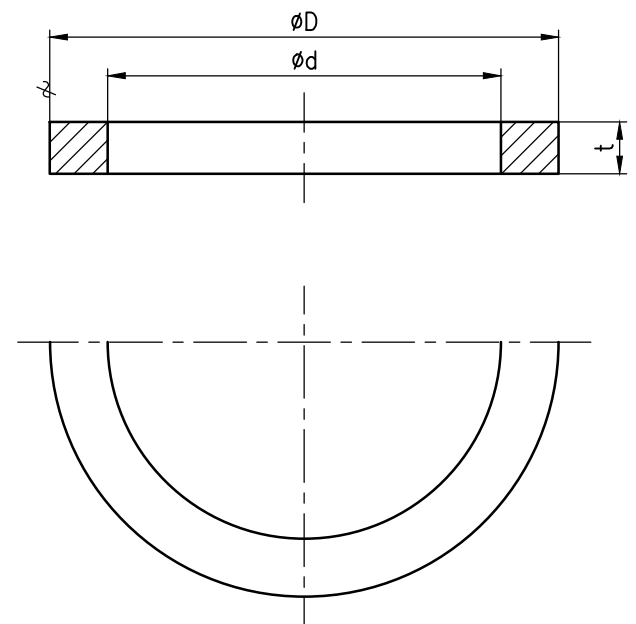
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
BHARAT HEAVY ELECTRICALS LTD. UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI - 620014.					
DRN	V.BAIRAVAN	SIGN	DATE	23.07.14	NO.OF VAR.
CHD	S.SATHEES		DATE	23.07.14	
APPD	K.RAJASEKARAN		DATE	23.07.14	
DEPT	VL	SCALE	WEIGHT (KG)	REFERENCE INFORMATION	NO. OF ITEMS
CODE	320	NTS			
TITLE	PINION			CARD CODE	REV
				U 01	
				DRAWING NO.	
				2-V-0000-18203	

3-V-0000-20704/4
DRAWING NO.

3.2 / R

SL.No.	DRAWING NO.	RAW MATERIAL				DIMENSIONS			FINISHED WT IN KG.	COMP. CODE
		SUGGESTED SIZE	SPECN.	CODE	WT (KG.)	∅D	∅d	t		
1	3-V-0001-20704/2	∅45X8	A 276 - 410 CERTIFY	15024393	0.10	44	34	3	0.01	93 111 138 0000
2	3-V-0002-20704/2	∅56X8		15024272	0.15	52	39	3	0.02	93 111 139 0000
3	3-V-0003-20704/2	∅56X8		15024272	0.15	56	43.5	3	0.02	93 111 140 0000
4	3-V-0004-20704/2	∅75X8		-	0.28	72	51	3	0.05	93 111 141 0000
5	3-V-0005-20704/2	∅75X8		-	0.28	75	57	3	0.04	93 111 142 0000
6	3-V-0006-20704/2	∅80X8		15024115	0.32	80	61	3	0.05	93 111 143 0000
7	3-V-0007-20704/2	∅90X8		-	0.40	88	66	3	0.06	93 111 144 0000
8	3-V-0008-20704/2	∅100X8		15024217	0.49	95	69	3	0.08	93 111 145 0000
9	3-V-0009-20704/2	∅100X8		15024217	0.49	95	72.5	3	0.07	93 111 146 0000
10	3-V-0010-20704/2	∅100X8		15024217	0.49	98	76	3	0.07	93 111 147 0000
11	3-V-0011-20704/2	∅115X8		15024220	0.65	110	81	3	0.10	93 111 148 0000
12	3-V-0012-20704/2	∅115X8		15024220	0.65	115	86	3	0.11	93 111 149 0000
13	3-V-0013-20704/2	∅125X8		15024420	0.77	125	93	3	0.13	93 111 150 0000
14	3-V-0014-20704/2	∅125X8		15024420	0.77	125	96	3	0.12	93 111 151 0000
15	3-V-0015-20704/2	∅140X10		-	1.21	135	101	4	0.15	93 111 152 0000
16	3-V-0016-20704/2	∅145X10		-	1.30	145	111	4	0.16	93 111 153 0000
17	3-V-0017-20704/2	∅150X10		-	1.39	148	116	4	0.16	93 111 154 0000
18	3-V-0018-20704/2	∅110X8		-	0.60	105	79	3	0.09	93 111 155 0000
19	3-V-0019-20704/2	∅100X12		15924217	0.74	98	54	8	0.33	93 111 755 0000
20	3-V-0020-20704/1	∅210X10		-	2.93	200	146	5	0.58	93 123 996 0000
21	3-V-0021-20704/1	290X290-10		SA240 TYPE 310, NR. CERTIFY	15011724	6.60	280	213	7	1.42



REDRAWN WITH REV.1 ON 12.04.08

NOTE: LIQUID NITRIDING TO A DEPTH OF 0.1 TO 0.2mm ON ALL SURFACES
 (APPROXIMATE HARDNESS - 750-800 VICKERS)

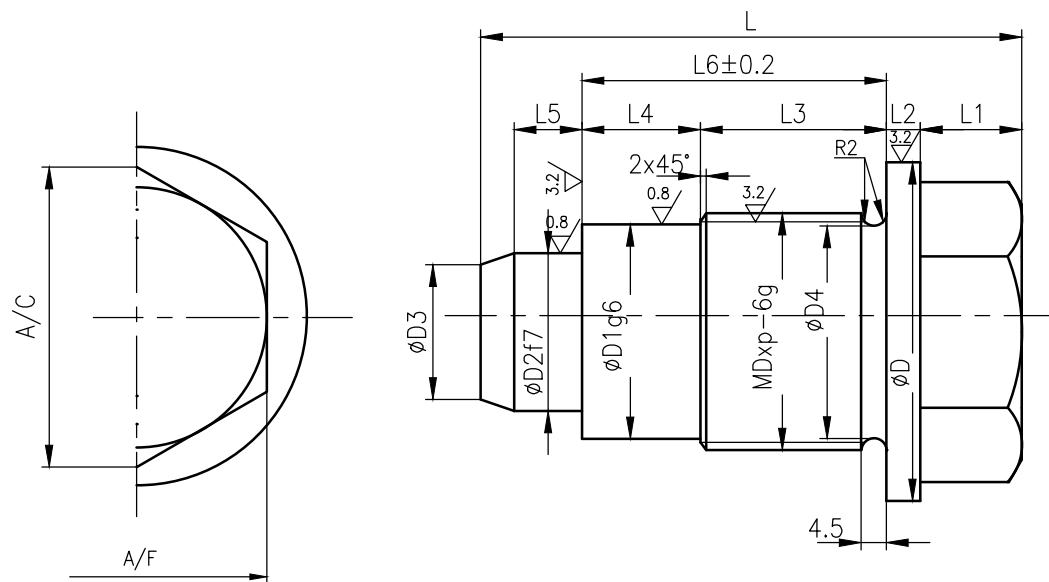
REV	DATE	ALTERED VB	REV	DATE	ALTERED VB
4	01.09.14	CHD & APPD SSK & KRS	3	15.11.10	CHD & APPD SSK & KRS
IN NOTE LIQUID NITRIDING WAS TUFFTRIDING			SL.No.21 INCLUDED.		
DCP No.801803					
2	29.12.08	CHD & APPD KRS & MRK	1	12.04.08	CHD & APPD KRS&MRK
SL.No.20 INCLUDED.			DRAWING CONVERTED INTO SOFT COPY		
			DCP No.800813		

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NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT								
	BHARAT HEAVY ELECTRICALS LTD. UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.	DRN	V.BAIRAVAN	SIGN		DATE	12.04.08	NO.OF VAR.	
		CHD	K.RAJASEKARAN			DATE	12.04.08		
		APPD	M.RAJAKUMAR			DATE	12.04.08		
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION			NO. OF ITEMS		
CODE		N T S							
TITLE	WASHER			CARD CODE	DRAWING NO.			REV	
	U 01	3-V-0000-20704						4	

3-V-0000-21887
DRAWING NO.

SL. No.	DRAWING No.	COMP. CODE	MATL. SPECN.	DIMENSIONS														NET WT.(Kg.)	SIZE/RATING	ØD1 OVER UPTO & INCL.	g6		
				ØD	MDxP-6g	ØD1-g6	ØD2-f7	ØD3	ØD4	L	L1	L2	L3	L4	L5	A/C	A/F					L6±0.2	
01	3-V-L189-21887	964661610000	A105, NR	CERTIFY	34	M30x3	26	16	15	25.8	68	14	5	22	16	8	27.7	24	38	0.26	65/1500,80/1500	24-30	-0.007 -0.020
02	3-V-L191-21887	964661620000	A182 F22 CL.3, NT		50	M39x3	34	24	23	34.8	85	16	5	32	12	12	47.3	41	44	0.57	150/1500,200/1500	30-50	-0.009 -0.025
03	3-V-L221-21887	964661630000	A105, NR		65	M48x3	42	32	31	43.8	108	20	8	40	21	12	57.7	50	61	1.43	250/1500	50-65	-0.010 -0.029
04	3-V-L223-21887	964661640000	A182 F22 CL.3, NT		65	M52x3	46	36	34	47.8	116	20	8	45	12	17	57.7	50	57	1.59	300/1500		
05	3-V-L237-21887	964661650000	A105, NR		65	M56x3	50	40	39	51.8	119	20	8	50	23	11	57.7	50	73	1.89	350/1500,350/2500	14-18	-0.016 -0.034
06	3-V-L239-21887	964661660000	A182 F22 CL.3, NT		80	M70x3	63	53	51	65.8	158	25	8	65	23	30	75	65	88	4.12	450/2500	18-30	-0.020 -0.041
07	3-V-L245-21887	964661670000	A105, NR		34	M30x3	26	16	15	25.8	68	14	5	22	16	8	27.7	24	38	0.26	80/2850	30-50	-0.025 -0.050
08	3-V-L247-21887	964661680000	A182 F22 CL.3, NT		40	M36x3	30	20	19	31.8	76	16	5	28	16	8	34.6	30	44	0.45	100/2500	50-80	-0.030 -0.060
09	3-V-L253-21887	964661690000	A105, NR		160	M95x3	87	72		90.8	179	25	10	85	35	24	155.7	136	120	12.65	600/3000 SPL		
10	3-V-L255-21887	964661700000	A182 F22 CL.3, NT		150	M80x3	73	62		75.8	153	25	10	80	50	23	138.5	121	95	8.5	550/2500		
11	3-V-L341-21887	964661710000	A105, NR																				
12	3-V-L343-21887	964661720000	A182 F22 CL.3, NT																				
13	3-V-L433-21887	964661730000	A182 F316, SH																				
14	3-V-L437-21887	964661740000	A182 F316, SH																				
15	3-V-L401-21887	964661750000	A105, NR																				
16	3-V-L435-21887	964661760000	A105, NR																				



REV	DATE	ALTERED
		CHD & APPD

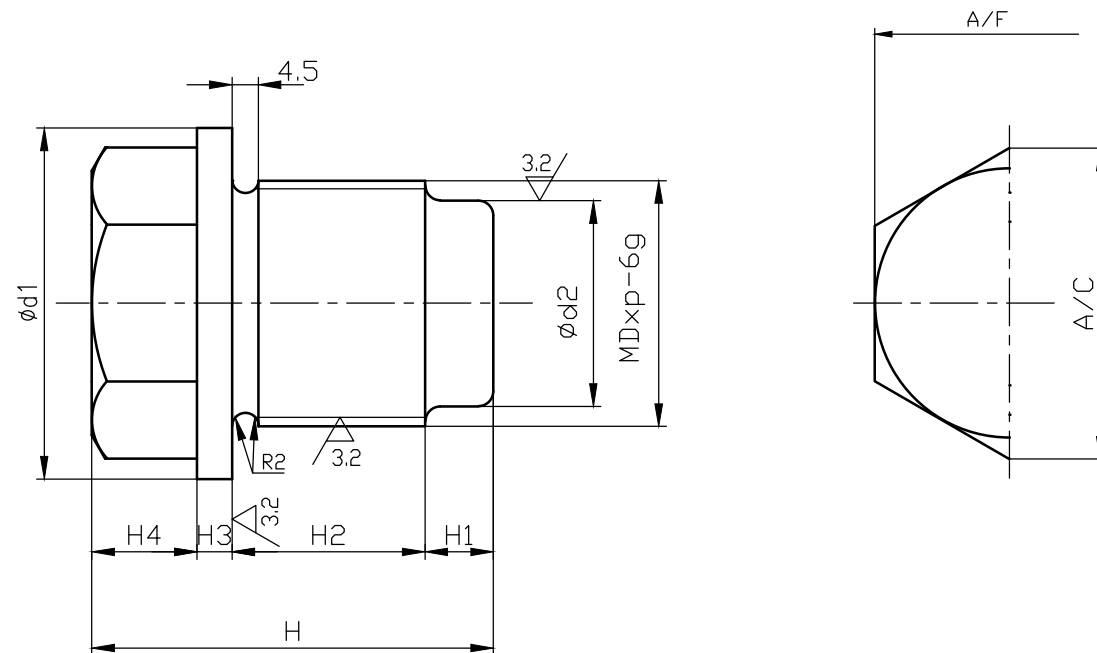
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NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT								
	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.	DRN	R.RAVINDHAR	SIGN	DATE	NO. OF VAR.			
		CHD	S.SATHEES		08.03.14				
		APPD	K.RAJASEKARAN		08.03.14				
DEPT	VL	SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE	320	N T S	-						
TITLE	PLUG			CARD CODE	DRAWING NO.	REV			
			U 01		3-V-0000-21887	00			

88817-0000-A-2
DRAWING NO.

3.2 / 3.2

SL. No.	DRAWING No.	COMP. CODE	MATL. SPECN.	MATL.MARK * TO BE PUNCHED	DIMENSIONS										NET WT.(Kg.)	SIZE/RATING	
					MDxP-6g	ød1	ød2	A/C	A/F	H	H1	H2	H3	H4			
01	3-V-L003-21888	964661560000	SA105, NR	CERTIFY	A105	M56x3	65	39	57.7	50	118	40	50	8	20	1.89	300&350/2500
02	3-V-L012-21888	964661570000	SA182 F22, NT		F22	M56x3	65	39	57.7	50	118	40	50	8	20	1.89	300&350/2500
03	3-V-L169-21888	964661580000	SA105, NR		A105	M56x3	80	50	72.7	63	102	10	55	12	25	2.37	400/2500
04	3-V-L172-21888	964661590000	SA182 F22, NT		F22	M56x3	80	50	72.7	63	102	10	55	12	25	2.37	400/2500
05	3-V-L416-21888	964661600000	SA182 F316, SH		F316	M39x3	50	24	47.3	41	75	10	43	5	16	0.44	150/3500



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No

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 the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

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

DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR.
CHD	S.SATHEES		10.03.14	
APPD	K.RAJASEKARAN		10.03.14	

DEPT VL	SCALE	WEIGHT (KG).	REFERENCE INFORMATION	NO. OF ITEMS
CODE 320	N T S			

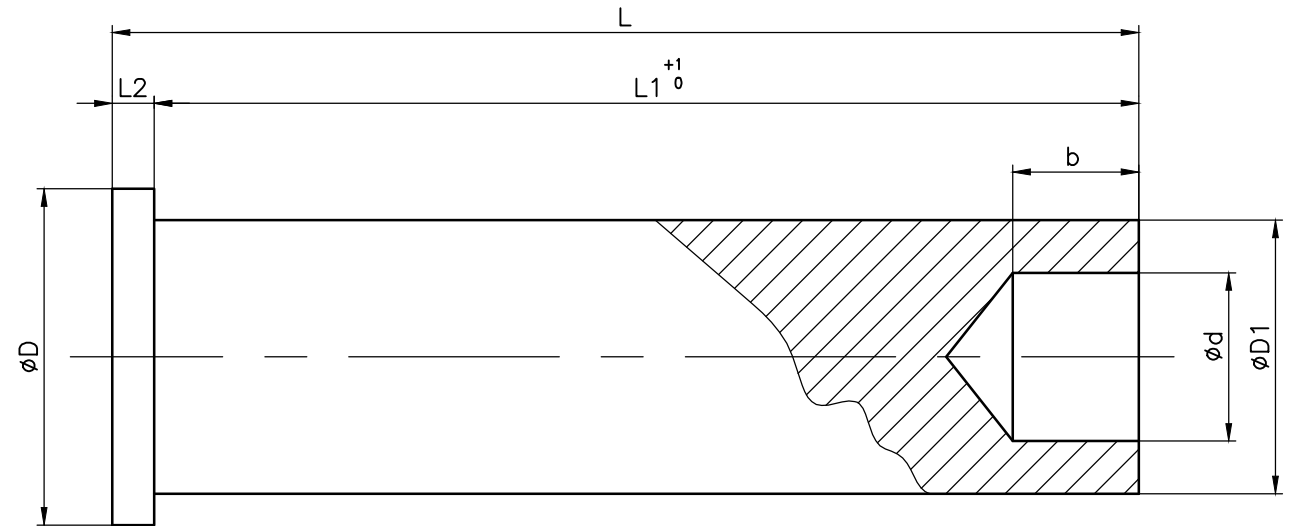
TITLE: **PLUG**

CARD CODE	DRAWING NO.	REV
U 01	3-V-0000-21888	00

REV	DATE	ALTERED
		CHD & APPD


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

90612-0000-A-3 DRAWING NO.			MATL. SPECN.	DIMENSIONS							FINISH WT(Kg)
SL.NO.	DRAWING NO.	COMP.CODE		∅D	∅D1	∅d	L	L1 ⁺¹ ₀	L2	b	
01	3-V-0002-21906	964661770000	IS 1875 CL.4	9	7.5	5	31	30	1	4	0.01
02	3-V-0003-21906	964661780000		12	10.5	8	40	38	2	4	0.02
03	3-V-0004-21906	964661790000		16	12.5	10	55	53	2	5	0.04
04	3-V-0005-21906	964661800000		19	15.5	13	62	60	2	5	0.07
05	3-V-0006-21906	964661810000		21	17.5	15	68	66	2	5	0.10
06	3-V-0008-21906	964661820000		28	23.5	21	85	83	2	5	0.23
07	3-V-L113-21906	964661830000		20	16.5	14	43	41	2	6	0.067



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
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TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014. 365-121	DRN	NAME	SIGN	DATE	NO. OF VAR.
	CHD	V.BAIRAVAN		18.03.14	
	APPD	S.SATHEESKUMAR		18.03.14	

DEPT	SCALE	WEIGHT (KG).	REFERENCE INFORMATION	NO. OF ITEMS
VL	N.T.S			

TITLE	CARD CODE	DRAWING NO.	REV
PIN	U 01	3-V-0000-21906	

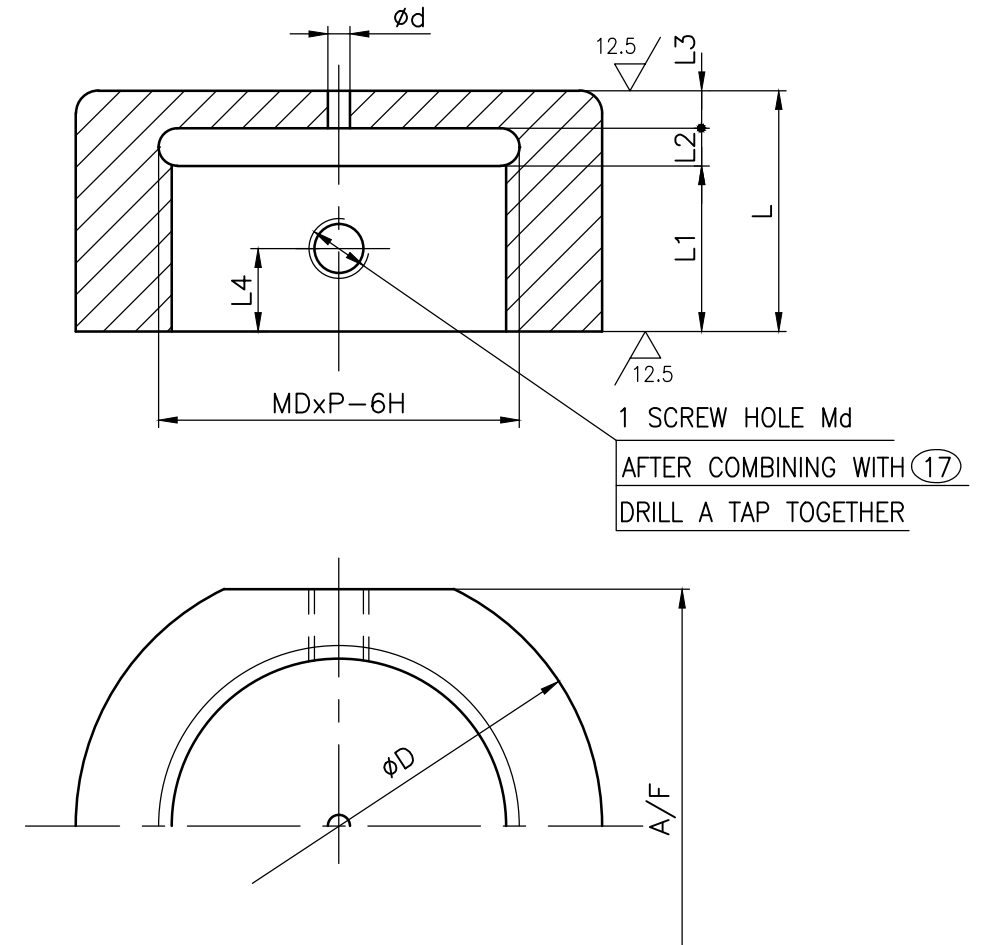
REV	DATE	ALTERED
		CHD & APPD

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 the company.

3-V-0000-21907
DRAWING NO.

20 3.2 / 12.5

SL.NO.	DRAWING NO.	COMP.CODE	MATL. SPECN.	DIMENSIONS										FINISH WT(Kg)
				∅D	∅d	L	L1	L2	L3	L4	A/F	Md	MDxP	
01	3-V-R001-21907	964661840000	A105, NR CERTIFY	70	-	32	22	5	5	11	63	M8	M48x2	0.58
02	3-V-R009-21907	964661850000		75	-	34	24	5	5	12	67	M8	M52x2	0.69
03	3-V-R141-21907	964662290000		90	3	38	28	5	5	14	80	M8	M62x2	1.13



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.	DRN	V.BAIRAVAN	SIGN	DATE	NO.OF VAR.
	CHD	S.SATHEESKUMAR		18.03.14	
	APPD	K.RAJASEKARAN		18.03.14	

REV	DATE	ALTERED
		CHD & APPD

DEPT VL	SCALE N.T.S	WEIGHT (KG)	REFERENCE INFORMATION	NO. OF ITEMS
CODE 320				
TITLE NUT	CARD CODE U 01	DRAWING NO. 3-V-0000-21907	REV	

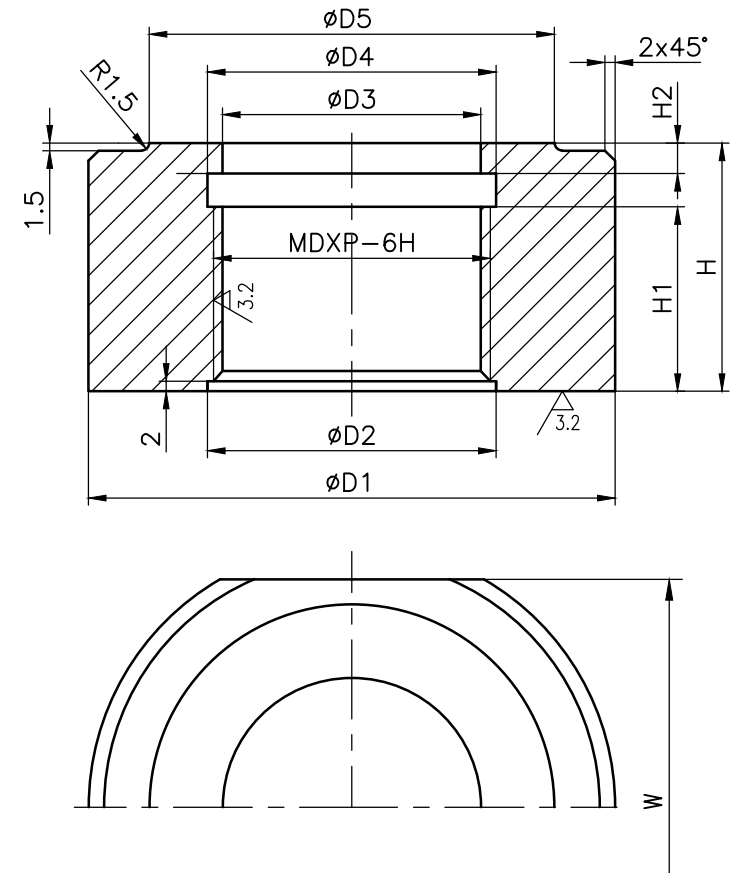
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ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

80617-0000-A-3
DRAWING NO.

8 12.5 / 3.2

SL No.	DRAWING No.	COMP. CODE	SPECN	DIMENSIONS										NET WT.(KG)	SIZE/RATING
				ØD1	ØD2	ØD3	ØD4	ØD5	MDXP-6H	H	H1	H2	W		
01	3-V-L001-21908	964661860000	A182 F22,NT, CERTIFY	47	25	19	25	34	M24X3	25	15	5	41	0.16	150/2500, 125/1500
02	3-V-L002-21908	964661870000		58	31	24	31	44	M30X3	30	20	5	50	0.38	200/2500,150/1500
03	3-V-L003-21908	964661880000		87	49	41	49	65	M48X3	40	30	5	75	0.97	250/1500,300/2500 300/1500
04	3-V-L025-21908	964661890000		37	21	16	21	29	M20X2.5	20.5	13.5	3	32	0.09	80/1500,80/2500,125/2500 100/1500,100/2500
05	3-V-L029-21908	964661900000		104	57	51	57	80	M56X3	49	38	6	90	1.66	350/1500,350/2500 400/2500
06	3-V-L033-21908	964661910000		122	69	62	69	95	M68X3	63	52	8	105	3.38	450/2500
07	3-V-L049-21908	964661920000		32	17	13	17	23	M16X2	17.5	11.5	3	27	0.07	65/1500,65/2500
08	3-V-L140-21908	964661930000		68	37	31	37	50	M36X3	35	25	5	60	0.71	200/1500,250/2500
09	3-V-L401-21908	964661940000		175	91	77	94	120	M90X3	83	70	8	150	11.5	600/3000SPL
10	3-V-L413-21908	964661950000	A182 F91 NT, CERTIFY	47	25	19	25	34	M24X3	25	15	5	41	0.16	150/3500
11	3-V-L433-21908	964661960000		37	21	16	21	29	M20X2.5	20.5	13.5	3	32	0.09	80/2500
12	3-V-L435-21908	964661970000	A182 F22 NT, CERTIFY	150	81	72	82	105	M80X3	74	62	8	130	7.24	550/2500
13	3-V-Z077-21908	964661980000		220	121	105	125	140	M120x3	90	75	10	190	18.6	950/300CL



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT TA										
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.						DRN	V.BAIRAVAN	SIGN	DATE	NO.OF VAR.
						CHD	S.SATHEES		18.03.14	
						APPD	K.RAJASEKARAN		18.03.14	
DEPT	VL	SCALE		WEIGHT (KG).		REFERENCE INFORMATION				NO. OF ITEMS
CODE	320	N T S								
TITLE						CARD CODE	DRAWING NO.			REV
NUT						U 01	3-V-0000-21908			

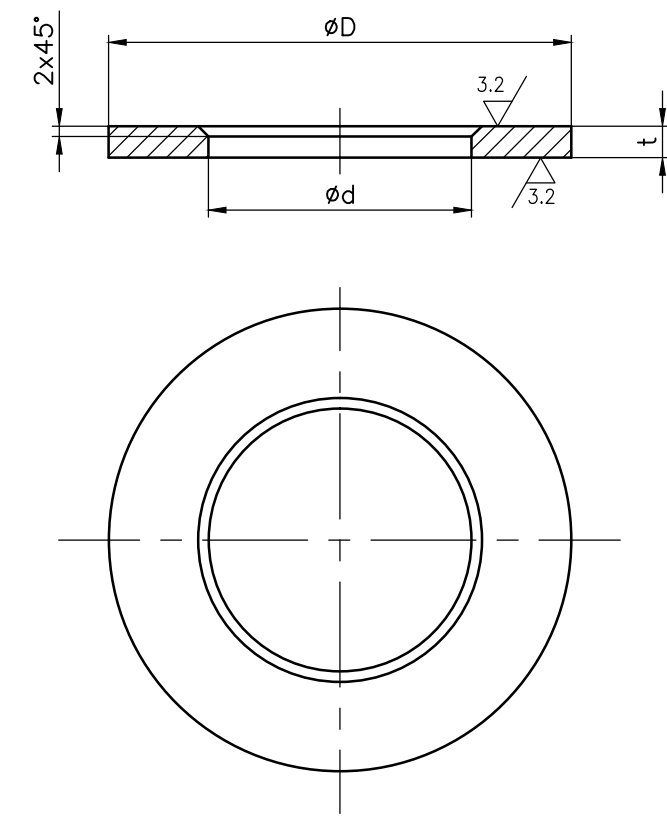
REV	DATE	ALTERED
		CHD & APPD

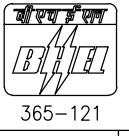
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ALL DIMENSIONS ARE IN MILLIMETRES. FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP / QP.

20 12.5 / 3.2

60612-0000-A-3 DRAWING NO.			MATL. SPECN.	DIMENSIONS			FINISH WT(Kg)
SL.NO.	DRAWING NO.	COMP. CODE		∅D	∅d	t	
01	3-V-0001-21909	964661990000	A276-410, AN, CERTIFY	140	70	8	0.72
02	3-V-0002-21909	964662000000		110	59	8	0.42
03	3-V-0003-21909	964662010000		88	50	6	0.19
04	3-V-0004-21909	964662020000		58	31.5	4.5	0.07
05	3-V-0005-21909	964662030000		48	25.5	4	0.04
06	3-V-0006-21909	964662040000		40	21	3.2	0.02
07	3-V-0007-21909	964662050000		32	17	2.6	0.01
08	3-V-0010-21909	964662060000		40	22	3.2	0.022
09	3-V-0012-21909	964662070000		32	18	2.6	0.012
10	3-V-0013-21909	964662080000		68	39	5	0.096
11	3-V-0014-21909	964662090000		110	60.5	8	0.412



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014. 365-121						DRN	NAME	SIGN	DATE	NO.OF VAR.
						CHD	V.BAIRAVAN		19.03.14	
						APPD	S.SATHEESKUMAR		19.03.14	
						APPD	K.RAJASEKARAN		19.03.14	
DEPT	VL	SCALE		WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE	320	N.T.S								
TITLE						CARD CODE	DRAWING NO.		REV	
WASHER						U 01	3-V-0000-21909			

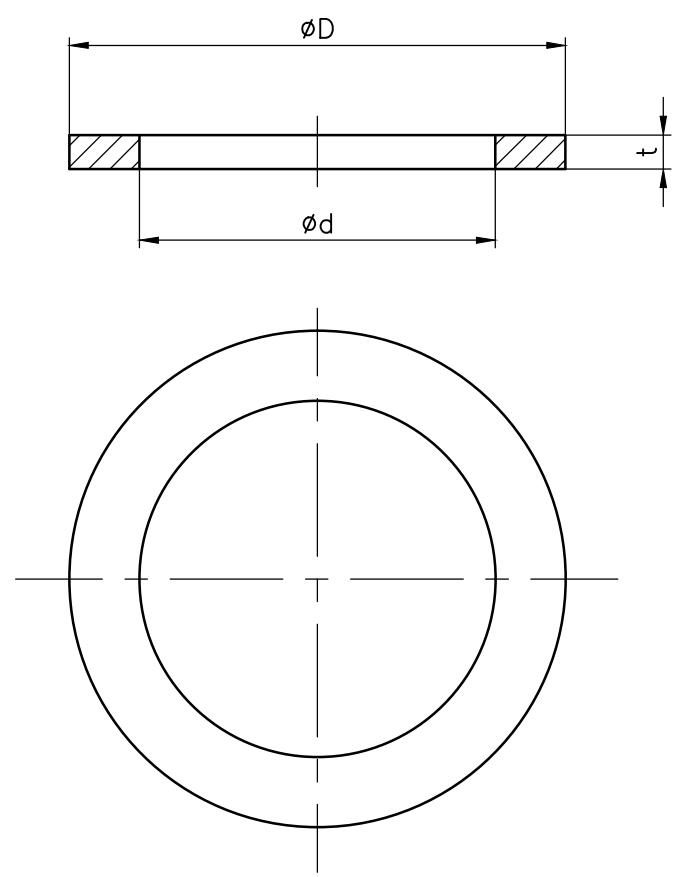
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REV	DATE	ALTERED
		CHD & APPD

01612-0000-A-3
DRAWING NO

3.2 /

SL.NO.	DRAWING NO.	COMP. CODE	MATL. SPECN.	DIMENSIONS			FINISH WT(Kg)
				∅D	∅d	t	
01	3-V-0009-21910	964662100000	A276-410, NR, CERTIFY	95	72.5	3	0.07
02	3-V-0010-21910	964662110000		98	76	3	0.07
03	3-V-0011-21910	964662120000		110	81	3	0.10
04	3-V-0012-21910	964662130000		115	86	3	0.11
05	3-V-0013-21910	964662140000		125	93	3	0.13
06	3-V-0014-21910	964662150000		125	96	3	0.12
07	3-V-0015-21910	964662160000		135	101	4	0.15
08	3-V-0016-21910	964662170000		145	111	4	0.16
09	3-V-0017-21910	964662180000		148	116	4	0.16
10	3-V-0020-21910	964662190000		200	146	5	0.58
11	3-V-V073-21910	964662200000		160	125	3	0.18
12	3-V-V233-21910	964662210000		140	110	3	0.15
13	3-V-V401-21910	964662220000		135	87	6	0.4
14	3-V-V449-21910	964662230000	SA240 TYPE310 NR, CERTIFY	325	227	6	2.0



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

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

365-121

DRN	V.BAIRAVAN	SIGN	DATE	NO.OF VAR.
CHD	S.SATHEESKUMAR		19.03.14	
APPD	K.RAJASEKARAN		19.03.14	

DEPT	VL	SCALE	WEIGHT (KG).	REFERENCE INFORMATION	NO. OF ITEMS
CODE	320	N.T.S			

TITLE: WASHER

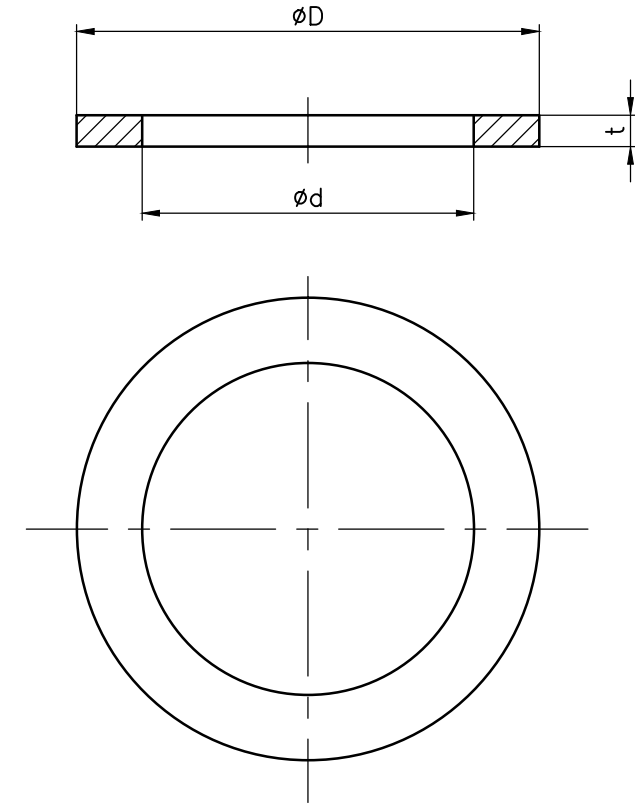
CARD CODE	DRAWING NO.	REV
U 01	3-V-0000-21910	


REV	DATE	ALTERED
		CHD & APPD

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

3.2 /

3-V-0000-21911 DRAWING NO.							
SL.NO.	DRAWING NO.	COMP. CODE	MATL. SPECN.	DIMENSIONS			FINISH WT(Kg)
				∅D	∅d	t	
01	3-V-0044-21911	964662240000	ASTM A105, NR, CERTIFY	100	68 ^{+0.120} ₀	5	0.18
02	3-V-0030-21911	964662250000		70	48 ^{+0.100} ₀	4	0.06
03	3-V-0034-21911	964662260000		80	52 ^{+0.120} ₀	5	0.11
04	3-V-0038-21911	964662270000		100	62 ^{+0.120} ₀	5	0.21
05	3-V-V329-21911	964662280000		39 ⁰ _{-0.8}	23 ^{+0.210} ₀	3	0.02



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.						DRN	NAME	SIGN	DATE	NO.OF VAR.
365-121						CHD	V.BAIRAVAN		20.03.14	
						APPD	S.SATHEESKUMAR		20.03.14	
						APPD	K.RAJASEKARAN		20.03.14	
DEPT	VL	SCALE		WEIGHT (KG).	REFERENCE INFORMATION			NO. OF ITEMS		
CODE	320	N.T.S								
TITLE						CARD CODE	DRAWING NO.		REV	
WASHER						U 01	3-V-0000-21911			

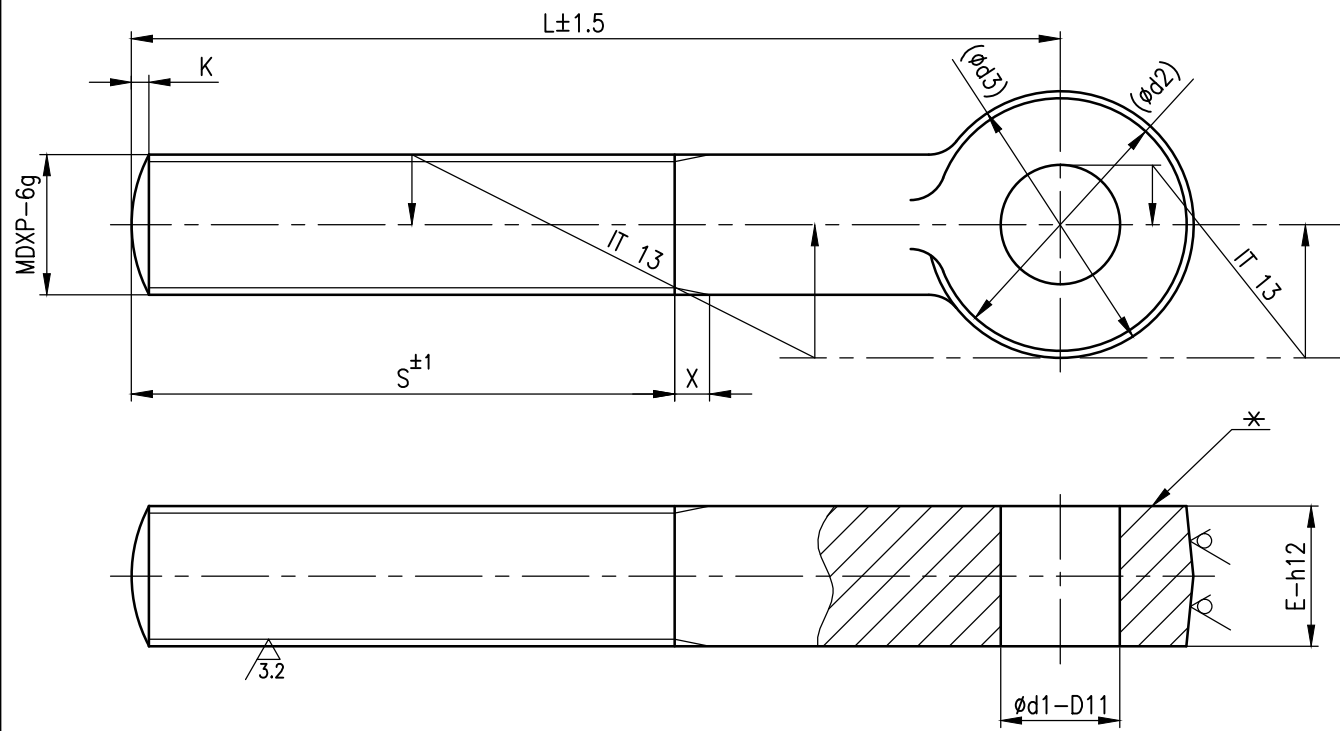
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REV	DATE	ALTERED
		CHD & APPD

3-V-0000-21914
DRAWING NO

S.NO	DRAWING NO.	COMPONENT CODE	MATL. SPECN.	DIMENSIONS								FINISHED WT IN KGS.	SIZE / RATING	
				MDXP	ØD1	(ØD2)	(ØD3)	L	S	E	K			X
1.	3-V-W001-21914	964662300000	A 193 - B7, CERTIFY	M20X2.5	17	36	38	132.5	77.5	20	2.5	5	0.37	65/2500, 80/1500, 100/1500
2.	3-V-W002-21914	964662340000		M22X2.5	21	42	45	152.5	82.5	22	2.5	5	0.60	100/2500; 250/1500
3.	3-V-W003-21914	964662450000		M30X3	25	56	60	163.5	103.5	30	3.5	6	1.30	200/2500; 250/1500
4.	3-V-W049-21914	964662330000		M16X2	13	30	32	122	62	16	2	4	0.20	80, 65/1500
5.	3-V-W065-21914	964662350000		M30X3	25	56	60	193.5	103.5	30	3.5	6	1.60	150/2500
6.	3-V-W073-21914	964662400000		M42X3	38	82	88	254.5	124.5	42	4.5	6	3.75	450/2500
7.	3-V-W077-21914	964662410000		M42X3	38	82	88	264.5	124.5	42	4.5	6	3.90	500/2750
8.	3-V-R025-21914	964662420000		M16X2	13	30	32	130	60	16	2	4	0.20	65/2500
9.	3-V-R065-21914	964662430000		M22X2.5	21	42	45	120	80	22	2.5	5	0.53	125/1500
10.	3-V-W113-21914	964662510000		M24X3	23	50	53	133	88	24	3	6	0.75	200/1500
11.	3-V-R057-21914	964662520000		M20X2.5	17	36	38	160	75	20	2.5	5	0.44	100/2500
12.	3-V-G001-21914	964662380000		M20X2.5	17	36	38	142.5	77.5	20	2.5	5	0.40	100/1500
13.	3-V-G002-21914	964662360000		M24X3	23	50	53	153	88	24	3	6	0.85	150/2500
14.	3-V-G004-21914	964662320000		M22X2.5	21	42	45	142.5	82.5	22	2.5	5	0.55	65/3500, 80/2500
15.	3-V-G041-21914	964662370000		M16X2	13	30	32	112	62	16	2	4	0.18	65/1500

	h12	D11
10 TO 18	0	+0.160
	-0.180	+0.050
19 TO 30	0	+0.195
	-0.210	+0.065
31 TO 50	0	+0.240
	-0.250	+0.080



NOTES :

01. EYE BOLT SHOULD BE MADE OUT OF FORGING.
02. * PUNCH MATL. MARK B7.
03. QUALITY REQUIREMENTS SHALL BE AS PER LATEST TDC.5:164.

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.						DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR.
						CHD	S.SATHEES		28.03.14	
						APPD	K.RAJASEKARAN		28.03.14	
DEPT	VL	SCALE		WEIGHT (KG).		REFERENCE INFORMATION			NO. OF ITEMS	
CODE	320	N T S				PT40				
TITLE						CARD CODE	DRAWING NO.		REV	
EYE BOLT						U 01	3-V-0000-21914			

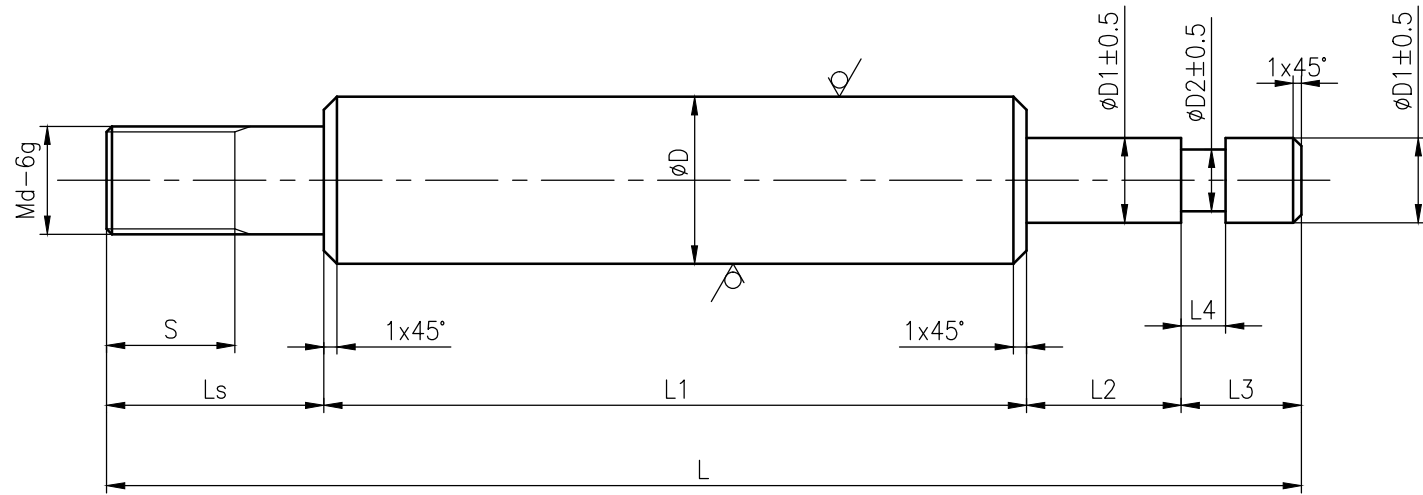
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REV	DATE	ALTERED
		CHD & APPD

3-V-0000-21915
DRAWING NO.

3.2 / 3.2

SL. No.	DRAWING No.	COMP. CODE	MATERIAL SPECN.	DIMENSIONS											FINISHED WT. (KG)	REMARKS
				L	L1	L2	L3	L4	Ls	S	∅D	∅D1	∅D2	Md		
01	3-V-WA83-21915	964662610000	A105, NR CERTIFY	245	178	20	15	6	32	20	32	16	10	M16	1.21	6"/2500CL GV
02	3-V-V082-21915	964662570000	A105, NR CERTIFY	129	64	20	15	6	30	20	32	16	10	M12	0.54	6"/1500CL GV
03	3-V-V514-21915	964662600000	A105, NR CERTIFY	143	76	20	15	6	32	20	32	16	10	M16	0.64	8"/2850CL GV



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
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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 the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.					DRN	V.BAIRAVAN	SIGN	DATE	NO. OF VAR.
					CHD	S.SATHEES		26.04.14	
					APPD	K.RAJASEKARAN		26.04.14	
DEPT	VL	SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE	320	NTS	--						
TITLE						CARD CODE	DRAWING NO.		REV
PIN						U 01	3-V-0000-21915		

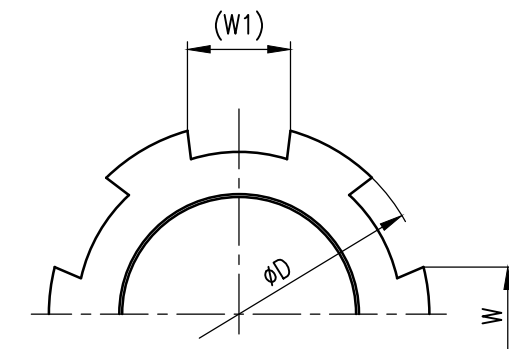
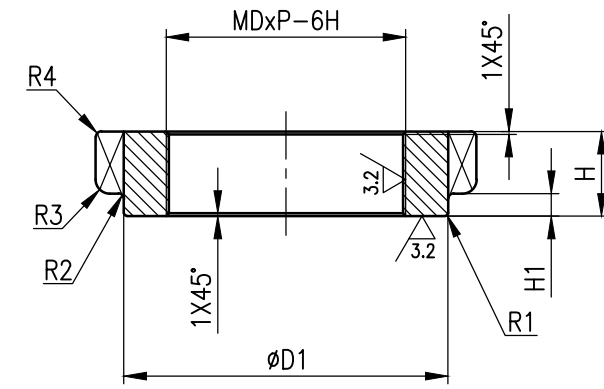
36617-0000-A-3
ON DRAWING

17
G

8
W

12.5 / 3.2

S.NO.	DRAWING NO.	MATL. SPECN.	COMP. CODE	DIMENSIONS											FINISH WT.KG.	SIZE/RATING
				MATL. CODE	ØD	ØD1	H	H1	R1	R2	R3	R4	MDxP	W		
1	3-V-G001-21993	SA 105, NORMALISED, CERTIFY	964662630000	135	115	30	8	1	2	5	2	M85x2	34	36.5	1.44	100/1500 65/3500 80/2500 80/3500
2	3-V-G002-21993		964662640000	180	148	46	14	1	2	5	2	M115x2	46	48.2	1.54	125/1500 150/2500
3	3-V-G003-21993		964662650000	145	125	34	8	1	2	5	2	M95x2	38	38	1.82	65/2500 100/2500
4	3-V-W002-21993		964662670000	150	125	35	5	1	5	8	2	M92x3	35	43.5	2.19	100/2500 100/2850
5	3-V-W049-21993		964662680000	116	96	25	5	0.5	4	5	0.5	M72x2	30	30.7	0.88	65/1500
6	3-V-W053-21993		964662690000	130	110	30	5	1	5	5	2	M80x2	34	34	1.45	100/1500
7	3-V-W065-21993		964662700000	170	145	45	10	1	4	5	2	M110x3	45	44	3.41	150/2500
8	3-V-G033-21993		964662710000	110	98	22	4	1	2	5	2	M75x2	34	23.6	0.70	65/2500 80/1500
9	3-V-G041-21993		964662720000	105	92	22	4	1	2	5	2	M70x2	32	23	0.66	65/1500 65/2500
10	3-V-R057-21993		964661490000	136	120	32	8	1	2	5	2	M90x2	36	35.2	1.57	100/2500
11	3-V-W401-21993		964661510000	160	130	38	5	1	5	8	0.5	M98x3	40	43.7	2.6	125/2500
12	3-V-W425-21993		964661520000	125	102	28	5	0.5	5	5	0.5	M75x2	32	33.4	1.2	80/1500
13	3-V-W345-21993		964661530000	130	110	32	5	0.5	5	5	0.5	M80x2	35	33	1.52	80/2500
14	3-V-W441-21993		964661540000	145	120	32	7	1	5	5	1	M90x2	38	37.9	1.8	125/1500



NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
--------	-------------	-----------	------------	----------------	------------	-------------	---------------	------------	---------

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

	BHARAT HEAVY ELECTRICALS LTD.,		DRN	V.BAIRAVAN	SIGN	DATE	NO.OF VAR.
	UNIT: HIGH PRESSURE BOILER PLANT.		CHD	S.SATHEES		12.04.08	
	TIRUCHIRAPALLI-620014.		APPD	K.RAJASEKARAN		12.04.08	

REV	DATE	ALTERED
		CHD & APPD

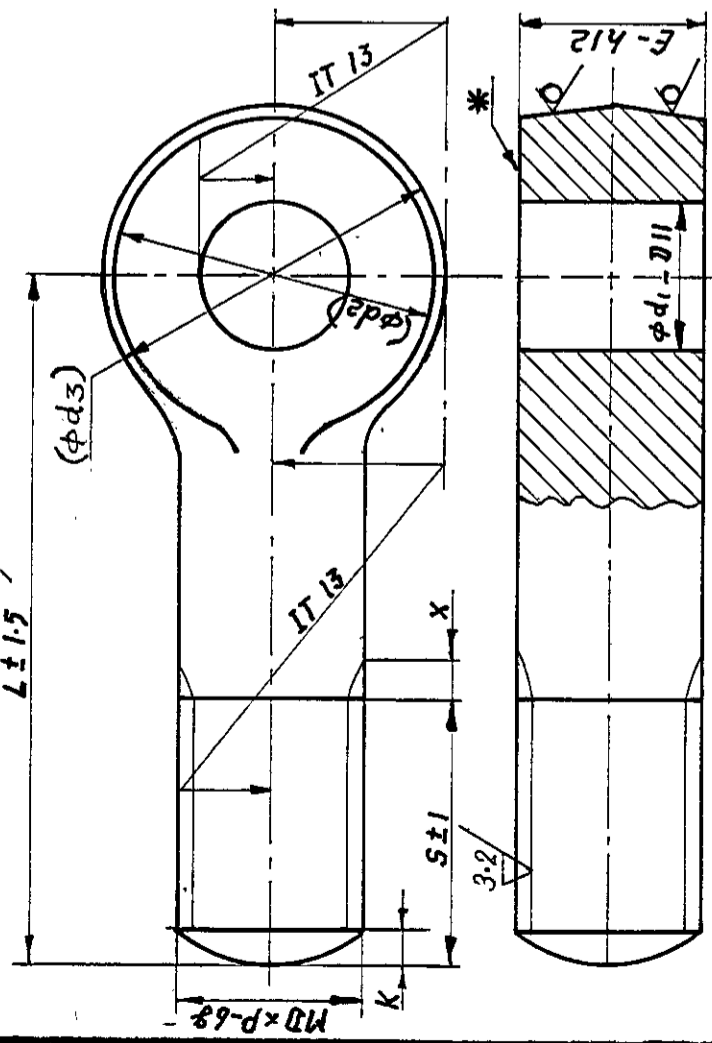
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION	NO. OF ITEMS
CODE 320		N T S			
TITLE	CASTLE NUT		CARD CODE	DRAWING NO.	REV
			U 01	3-V-0000-21993	

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 the company.

SL NO	DRAWING NUMBER	COMPONENT CODE	MACH. SPECN.	DIMENSIONS						FINISH WT IN KG	SIZE / RATING			
				M0 x P	φd1	φd2	φd3	L	S			E	K	X
1.	3-V-R025-20387/3	93 115 640 0000	A 193 - 87, CERTIFY	M16x2	13	30	32	130	60	16	2	4	0.20	65/2500
2.	3-V-R053-20387/3	93 115 641 0000		M22x2.5	21	42	45	130	80	22	2.5	5	0.57	80/3500
3.	3-V-R057-20387/3	93 115 642 0000		M20x2.5	17	36	38	160	75	20	2.5	5	0.44	100/2500
4.	3-V-R065-20387/3	93 115 643 0000		M22x2.5	21	42	45	120	80	22	2.5	5	0.53	125/1500

26

NOTE
1. EYE BOLT SHOULD BE MADE OUT OF FORGING.
2. * PUNCH MATL MARK B7.



3. QUALITY REQUIREMENTS AND BLACKENING SHALL BE AS PER APPLICABLE LATEST P.R.S.

	h12	D11
10T018	0	+0.160
	-0.180	+0.050
19T030	0	+0.195
	-0.210	+0.065
31T050	0	+0.240
	-0.250	+0.080

15/6/13/2



BHARAT HEAVY ELECTRICALS LTD.,
BOILER PLANT UNIT, TIRUCHIRAPALLI-14

FIRST ANGLE	SCALE	DRAWN	CHECKED	APPROVED	DATE	TOTAL NET WT. (KG)
	N T S	R. KANNAN	K. R. SEKAR	V. BABU	26/5/87	
ALL DIMENSIONS IN MILLIMETRES						TITLE
						TOA DRG. NO. : PT40

CAUTION
THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHY-14 AND SHALL NOT BE USED WITHOUT THEIR EXPRESS WRITTEN PERMISSION IN ANY FORM OR PART THEREOF FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SENT TO YOU.

33-115
3-V-0000-20387

REVISION
3

REV	DATE	ALTRD. K.R.S	REV	DATE	ALTRD. K.R.S
3	13-9-94	CHE. M.R.K	2	10-3-94	ALT. K.R.S
					CHE. M.R.K
MACHINING SYMBOL INCLUDED. DCN NO. TA 0330					
SYMBOL INCLUDED. NOTE 3 MODIFIED. DCN No. TA0380					
COMPONENT CODE CORRECTED IN SLNO.1 T04 DCN NO. TA0162					

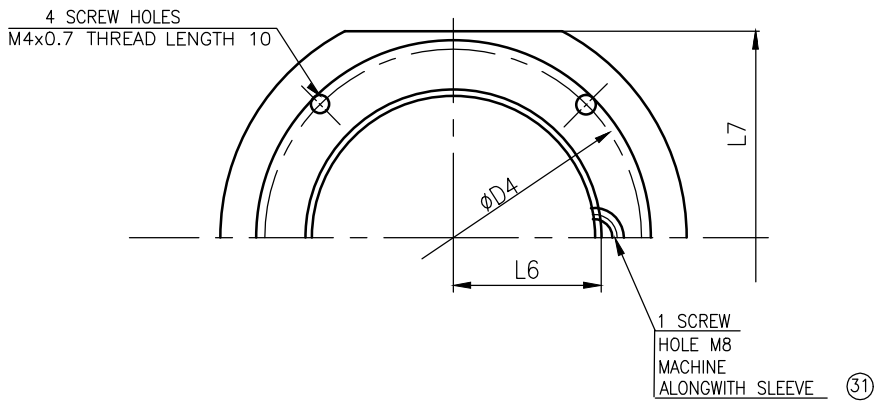
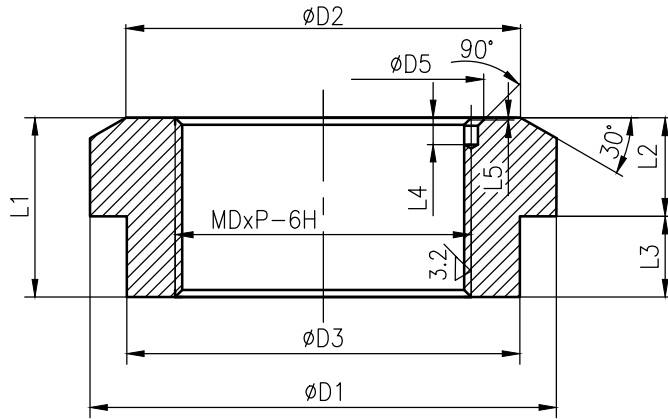
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FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD

12.5 / 3.2



SL. No.	DRAWING No.	MATL. SPECN	DIMENSIONS													WEIGHT (Kg.)
	MATL. CODE		ØD1	ØD2	ØD3	ØD4	ØD5	MDxP	L1	L2	L3	L4	L5	L6	L7	
01	4-V-L113-19423 964662480000	A105 NR, CERTIFY	260	220	219	210	16.5	165x3	100	55	45	15	0.5	82.5	230	18.5

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
-	-	-	-	-	-	-	-	-	-

 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.	DRN	V.BAIRAVAN	SIGN	DATE	NO. OF VAR
		CHD	S.SATHEES		26.05.14	
		APPD	K.RAJASEKARAN		26.05.14	

DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION	NO. OF ITEMS
CODE 320		N T S			

TITLE	CARD CODE	DRAWING NO.	REV
NUT	U 01	4-V-0000-19423	

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

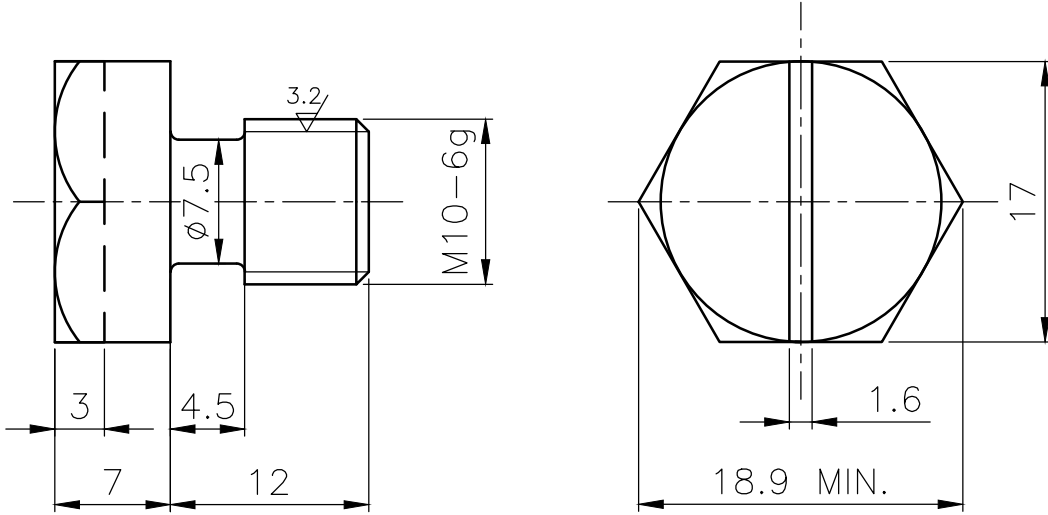
REV	DATE	ALTERED
		CHD & APPD


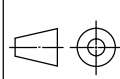
48B

12.5 / ∇

3.2 / ∇

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01	4-V-L113-19425	A105 NR CERTIFY	964662310000	0.02		48B			
SL. No.	DRAWING No.	MATL.SPECN	MATL. CODE	WEIGHT (KG)		ITEM No.			
-	-	-	-	-	-	-			
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.	DRN	NAME		SIGN	DATE	NO. OF VAR		
		CHD	V.BAIRAVAN			26.05.14			
		APPD	S.SATHEES			26.05.14			
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS			NO. OF ITEMS		
CODE		N T S							
TITLE	BOLT			CARD CODE	DRAWING NO.		REV		
			U 01	4-V-0000-19425					

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

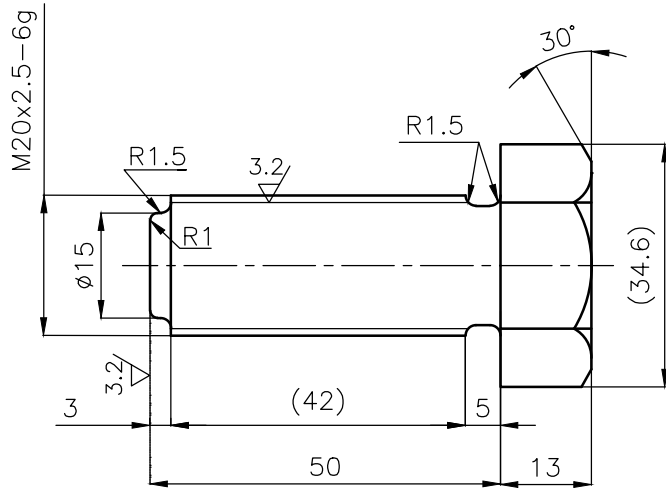
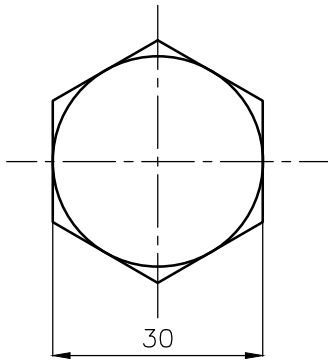
REV	DATE	ALTERED
		CHD & APPD


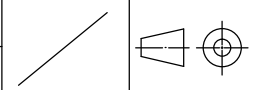
1600

12.5

3.2

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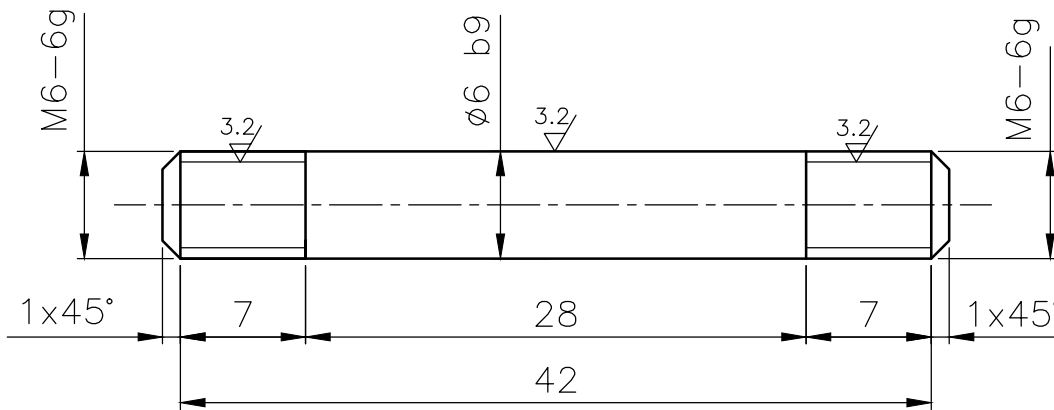
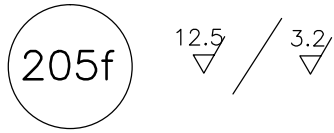
01	4-V-W729-19426	A193 B7 NR, CERTIFY	964662470000	0.196					
SL. No.	DRAWING No.	MATL. SPECN	MATL. CODE	WEIGHT (KG)					
-	-	-	-	-	-				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014. 365-122	DRN	NAME		SIGN	DATE	NO. OF VAR			
	CHD	V. BAIRAVAN			26.05.14				
	APPD	S. SATHEES			26.05.14				
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS			NO. OF ITEMS		
CODE		N T S							
TITLE	CARD CODE			DRAWING NO.		REV			
C5129B-15	U 01			4-V-0000-19426					
	150/3500								

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD

ø6 b9	- 0.140
	- 0.170



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01	4-V-R001-19427	A193 B7 NR, CERTIFY		964662500000	0.01				
SL. No.	DRAWING No.	MATL. SPECN		MATL. CODE	WEIGHT (KG)				
-	-	-	-	-	-	-			
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME	SIGN	DATE	NO. OF VAR	
				CHD	V. BAIRAVAN		26.05.14		
				APPD	S. SATHEES		26.05.14		
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE 320		N T S							
TITLE				CARD CODE	DRAWING NO.			REV	
BOLT				U 01	4-V-0000-19427				

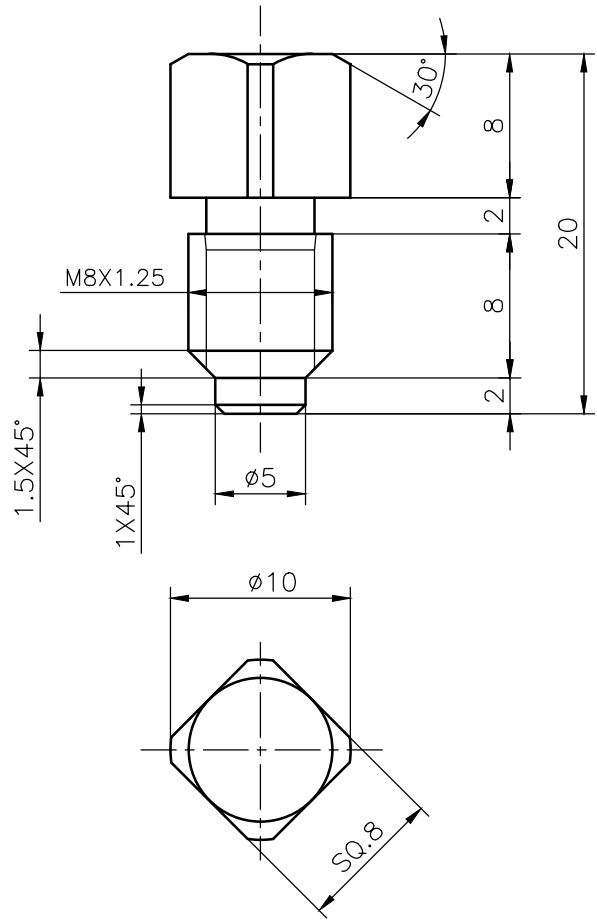
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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 the company.

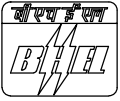
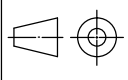
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:-

1. MATERIAL: ASTM A182 F6a. CL.3
2. SQUARE HEAD TO BE POLISHED.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.				DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR
					CHD	S.SATHEES		03.03.14	
					APPD	K.RAJASEKARAN		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE			NTS	0.01	COMP.CODE: 96 465 614 0000				
TITLE					CARD CODE	DRAWING NO.			REV
SCREW PLUG					U 01	4-V-2230-27079			

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 the company.

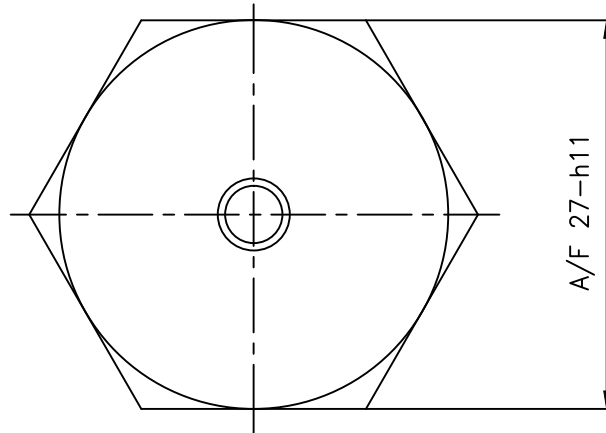
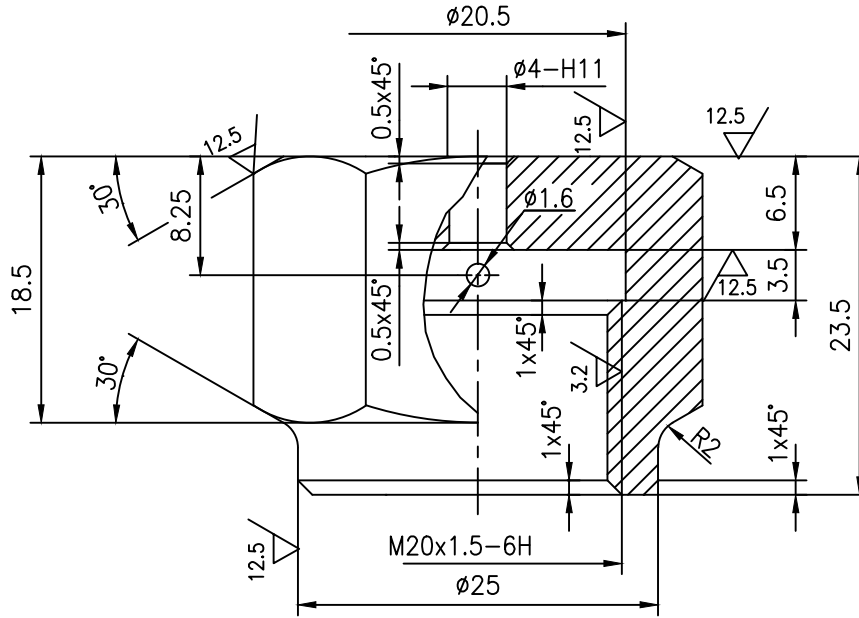
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD

6.3 / 12.5 / 3.2

ø4-H11	+0.075
	0
27 h11	0
	-0.130



NOTE:

- MATERIAL: ASTM A182 F6A CL.3
- EXTERNAL SURFACE TO BE POLISHED.

-	-	-	-	-	-	-	-	-	-			
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No			
	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014. 365-122							DRN	R.RAVINDHAR	SIGN	DATE	NO.OF VAR
								CHD	S.SATHEES		03.03.14	
								APPD	K.RAJASEKARAN		03.03.14	
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS				
CODE 320		NTS	0.05	COMP. CODE: 96 465 615 0000								
TITLE					CARD CODE	DRAWING NO.				REV		
SEALING NUT					U 01	4-V-2230-27080						

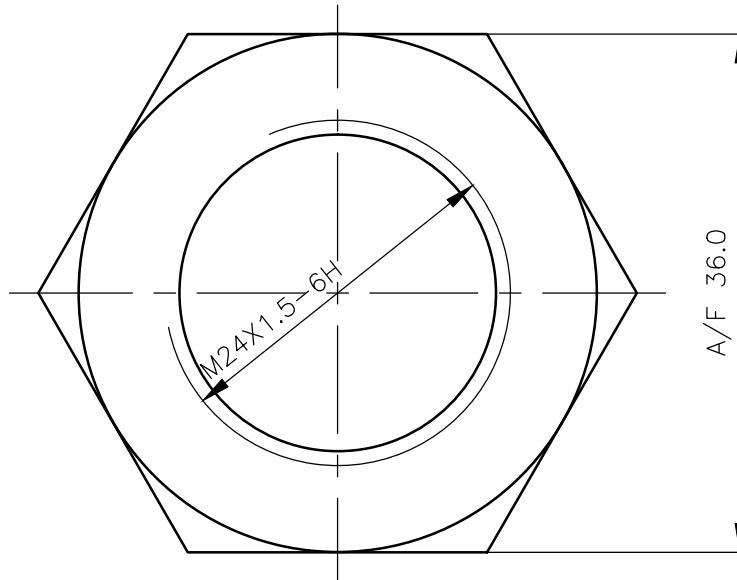
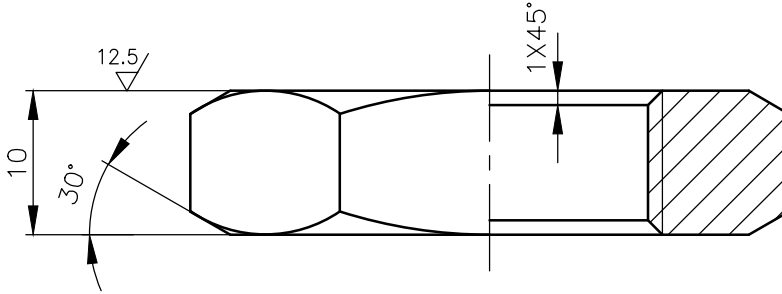
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD


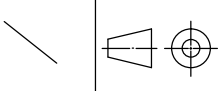
3.2 / 12.5

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NOTE:—

1. MATERIAL: ASTM A182 F6a.CL.3
2. EXTERNAL FACES TO BE POLISHED

—	—	—	—	—	—	—	—	—	—
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.				DRN	R.RAVINDHAR	SIGN	DATE	NO. OF VAR
					CHD	S.SATHEES		03.03.14	
					APPD	K.RAJASEKARAN		03.03.14	
DEPT VL		SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE 320		NTS	0.04	COMP.CODE: 96 465 618 0000					
TITLE					CARD CODE	DRAWING NO.			REV
LOCK NUT					U 01	4-V-2230-27083			

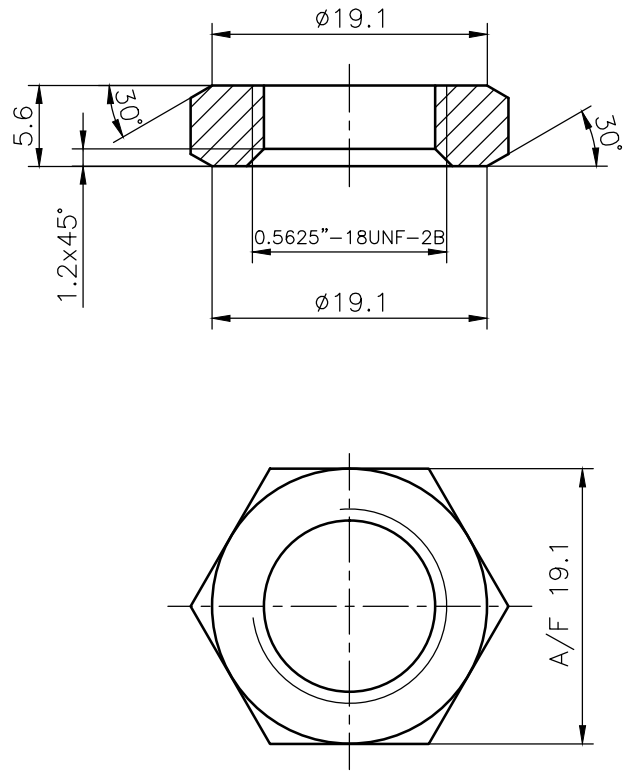
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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 the company.

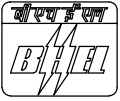
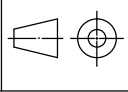
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:-

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPALLI 620014.	DRN	NAME		SIGN		DATE	NO.OF VAR	
		CHD	R.RAVINDHAR				03.03.14		
		APPD	S.SATHEES				03.03.14		
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE 320			NTS	0.01	COMP.CODE: 96 465 616 0000				
TITLE				CARD CODE	DRAWING NO.				REV
LOCK NUT				U 01	4-V-5903-27081				

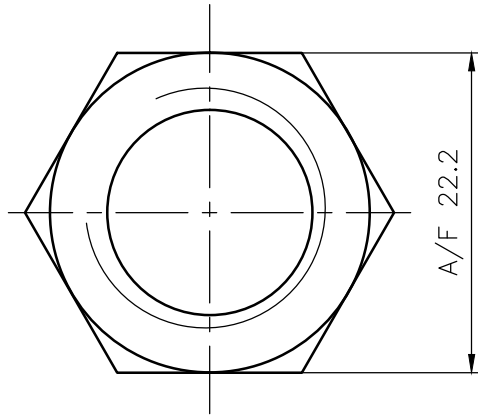
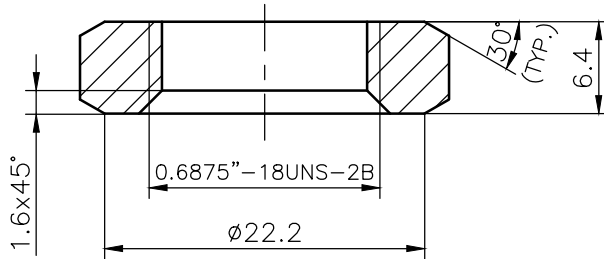
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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 the company.


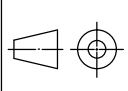
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:—

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.				DRN	NAME	SIGN	DATE	NO. OF VAR
					CHD	R.RAVINDHAR		03.03.14	
					APPD	S.SATHEES		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE			NTS	0.01	COMP.CODE: 96 465 617 0000				
TITLE					CARD CODE	DRAWING NO.			REV
LOCK NUT					U 01	4-V-5904-27082			

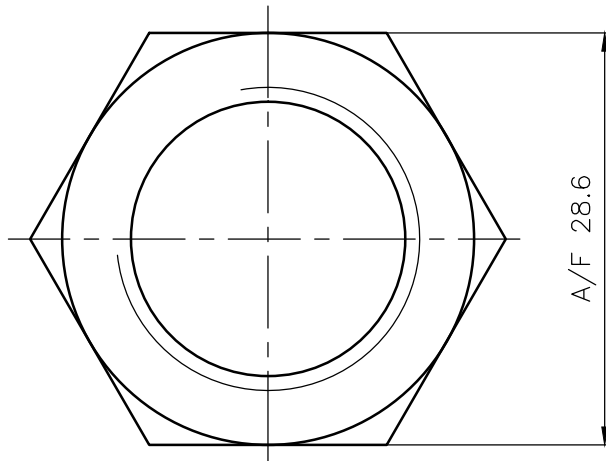
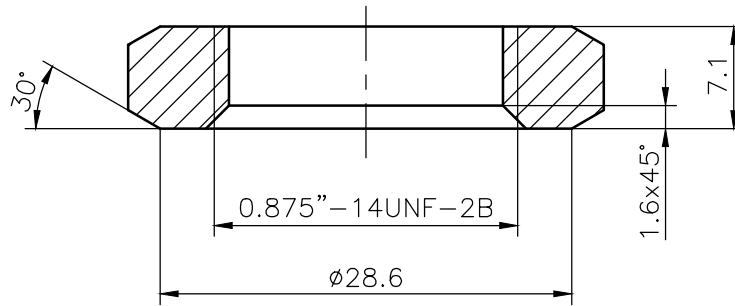
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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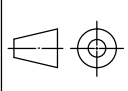
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:-

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

-	-	-	-	-	-	-	-	-	-
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.	DRN	NAME		SIGN		DATE	NO.OF VAR	
		CHD	R.RAVINDHAR				03.03.14		
		APPD	S.SATHEES				03.03.14		
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS			NO. OF ITEMS	
CODE 320			NTS	0.02	COMP.CODE: 96 465 620 0000				
TITLE				CARD CODE	DRAWING NO.			REV	
LOCK NUT				U 01	4-V-5906-27085				

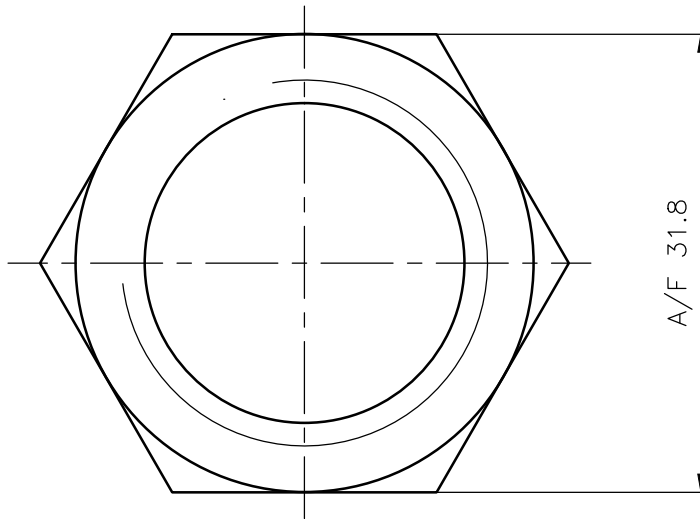
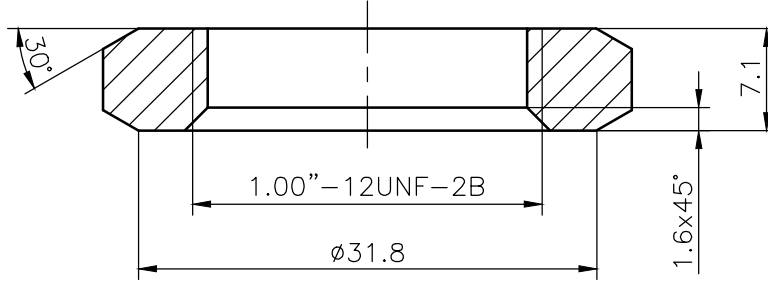
ALL DIMENSIONS ARE IN MILLIMETRES.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

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 the company.


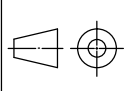
REV	DATE	ALTERED
		CHD & APPD

3.2 /



NOTE:—

1. MATERIAL: ASTM A194-2H.
2. ZINC PHOSPHATE AS PER LATEST APPLICABLE QUALITY PROCEDURE.

—	—	—	—	—	—	—	—	—	—
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 365-122	BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT, TIRUCHIRAPALLI 620014.				DRN	NAME	SIGN	DATE	NO.OF VAR
					CHD	R.RAVINDHAR		03.03.14	
					APPD	S.SATHEES		03.03.14	
DEPT VL	/		SCALE	WEIGHT (KG).	REFERENCE INFORMATIONS				NO. OF ITEMS
CODE 320			NTS	0.02	COMP.CODE: 96 465 619 0000				
TITLE					CARD CODE	DRAWING NO.			REV
LOCK NUT					U 01	4-V-5907-27084			



BHARAT HEAVY ELECTRICALS LTD

Valves/Purchase, Tiruchirappalli-620014, INDIA
TERMS AND CONDITIONS

Annexure-2

Phone: 0431 257 7086
0431 257 7210

Email: vikasverma@bheltry.co.in
vinu@bheltry.co.in

1. QUOTATIONS:-

- a. **Submission of Tender:** Each offer should be sent in double cover separately and the same should be sealed and super scribed with correct Tender No., item of supply and due date of opening. Two or more quotations should not be sent in one cover. Price Bid should contain only Price in Rs per unit for each type. Tender must be strictly sent to the address given below and not in any individual's name.

Tender Opening Cell
Room No-26, Building -24, High Pressure Boiler Plant
Bharat Heavy Electricals Limited
Tiruchirappalli - 620 014, Tamilnadu, India

- b. **Late tenders:** Late tenders shall not be considered under any circumstance.
- c. **Regulations:** Tender should be accompanied by detailed technical literature, Catalogue and detailed dimensional drawings in ENGLISH. Tenders should be free from CORRECTION AND ERASURES. Corrections if any must be attested. All amounts shall be indicated both in words as well as figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.
- d. **Two Part Bid Systems:** This is a two part bid system (Techno commercial & Price Bid), first the Techno Commercial bid will be opened. Techno-commercially suitable vendors alone will be intimated for price bid opening or Reverse Auction.
- e. **PVC:** Price Variation clause not acceptable. Prices should be firm.
- f. **Catalogue:** Manufacturer's name, Trade Mark or Patent No. if any should be specified. Illustrative leaflets giving technical particulars are required along with quotation wherever necessary.
- g. **Acceptance:** The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.

2. COMMERCIAL TERMS & CONDITIONS:

- a. **Terms of Payment:** 100% after 45 days on satisfactory receipts and acceptance of material at BHEL stores/ Site acknowledgement.
Any deviation in the above payment terms will attract loading as mentioned below.
Base rate of SBI (As applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.
LC will not be operated for indigenous vendors. Offers with payment terms as LC from Indigenous vendors will be rejected.
- b. **Liquidated Damage:** Liquidated damages shall be 0.5% of the total order value or part thereof subject to a maximum of 10% of the total order value. For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.
- c. **Delivery Terms:** Price should be quoted **FOR BHEL Trichy**/FOR site as mentioned in enquiry inclusive of freight and insurance in transit.
- d. **Validity of Offer:** Prices should be valid for 120 days from the date of opening of this tender.
- e. **Taxes & Duties:** If any Sales Tax is payable as extra to the quoted price, it should be specifically stated in quotation along with CST & T.N.G.S.T No. failing which the purchaser will not be liable for payment of Sales Tax. Our T.N.G.S.T No. 3550005 Dated 01-04-1995 C.S.T. No. 259383 Dt. 11.06.1991.
- f. **Guarantee Clause:** The vendor shall give a guarantee for the performance of his supplies for a period of eighteen months from the date of dispatch or twelve months from the date of commissioning whichever is earlier.
- g. **Risk Purchase:** Alternatively the purchaser at their option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of seller either the whole of goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefore. Supplier shall be liable for any loss which the purchaser may sustain by reason for such risk purchases in addition to penalty at the rate mentioned in clause 2.b above.
- h. **Preferential Delivery:** If a contract is placed on a higher tender as a result of this invitation to tender in preference to the lowest acceptable offer in consideration of the earliest delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price FOR destination, including all elements of freight, sales tax, duties and other incidents, incidental in case of failure to



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Valves/Purchase, Tiruchirappalli-620014, INDIA
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Email: vikasverma@bheltry.co.in
vinu@bheltry.co.in

complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.

- i. **MODVAT/CREDIT:** If any Excise Duty is payable, the chapter head/sub-head reference and the rate of the duty should be quoted. If the tender is availing MODVAT credit for his input materials, the effect of proforma invoice should be passed on to the purchaser.
- j. **Miscellaneous:** Any other conditions which might have been quoted by the seller and are in contravention to the terms prescribed, the order and which have not been specifically accepted in by Purchaser will not be applicable to the contract.
- k. **Delivery:** Delivery schedule shall be strictly as per BHEL tender requirement which are as indicated against each item in our tender. If supplier offers more than this delivery period BHEL will operate 0.5% loading factor for evaluation of their offer for every week delay.
- l. **Performance Bank Guarantee:** If tender Calls for Performance Bank Guarantee, Vendor should provide a performance bank guarantee (PBG) for 10% of the total Purchase order value valid for warranty/guarantee period with an additional claim period of 2 months.
- m. **Special Provisions for Micro and Small Enterprises (MSE):**
 - i. 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
 - ii. Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
 - iii. In case MSE vendor participating in the tender quotes within the price band of LI +15%, they will be allowed to supply the portion of the requirement subject to acceptance of LI price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately.
 - iv. MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with CA certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.

3. GENERAL CONDITIONS

- a. BHEL reserves the right to finalize the tender as per item serial number wise or as a total package or project wise. Separate orders will be released for each project and documents should be supplied for each order separately.
- b. BHEL reserves the right to increase or reduce or split the Tender Quantity and to NOT to order for some or all material based on the changes in project.
- c. BHEL shall have the right to visit vendor works during the execution of contract along with end customer for verifying status, inspection and testing of the material.
- d. BHEL reserves the right to negotiate or re-float the tender in case the quoted prices are not acceptable.
- e. Supplier shall arrange packing to avoid lose or damages during Road Transport, Site handling & Storage.
- f. Purchase Order, PO Item serial number, Material code, Quantity should marked the Packing clearly.
- g. Confirmation for compliance is to be given in the offer for all the conditions specified above and to the respective Purchase Specification.

4. FRAUD PREVENTION POLICY:

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



BHARAT HEAVY ELECTRICALS LTD

Valves/Purchase, Tiruchirappalli-620014, INDIA
TERMS AND CONDITIONS

Annexure-2

Phone: 0431 257 7086
0431 257 7210

Email: vikasverma@bheltry.co.in
vinu@bheltry.co.in

5. DOCUMENTATION:

a. **With Consignment:** Duplicate for transporter copy of Invoice, Packing List, Delivery Challan, O&M manual, Material Test Certificate, Other test Certificates, Calibration Report, Compliance Certificate & Guarantee/Warranty Certificate etc.

b. **To Finance:**

Original and Duplicate Invoice for payment with GR reference, should be sent directly to

**Sr Manager/Finance/Valves-Bills section
HPBP, BHEL Tiruchirappalli-620014, Tamilnadu.**

To Purchase:

FOR BHEL TRICHY case:- Copy of Invoice, Packing list, LWB and Delivery challan for reference, original IBR documents/Inspection despatch clearance certificates

FOR Site case:- Original Excise Invoice, Original LWB, Original Packing List, Original IBR documents, Original despatch clearance Certificate, Original Inspection report, Test certificates as per PO, Original Site Acknowledgment etc.

c. **Identification;** Purchase Order, PO item serial number, Material code, Quantity, Unique serial number if any should be provided in all despatch documents, materials and packing clearly.

SCHEDULE OF DEVIATIONS

Enquiry Reference:

Offer Reference:

Date:

Commercial Deviation

Clause No:	Description	Supplier Deviation

Technical Deviation

Clause No:	Description	Supplier Deviation

We confirm the acceptance of all the technical and commercial requirements as per BHEL tender, except the above deviations

Signature with seal

Unpriced Bid

Collective No.	EN-STA-806					
Enq. Date	22.09.2015					
Vendor code						
Vendor name						
Quote Ref						
Quote Date						
P & F (%)						
ED with CESS (%)						
VAT (%)						
CST (%)						
Freight (%)						
Insurance (%)						
Other Charges (%)						
Payment Terms						
Delivery Terms						
Validity						
Delivery Schedule						
Other Commercial Deviations						
Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Quote / Regret
10	964656140000	SCREW PLUG-2230	4V223027079	2200	NO	
20	964656150000	SEALING NUT-2230	4V223027080	2000	NO	

Unpriced Bid

Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Quote / Regret
30	964656160000	LOCK NUT-5903	4V590327081	5000	NO	
40	964656170000	LOCK NUT-5904	4V590427082	3800	NO	
50	964656180000	LOCK NUT-2230	4V223027083	1900	NO	
60	964656190000	LOCK NUT-5907	4V590727084	500	NO	
70	964656200000	LOCK NUT-5906	4V590627085	350	NO	
80	964661490000	CASTLE NUT-R057	3VR05721556	10	NO	
90	964661510000	CASTLE NUT-W401	3VW40121556	20	NO	
100	964661520000	CASTLE NUT-W425	3VW42521556	60	NO	
110	964661530000	CASTLE NUT-W345	3VW34521556	30	NO	
120	964661540000	CASTLE NUT-W441	3VW44121556	10	NO	
130	964661560000	PLUG	3VL00321888	20	NO	
140	964661570000	PLUG	3VL01221888	10	NO	
150	964661580000	PLUG	3VL16921888	10	NO	
160	964661590000	PLUG	3VL17221888	10	NO	
170	964661600000	PLUG	3VL41621888	10	NO	
180	964661620000	PLUG	3VL19121887	10	NO	
190	964661630000	PLUG	3VL22121887	10	NO	
200	964661640000	PLUG	3VL22321887	35	NO	
210	964661650000	PLUG	3VL23721887	10	NO	
220	964661680000	PLUG	3VL24721887	10	NO	
230	964661690000	PLUG	3VL25321887	10	NO	
240	964661700000	PLUG	3VL25521887	10	NO	
250	964661710000	PLUG	3VL34121887	10	NO	
260	964661730000	PLUG	3VL43321887	10	NO	
270	964661740000	PLUG	3VL43721887	10	NO	
280	964661750000	PLUG	3VL40121887	10	NO	
290	964661760000	PLUG	3VL43521887	10	NO	
300	964661770000	PIN	3V000221906	15	NO	
310	964661780000	PIN	3V000321906	125	NO	
320	964661790000	PIN	3V000421906	700	NO	
330	964661800000	PIN	3V000521906	750	NO	

Unpriced Bid

Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Quote / Regret
340	964661810000	PIN	3V000621906	550	NO	
350	964661820000	PIN	3V000821906	150	NO	
360	964661830000	PIN	3VL11321906	50	NO	
370	964661840000	NUT	3VR00121907	10	NO	
380	964661850000	NUT	3VR00921907	10	NO	
390	964661860000	NUT	3VL00121908	50	NO	
400	964661870000	NUT	3VL00221908	30	NO	
410	964661880000	NUT	3VL00321908	25	NO	
420	964661890000	NUT	3VL02521908	150	NO	
430	964661900000	NUT	3VL02921908	35	NO	
440	964661910000	NUT	3VL03321908	20	NO	
450	964661920000	NUT	3VL04921908	25	NO	
460	964661930000	NUT	3VL14021908	75	NO	
470	964661940000	NUT	3VL40121908	10	NO	
480	964661950000	NUT	3VL41321908	10	NO	
490	964661960000	NUT	3VL43321908	10	NO	
500	964661970000	NUT	3VL43521908	10	NO	
510	964661990000	WASHER	3V000121909	10	NO	
520	964662000000	WASHER	3V000221909	15	NO	
530	964662010000	WASHER	3V000321909	10	NO	
540	964662020000	WASHER	3V000421909	30	NO	
550	964662030000	WASHER	3V000521909	60	NO	
560	964662040000	WASHER	3V000621909	100	NO	
570	964662050000	WASHER	3V000721909	20	NO	
580	964662060000	WASHER	3V001021909	90	NO	
590	964662070000	WASHER	3V001221909	15	NO	
600	964662080000	WASHER	3V001321909	80	NO	
610	964662090000	WASHER	3V001421909	25	NO	
620	964662100000	WASHER	3V000921910	130	NO	
630	964662110000	WASHER	3V001021910	275	NO	
640	964662130000	WASHER	3V001221910	185	NO	

Unpriced Bid

Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Quote / Regret
650	964662140000	WASHER	3V001321910	40	NO	
660	964662150000	WASHER	3V001421910	75	NO	
670	964662160000	WASHER	3V001521910	25	NO	
680	964662170000	WASHER	3V001621910	80	NO	
690	964662180000	WASHER	3V001721910	60	NO	
700	964662190000	WASHER	3V002021910	10	NO	
710	964662200000	WASHER	3VV07321910	100	NO	
720	964662210000	WASHER	3VV23321910	45	NO	
730	964662220000	WASHER	3VV40121910	35	NO	
740	964662230000	WASHER	3VV44921910	10	NO	
750	964662240000	WASHER	3V004421911	10	NO	
760	964662250000	WASHER	3V003021911	20	NO	
770	964662260000	WASHER	3V003421911	10	NO	
780	964662270000	WASHER	3V003821911	10	NO	
790	964662280000	WASHER	3VV32921911	5100	NO	
800	964662290000	NUT	3VR14121907	10	NO	
810	964662300000	EYE BOLT	3VW00121914	400	NO	
820	964662310000	BOLT	4VL11319425	300	NO	
830	964662320000	EYE BOLT	3VG00421914	250	NO	
840	964662330000	EYE BOLT	3VW04921914	200	NO	
850	964662340000	EYE BOLT	3VW00221914	200	NO	
860	964662350000	EYE BOLT	3VW06521914	150	NO	
870	964662360000	EYE BOLT	3VG00221914	150	NO	
880	964662370000	EYE BOLT	3VG04121914	150	NO	
890	964662390000	EYE BOLT	3VW33721914	80	NO	
900	964662400000	EYE BOLT	3VL07321914	80	NO	
910	964662410000	EYE BOLT	3VW07721914	50	NO	
920	964662420000	EYE BOLT	3VR02521914	50	NO	
930	964662430000	EYE BOLT	3VR06521914	50	NO	
940	964662440000	EYE BOLT	3VW40121914	50	NO	
950	964662450000	EYE BOLT	3VW00321914	50	NO	

Unpriced Bid

Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Quote / Regret
960	964662460000	PIN	3V000721906	50	NO	
970	964662470000	BOLT	4VW72919426	50	NO	
980	964662480000	NUT	4VL11319423	25	NO	
990	964662490000	PINION	2VL11318203	25	NO	
1000	964662500000	BOLT	4VR00119427	20	NO	
1010	964662510000	EYE BOLT	3VW11321914	20	NO	
1020	964662520000	EYE BOLT	3VR05721914	15	NO	
1030	964662530000	WASHER	3VW72921911	10	NO	
1040	964662540000	WASHER	3VL40121909	10	NO	
1050	964662550000	PLUG	3VL42821887	10	NO	
1060	964662570000	PIN	3VV08221915	10	NO	
1070	964662580000	PLUG	3VL41321888	10	NO	
1080	964662600000	PIN	3VV51421915	10	NO	
1090	964662610000	PIN	3VWA8321915	10	NO	
1100	964662630000	CASTLE NUT-G001	3VG00121556	150	NO	
1110	964662640000	CASTLE NUT-G002	3VG00221556	50	NO	
1120	964662650000	CASTLE NUT-G003	3VG00321556	50	NO	
1130	964662670000	CASTLE NUT-W002	3VW00221556	50	NO	
1140	964662700000	CASTLE NUT-W065	3VW06521556	90	NO	
1150	964662710000	CASTLE NUT-G033	3VG03321556	200	NO	
1160	964662720000	CASTLE NUT-G041	3VG04121556	125	NO	
1170	964662820000	WASHER	3V001120704	100	NO	
1180	964662830000	EYE BOLT	3VG00121914	95	NO	

Priced bid format

Collective No.		EN-STA-806				
Enq. Date		22.09.2015				
Vendor code						
Vendor name						
Quote Ref						
Quote Date						
Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Unit Price
10	964656140000	SCREW PLUG-2230	4V223027079	2200	NO	
20	964656150000	SEALING NUT-2230	4V223027080	2000	NO	
30	964656160000	LOCK NUT-5903	4V590327081	5000	NO	
40	964656170000	LOCK NUT-5904	4V590427082	3800	NO	
50	964656180000	LOCK NUT-2230	4V223027083	1900	NO	
60	964656190000	LOCK NUT-5907	4V590727084	500	NO	
70	964656200000	LOCK NUT-5906	4V590627085	350	NO	
80	964661490000	CASTLE NUT-R057	3VR05721556	10	NO	
90	964661510000	CASTLE NUT-W401	3VW40121556	20	NO	
100	964661520000	CASTLE NUT-W425	3VW42521556	60	NO	
110	964661530000	CASTLE NUT-W345	3VW34521556	30	NO	
120	964661540000	CASTLE NUT-W441	3VW44121556	10	NO	
130	964661560000	PLUG	3VL00321888	20	NO	
140	964661570000	PLUG	3VL01221888	10	NO	
150	964661580000	PLUG	3VL16921888	10	NO	
160	964661590000	PLUG	3VL17221888	10	NO	
170	964661600000	PLUG	3VL41621888	10	NO	
180	964661620000	PLUG	3VL19121887	10	NO	
190	964661630000	PLUG	3VL22121887	10	NO	
200	964661640000	PLUG	3VL22321887	35	NO	

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Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Unit Price
210	964661650000	PLUG	3VL23721887	10	NO	
220	964661680000	PLUG	3VL24721887	10	NO	
230	964661690000	PLUG	3VL25321887	10	NO	
240	964661700000	PLUG	3VL25521887	10	NO	
250	964661710000	PLUG	3VL34121887	10	NO	
260	964661730000	PLUG	3VL43321887	10	NO	
270	964661740000	PLUG	3VL43721887	10	NO	
280	964661750000	PLUG	3VL40121887	10	NO	
290	964661760000	PLUG	3VL43521887	10	NO	
300	964661770000	PIN	3V000221906	15	NO	
310	964661780000	PIN	3V000321906	125	NO	
320	964661790000	PIN	3V000421906	700	NO	
330	964661800000	PIN	3V000521906	750	NO	
340	964661810000	PIN	3V000621906	550	NO	
350	964661820000	PIN	3V000821906	150	NO	
360	964661830000	PIN	3VL11321906	50	NO	
370	964661840000	NUT	3VR00121907	10	NO	
380	964661850000	NUT	3VR00921907	10	NO	
390	964661860000	NUT	3VL00121908	50	NO	
400	964661870000	NUT	3VL00221908	30	NO	
410	964661880000	NUT	3VL00321908	25	NO	
420	964661890000	NUT	3VL02521908	150	NO	
430	964661900000	NUT	3VL02921908	35	NO	
440	964661910000	NUT	3VL03321908	20	NO	
450	964661920000	NUT	3VL04921908	25	NO	
460	964661930000	NUT	3VL14021908	75	NO	
470	964661940000	NUT	3VL40121908	10	NO	
480	964661950000	NUT	3VL41321908	10	NO	
490	964661960000	NUT	3VL43321908	10	NO	
500	964661970000	NUT	3VL43521908	10	NO	
510	964661990000	WASHER	3V000121909	10	NO	

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Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Unit Price
520	964662000000	WASHER	3V000221909	15	NO	
530	964662010000	WASHER	3V000321909	10	NO	
540	964662020000	WASHER	3V000421909	30	NO	
550	964662030000	WASHER	3V000521909	60	NO	
560	964662040000	WASHER	3V000621909	100	NO	
570	964662050000	WASHER	3V000721909	20	NO	
580	964662060000	WASHER	3V001021909	90	NO	
590	964662070000	WASHER	3V001221909	15	NO	
600	964662080000	WASHER	3V001321909	80	NO	
610	964662090000	WASHER	3V001421909	25	NO	
620	964662100000	WASHER	3V000921910	130	NO	
630	964662110000	WASHER	3V001021910	275	NO	
640	964662130000	WASHER	3V001221910	185	NO	
650	964662140000	WASHER	3V001321910	40	NO	
660	964662150000	WASHER	3V001421910	75	NO	
670	964662160000	WASHER	3V001521910	25	NO	
680	964662170000	WASHER	3V001621910	80	NO	
690	964662180000	WASHER	3V001721910	60	NO	
700	964662190000	WASHER	3V002021910	10	NO	
710	964662200000	WASHER	3VV07321910	100	NO	
720	964662210000	WASHER	3VV23321910	45	NO	
730	964662220000	WASHER	3VV40121910	35	NO	
740	964662230000	WASHER	3VV44921910	10	NO	
750	964662240000	WASHER	3V004421911	10	NO	
760	964662250000	WASHER	3V003021911	20	NO	
770	964662260000	WASHER	3V003421911	10	NO	
780	964662270000	WASHER	3V003821911	10	NO	
790	964662280000	WASHER	3VV32921911	5100	NO	
800	964662290000	NUT	3VR14121907	10	NO	
810	964662300000	EYE BOLT	3VW00121914	400	NO	
820	964662310000	BOLT	4VL11319425	300	NO	

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Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Unit Price
830	964662320000	EYE BOLT	3VG00421914	250	NO	
840	964662330000	EYE BOLT	3VW04921914	200	NO	
850	964662340000	EYE BOLT	3VW00221914	200	NO	
860	964662350000	EYE BOLT	3VW06521914	150	NO	
870	964662360000	EYE BOLT	3VG00221914	150	NO	
880	964662370000	EYE BOLT	3VG04121914	150	NO	
890	964662390000	EYE BOLT	3VW33721914	80	NO	
900	964662400000	EYE BOLT	3VL07321914	80	NO	
910	964662410000	EYE BOLT	3VW07721914	50	NO	
920	964662420000	EYE BOLT	3VR02521914	50	NO	
930	964662430000	EYE BOLT	3VR06521914	50	NO	
940	964662440000	EYE BOLT	3VW40121914	50	NO	
950	964662450000	EYE BOLT	3VW00321914	50	NO	
960	964662460000	PIN	3V000721906	50	NO	
970	964662470000	BOLT	4VW72919426	50	NO	
980	964662480000	NUT	4VL11319423	25	NO	
990	964662490000	PINION	2VL11318203	25	NO	
1000	964662500000	BOLT	4VR00119427	20	NO	
1010	964662510000	EYE BOLT	3VW11321914	20	NO	
1020	964662520000	EYE BOLT	3VR05721914	15	NO	
1030	964662530000	WASHER	3VW72921911	10	NO	
1040	964662540000	WASHER	3VL40121909	10	NO	
1050	964662550000	PLUG	3VL42821887	10	NO	
1060	964662570000	PIN	3VV08221915	10	NO	
1070	964662580000	PLUG	3VL41321888	10	NO	
1080	964662600000	PIN	3VV51421915	10	NO	
1090	964662610000	PIN	3VWA8321915	10	NO	
1100	964662630000	CASTLE NUT-G001	3VG00121556	150	NO	
1110	964662640000	CASTLE NUT-G002	3VG00221556	50	NO	
1120	964662650000	CASTLE NUT-G003	3VG00321556	50	NO	
1130	964662670000	CASTLE NUT-W002	3VW00221556	50	NO	

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Enq.Sl.No.	Material	Material Description	Drawing/Standard	Qty	UOM	Unit Price
1140	964662700000	CASTLE NUT-W065	3VW06521556	90	NO	
1150	964662710000	CASTLE NUT-G033	3VG03321556	200	NO	
1160	964662720000	CASTLE NUT-G041	3VG04121556	125	NO	
1170	964662820000	WASHER	3V001120704	100	NO	
1180	964662830000	EYE BOLT	3VG00121914	95	NO	