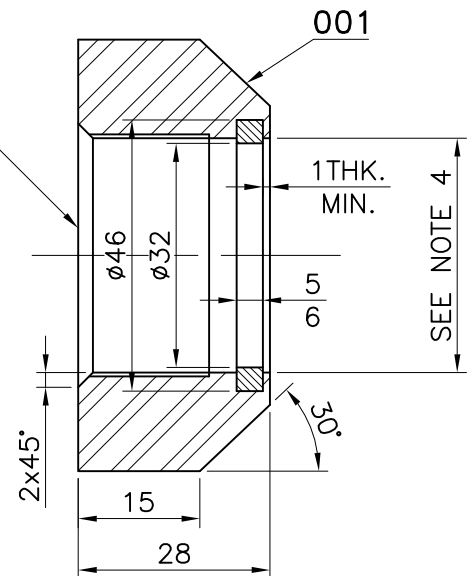
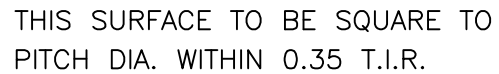


(ALL DIMENSIONS ARE IN mm)

STYLE LIST		
VAR.	IT.NO.	STYLE NO.
—	001	BP9094676613



SECTION-'AA'

1. NUT SHOULD CONFORM TO DIN:985 OR ISO:10511  
PROPERTY CLASS-8.
2. MATERIAL TO BE STEEL & NON-METALLIC INSERT HEAT TREAT TO  
ROCKWELL "C" 25-31, FINISH-PHOSPHATE TREAT.
3. O.D. TO BE CONCENTRIC WITH THREAD AXIS WITHIN 0.25 TIR.
4. DIA. SHALL BE KEPT SUCH THAT NYLON DOES NOT COME OUT DURING  
TIGHTENING WITH M32 SCREW. SAMPLING CHECK TO BE DONE AT SUPPLIER'S WORKS.
5. NYLON WASHER SHALL BE TIGHT FITTED IN THE GROOVE SUCH THAT IT DOES NOT  
ROTATE DURING BOLT TIGHTENING.



भारत हेवी इलेक्ट्रिकल्स लिमिटेड  
भोपाल  
BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL


नाम NAME	हस्ता. SIGN	दिनांक DATE	वे र. की संख्या NO. OF VAR.
खनाया DRN R.B.V.	—sd—	15.6.02	
जौधा CKD D.K.	—sd—	15.6.02	
अनुमोदित अर्थ M B	—sd—	15.6.02	

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## FIRST ANGLE PROJECTION

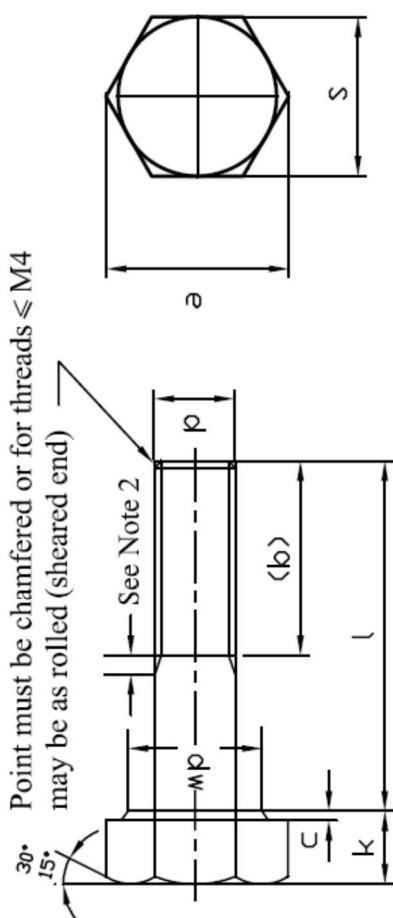
(ALL DIMENSIONS ARE IN mm)

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.	REV.	DATE	ALTERED	@Hseet	REV.	DATE	ALTERED	MMJ	ADDITIONAL SIM DRG. NO. 9437798 INFORMATION								
	03	20.11.14	CHECKED	Amor	02	5.2.09	CHECKED	OPV									
			APPROVED	Amor			APPROVED	SA									
	STYLE NO. ADDED. WEIGHT ADDED.				DRG. UPDATED & DIGITIZED.				STATUS OF DRAWING								
									DISTRIBUTION TME-1 OF PRINTS TAM-4 TNX-1								
	REV.	DATE	ALTERED	@Hseet	REV.	DATE	ALTERED	@Hseet	REV.	DATE	ALTERED	SDB @Hseet					
	04	06.02.15	CHECKED	Amor	05	09.03.15	CHECKED	Amor	06	14.03.17	CHECKED	JK					
			APPROVED	Amor			APPROVED	Amor			APPROVED	RC					
	DIMS. 187 <sup>0</sup> <sub>+1.0</sub> & 34 WERE 191 <sup>0</sup> <sub>+1.0</sub> & 38 RESPLY.				DIMS. 165±1.0 & 22 WERE 153±0.5 & 34. NOTE-2 ADDED.				DIMS. 158±1.0 & 180 <sup>0.0</sup> <sub>+1.0</sub> WERE 165±1.0 & 187 <sup>0.0</sup> <sub>+1.0</sub>								
<table border="1"> <tr> <th colspan="2">STYLE LIST</th> </tr> <tr> <th>IT.NO.</th> <th>STYLE NO.</th> </tr> <tr> <td>001</td> <td>BP9014677529</td> </tr> </table>												STYLE LIST		IT.NO.	STYLE NO.	001	BP9014677529
STYLE LIST																	
IT.NO.	STYLE NO.																
001	BP9014677529																
<p>NOTES:-</p> <p>1. ALL OTHER PROPERTIES AND DIMENSIONS OF ITEM 001 TO BE AS PER AA7111122 FOR M12 BOLT PROPERTY CLASS 8.8.</p> <p>2. AXIS OF HEAD MUST BE CONCENTRIC WITH AXIS OF BOLT WITHIN 1MM TIR.</p>																	
REF. DRG. NO.	SEE NOTE-1		001	STATOR BOLT 19 A/Fx200LG.		AA7111122		KG.	0.21								
	65	75	25	27	29	58	59	34	45	55	56	58	65				
SIGN. & DATE	REMARKS		ITEM NO.		DESCRIPTION		STD	MATL. CODE		UNIT		UNIT WT.					
								46		54		66					
INVENTORY NO.	CARD TYPE-3		28		28		CARD TYPE-1		28		CARD TYPE-2						
			BHARAT HEAVY ELECTRICALS LTD. BHOPAL		DRN.		NAME		SIGN		DATE		75	77			
							VR.D.		SD/-		30.8.00		NO.OF VAR.				
							CKD.		SD/-		21.9.00						
							APPD.		N.N.N.		SD/-			21.9.00			
DEPT.		UNTOL.		DIMS.		GR.		SCALE		WEIGHT(KG)		REF.TO ASSY.DRG.		ITEM NO.			
TME		GR'M'		TM		20079		N.T.S.		0.21		14323477001		005			
CODE		405															
TITLE		STATOR BOLT		AUX. ALTERNATOR AA9201AZ		DRAWING NO.		44323477001		REV		06					
						SHT.NO 01		NO.OF.SHT. 01									

	<h1 style="text-align: center;">CORPORATE STANDARD</h1>			AA7111122	
				Rev No.09	
				PAGE 1 of 3	
<h2>BOLTS, HEXAGON HEAD, PRODUCT GRADE 'A' COARSE PITCH, STEEL PROPERTY CLASS 8.8 (M3 - M16)</h2>					
<p><b>1.0 DESIGNATION:</b> A product Gr.A, hexagon head, steel bolt of nominal diameter 10 mm, length 60 mm, coarse pitch and conforming to property class 8.8 shall be designated as:</p>					
<p><b>1.1 On Drawings:</b>            i) Material specification column : AA7111122            ii) Description Column : BOLT HEX A M10 X 60 – 8.8</p>					
<p><b>1.2 On Indents:</b> Bolt Hex A M10 X 60 – 8.8: AA7111122</p>					
<p><b>1.3 For issuing enquiries and on purchase orders:</b> While issuing enquiries and purchase orders delete BHEL standard number from above description and add the information given under clause 2.0</p>					
<p><b>2.0 COMPLIANCE WITH STANDARDS:</b></p>					
<p><b>2.1 Dimensions, Tolerance &amp; General Requirements:</b> As per IS 1364 : Part 1 : 2018</p>					
<p><b>2.2 Mechanical Properties:</b> To conform to property class 8.8, as specified in Table–3 of IS:1367, Part 3 Permissible hardness 238-350 HB for sizes M6-M10</p>					
<p><b>2.3 Threads:</b> Pitch-Coarse to IS 4218 : Part 2 Tolerance quality – Medium Tolerance class – 6g</p>					
<p><b>2.4 Identification Marking:</b> As stated in Clause 10 of IS 1367 : Part 3</p>					
<p><b>2.5 Surface Discontinuity:</b> As per IS 1367 : Part 9 : Sec 1</p>					
<p><b>2.6 Finish:</b> Planted as specified in BHEL order.</p>					
Revisions:			<p style="text-align: center;"><b>APPROVED:</b> INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(F)</p>		
Rev No.09	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1 <sup>st</sup> Issue
Dt:20-03-2021	Dt:	Year:	12HEEP, Haridwar	Corp.R&D	January 1977



## PAGE 3 of 3



**Note:**

- 1) Corporate sub codes are shown in the table.
- 2) For thread runout refer AA0231850
- 3) Weights have been shown in kg per 1000Nos
- 4) Symbol  $\Delta$  denotes the non-preferred size.

**All dimensions are in 'mm'**

TABLE - 1

TABLE 1		Head			Washer		Thread Length		Nominal Length (L)																					
		Flats s	Crns e	Tkrns k	Dia dw	Tkrns c		For Nom. Length ≤ 125	For Nom Length >125 & ≤ 200	20	25	30	35	40	45	50	55	60	65	70	80	90	100	110	120	130	140	150		
						Max.	Min.																						Sub Code	Weight
						Max.	Min.																							
Nom. Size d																														
M3																														
M4																														
M5																														
M6																														
M8																														
M10																														
M12																														
M16																														

**Duly filled Technical Pre-Qualification Requirements to be submitted along with the offer by vendor**

*For uploading along with the enquiry*

Ref No: TME/PQR/TA/SELF LOCKING NUT

Dated: 15/12/2025

**Technical Pre-Qualification Requirements (PQR)**

**Vendor should comply with the following clauses in order to qualify for supply of *tendered item* (duly filled PQR shall be submitted along with the offer by vendor):**

Cl. No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document to be submitted along with offer
1.	Vendor shall supply item as per drawing no. & description mentioned in the enquiry.	Yes/No	Not Required
2.	Vendor should be manufacturer of the item & not a trader.	Manufacturer/ Trader	Not Required
3.	Vendor should have experience of successfully supplying of self-locking nut having non-metallic insert like nylon etc. of size M30 minimum in preceding 5 years from enquiry opening date.	Yes/No	a. PO copy. b. Drawing of supplied item. c. Supply proof i.e. invoice.
4.	For verification of information furnished by vendor, additional documents, proofs etc. may be required by BHEL. Vendor to confirm providing the same.	Yes/No	Not Required

**Note:**

1. Compliance of all the points in above T-PQR is mandatory. In absence of compliance of above, vendor's offer is liable to be rejected.
2. Declaration by vendors regarding information / compliance submitted by vendor shall be correct in all respect. In case any deviation/false information is revealed later on, BHEL is free to initiate appropriate punitive proceeding as per prevalent processes and guidelines of company.

**Important:** This document is to be filled and submitted along with the offer. This document must be signed by authorized representative of the vendor and should contain the name of representative & seal of the company.

Date:

(Sign and Seal of Authorized representative of vendor)

**BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**  
**QUALITY CONTROL TRANSPOSITION**  
**QUALITY ASSURANCE PLAN(QAP)**  
**QA PLAN NO. : QTM/TAMW/ENDOR/QAP/2016-17/TA9901/SELF LOCKING NUT REV 00 DT. 24.08.2016**  
**REFERENCE- DRG NO. 44301076006**

Sl. No.	CHARACTERISTIC	CLASSIFICATION	TYPE OF CHECK	QUANTUM OF CHECK		REF. DOCUMENT	FORMAT OF RECORD	REMARKS
				TP	TP/A			
1.0	Material Test Certificate	A	VR	100%	100%	Dr. no. 44301076006 and relevant spec.	TR	TEST LAB NABL / EQUIVALENT ACCREDITED/ SOURCE M.LL. (Supplier to get the raw material correlated with TC, purchase document from TP/A/QC), TC to be Submitted
2.0	Dimensions	A	I	100%	5%	Dr. no. 44301076006	SR	TM 2007/9 grade M to be followed for untolerated dimensions. Report to be submitted
3.0	Identification Vendor Name	A	VR	100%	5%		SR	
4.0	Packaging suitability for transit & storage	B	VR	100%	--		SR	Packaging shall be such that during transit components should not damage.
PREPARED BY				APPROVED BY				

**Notes:**

- 1) All TR, SR checked by TP, TP/A/QC (daily signed & sealed) as per above QAP requirement shall be submitted along with the report.
- 2) Note 1, 2 and 3 of drg. 44301076006 is to be followed.

**Abbreviation:** A - Critical, B - Major, VR - Verification, I - Instrumental Gauges,  
 T R - Test Record, S R - Shop Record.

**AGENCIES:**

TP/A - BHEL, appointed third Party Inspecting Agency  
 T P - Task Performer