



BHARAT HEAVY ELECTRICALS LIMITED
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REQUIREMENT OF CASTING EYE NUT

Details of items details as below:

Sl. NO.	MAT CODE	ITEM DISCREPTION	Quantity (Nos)	Delivery (Days)
1	W93078297012	CASTING EYE NUT (FOR P/N 1276-97-553) & ROUGH MACHINED SPEC: AA19941 REV: 01 SIZE: P/N 127697553	04	45

1. ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY.
2. KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.
3. KINDLY ARRANGE TO **SUBMIT TECHNO-COMMERCIAL CHECKLIST** ALONG WITH YOUR OFFER.
4. VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES AS PER ENQUIRY STANDARD ALONG WITH MATERIAL DISPATCH.
5. VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.
6. VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.
7. VENDOR TO CONFIRM TO PROVIDE NON REMOVABLE IDENTIFICATION OF ALL ITEMS AND THEIR REPORT ACCORDINGLY.

QUALIFYING CONDITIONS FOR EYE NUT

Sl.	PQR Requirement	Vendor Response	Vendor Response (Yes / No / Remarks, if any)
1.	Who can manufacture or supply Eye Nut as per BHEL Drawing and specification	Vendor to confirm	
2.	Who can provide Material Test Certificate (MTC) from NABL certified / Govt. approved Labs / OEM certified lab.	Vendor to confirm	
3.	Who can provide Certificate of Conformance (COC) (<i>also known as Certificate of Conformity or Certificate of Compliance</i>)	Vendor to confirm	



CORPORATE PURCHASING SPECIFICATION

AA 199 41

Rev. No. 01

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LEADED GUNMETAL SAND CASTINGS

1.0 GENERAL :

This specification governs the requirements of leaded gunmetal sand castings.

2.0 APPLICATION :

Suitable for general casting required for fair strength, soundness, good mechinability and pressure tightens.

3.0 CONDITION OF DELIVERY :

As specified in the order/drawing.

4.0 COMPLIANCE WITH NATIONAL STANDARDS :

IS : 1458 - 1965, (Reaffirmed ¹⁹⁹⁶ ~~1994~~) Class V. "Specification for Railway Bronze Ingots and castings".

5.0 DIMENSIONS AND TOLERANCES :

The dimensions of the castings shall be in accordance with the drawings supplied with the order. All surface marked for machining shall have sufficient machining allowance but it shall not be too excessive resulting in more machining. For unmachined surfaces, unless otherwise stated in the order, the tolerance on linear dimensions and wall thickness shall be as per Corporate Standard AA 023 04 02.

6.0 MANUFACTURE :

Sand Cast / Centrifugal cast, if specified on drg. or in purchase order.

7.0 FINISH :

All castings shall be properly fettled and dressed, and all surfaces shall be thoroughly cleaned.


Revisions : CI 15.103 of MOM of 15th
MRC (NFC & W + HE)

**APPROVED : Interplant
Material Rationalisation Committee-MRC
(NFC & W + HE)**

CS-216

Rev. No. 01	Amd.No. 01	Reaffirmed	Prepared HARDWAR	Issued Corp. R&D	Dt. of 1st Issue 1 st Oct '77
Dt. : 1-1-2000	Dt : 01.11.2001	Year :			

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8.0 FREEDOM FROM DEFECTS :

The castings shall be free from defects such as blow holes, inclusions, shrinkage cavities, hard spots, cold shuts, cracks etc., which may adversely affect the machining and utility of castings. When it is necessary to remove the risers by flame cutting, care shall be taken to make the cut at a sufficient distance from the body of the casting so as to prevent any defect being introduced into the casting due to local heating.

9.0 CHEMICAL COMPOSITION :

OR ANY OTHER CONVENTIONAL INSTRUMENTAL METHODS

The chemical composition of the material, when analysed in accordance with IS : 4027 (Part 1 to Part 9) (Methods for Chemical analysis of bronzes) shall be as follows :

Element	Percent	
	Minimum	Maximum
*Tin	4.0	6.0
Lead	4.0	6.0
Zinc	4.0	6.0
Phosphorus	---	0.05
**Iron	—	0.3
**Antimony	---	0.3
Aluminium	---	0.01
Total of other elements	---	0.6
Including iron and antimony	---	0.6
Copper plus incidental nickel	Remainder	

* For the purpose of utilising scrap containing a high percentage of tin, it shall be permissible to supply ingots containing tin, up to a maximum of 7.0 percent.

** Iron and antimony together shall not exceed 0.5 percent.

10.0 TEST SAMPLE :

One test specimen shall be selected from each melt for chemical analysis. Care shall be taken to discard the first drillings till a clean oxide free surface is reached :

One tensile test specimen shall be prepared from each melt/consignment.

One casting shall be taken up for fracture test from each melt/consignment.

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Pressure Test :

The number of castings to be subjected to pressure test and the corresponding criteria for conformity shall be subject to agreement between the supplier and the purchaser.

The cost of extra castings required in accordance with the sampling clauses for carrying out different tests shall be borne by the manufacturer.

11.0 MECHANICAL PROPERTIES :

The material, when tested in accordance with IS 1608 shall show the following tensile properties.

01	Mode of Casting Of Test pieces	Tensile Strength N/mm ² (Kgf/mm ²), Min.	Elongation % on $5.65\sqrt{S_0}$, Min.	Hardness HB (min)
	Sand cast (cast on)	185.0 (19.0)	8	60
	Sand Cast (Separately cast)	205.0 (21.0)	12	65

12.0 FRACTURE TEST :

The sample of casting shall be broken in the presence of the representative from BHEL in such a manner that the area of fracture is as large as practicable in order to determine the uniformity of the grain structure of the metal. If the fracture shows segregation or dross or dirt spots or any other defect, all castings produced from the same melt shall be rejected.

13.0 OPTIONAL TEST :

If specified in the purchase order/drawing, the following additional tests shall be conducted on the castings.


- a) Pressure test,
- b) Radiographic test.

The requirements of these tests shall be as prescribed in the order/drawing or as mutually agreed.

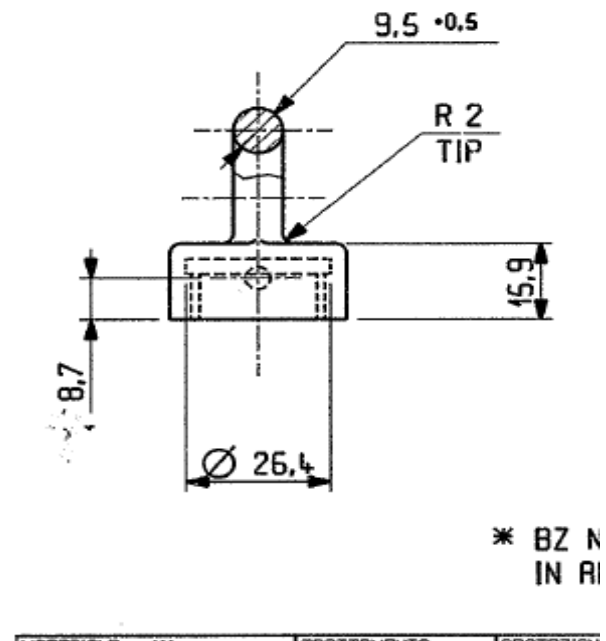
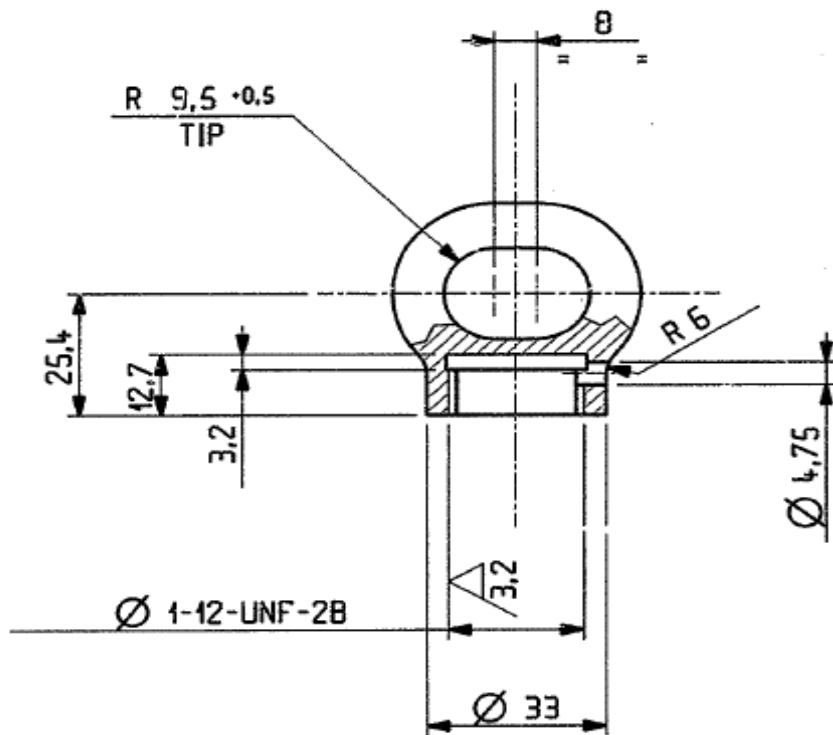
14.0 REPAIR OF CASTINGS :

Castings shall not be repaired unless permission in writing has been obtained previously from the BHEL.

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<p>15.0 Test Certificates :</p> <p>The supplier shall submit five copies of test certificates giving the following information.</p> <p>BHEL Order No.</p> <p>CPS No. 199 41 (Rev. No. 01)</p> <p>Supplier's reference and Name.</p> <p>Heat No.</p> <p>Results of chemical analysis mechanical and all other tests as called for in this specification/order.</p> <p>Drawing/Pattern No.</p> <p>Consignment/Identification No.</p> <p>In addition, supplier shall ensure to enclose one copy each of test certificate along with the dispatch documents to facilitate quick clearance of the material.</p> <p>16.0 PACKING AND MARKING :</p> <p>Castings shall be suitably packed to prevent corrosion and damage during transit. Machined surface shall be properly protected with anti-corrosive compounds.</p> <p>Each package or casting shall be legibly marked with the following information.</p> <p>BHEL Order No.</p> <p>CPS No. AA 19941 Leaded gunmetal castings.</p> <p>Heat No.</p> <p>Identification mark/No.</p> <p>Weight.</p> <p>Supplier's reference and Name.</p> <p>17.0 REFERRED STANDARDS (Latest Publications Including Amendments) :</p> <table data-bbox="363 1509 925 1617"> <tr> <td>1. AA 023 04 02</td> <td>2. IS 1458</td> </tr> <tr> <td>3. IS 1608</td> <td>4. IS 4027</td> </tr> </table>			1. AA 023 04 02	2. IS 1458	3. IS 1608	4. IS 4027
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3. IS 1608	4. IS 4027					

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Drawing No: 127697553
Material Code: W93078297012
Specification AA19941

TECHNO-COMMERCIAL CHECKLIST

SL. NO.	TERMS & CONDITION	VENDOR CONFIRMATION /REMARKS / REPLY
1	BIDDER NAME	
2	GEM BID NO	
3	ITEM IS TO BE SUPPLIED AS PER TECHNICAL SPECIFICATION	
4	ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY	
5	KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.	
6	VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES AS PER ENQUIRY STANDARD ALONG WITH MATERIAL DISPATCH.	
7	VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.	
8	VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.	
9	VENDOR TO CONFIRM TO PROVIDE NON REMOVABLE IDENTIFICATION OF ALL ITEMS AND THEIR REPORT ACCORDINGLY.	
10	RISK PURCHASE: IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT OF ANY OTHER TERMS AND CONDITIONS GIVEN IN PURCHASE ORDER, BHEL MAY CANCEL THE PURCHASE ORDER IN FULL OR PART THEREOF, AND MAY ALSO MAKE THE PURCHASE OF SUCH MATERIAL FROM ELSEWHERE / ALTERNATIVE SOURCE AT THE RISK AND COST OF THE SUPPLIER. BHEL WILL TAKE ALL REASONABLE STEPS TO GET THE MATERIAL FROM ALTERNATE SOURCE AT OPTIMUM COST. IF BIDDER DOES NOT AGREE TO THE ABOVE RISK PURCHASE CLAUSE, BHEL RESERVES THE RIGHT TO REJECT THE OFFER. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.	
11	ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT: IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC. SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF “HOLD” OR “BANNING” A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER “GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS” AVAILABLE AT BHEL’S WEBSITE “ https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors ”	
12	REST GENERAL TERMS AND CONDITIONS AS PER GEM	

1. MSE/MII: THE SUPPLIER NEEDS TO SUBMIT/UPDATE MSE/MII CREDENTIALS ON GEM PORTAL DURING PROFILE UPDATION/ OFFER SUBMISSION STAGE. THE MSE DATA SUBMITTED IS CROSS VERIFIED BY GEM WITH GOVT. OF INDIA UDYAM/NSIC DATABASE THROUGH API INTEGRATION ON REAL TIME BASIS AND FOR MII, A SELF DECLARATION IS BEING GIVEN AND AUTHENTICATED BY AADHAR OTP. IF THE SELLER FAILS TO CLAIM MSE/MII PROVISION ON GEM PORTAL AT PROFILE UPDATION/BID SUBMISSION STAGE, THE SAID SELLER WILL BECOME INELIGIBLE FOR GETTING THE MSE/MII BENEFITS FOR THAT BID AUTOMATICALLY. THE VENDOR CAN ALWAYS CONTACT THE GEM HELPDESK, IN CASE OF ANY ISSUES.
2. THE PRICE QUOTE BY BIDDER SHOULD BE INCLUSIVE OF GST & SHOULD BE ON BHEL HEEP HARIDWAR STORES BASIS.
3. BIDDER'S OFFER IS LIABLE TO BE REJECTED IF THEY DON'T UPLOAD ANY OF THE CERTIFICATES / DOCUMENTS SOUGHT IN THE BID DOCUMENT, ATC AND CORRIGENDUM IF ANY.
4. **RISK PURCHASE:** IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT OF ANY OTHER TERMS AND CONDITIONS GIVEN IN PURCHASE ORDER, BHEL MAY CANCEL THE PURCHASE ORDER IN FULL OR PART THEREOF, AND MAY ALSO MAKE THE PURCHASE OF SUCH MATERIAL FROM ELSEWHERE / ALTERNATIVE SOURCE AT THE RISK AND COST OF THE SUPPLIER. BHEL WILL TAKE ALL REASONABLE STEPS TO GET THE MATERIAL FROM ALTERNATE SOURCE AT OPTIMUM COST. IF BIDDER DOES NOT AGREE TO THE ABOVE RISK PURCHASE CLAUSE, BHEL RESERVES THE RIGHT TO REJECT THE OFFER. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.
5. **ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT:**
IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC.
SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF "HOLD" OR "BANNING" A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER "GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS" AVAILABLE AT BHEL'S WEBSITE <https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors>
6. BIDDERS ARE ADVISED TO CHECK APPLICABLE GST ON THEIR OWN BEFORE QUOTING. BUYER WILL NOT TAKE ANY RESPONSIBILITY IN THIS REGARDS. GST REIMBURSEMENT WILL BE AS PER ACTUALS OR AS PER APPLICABLE RATES (WHICHEVER IS LOWER), SUBJECT TO THE MAXIMUM OF QUOTED GST %.
7. BIDDER SHALL SUBMIT THE FOLLOWING DOCUMENTS ALONG WITH THEIR BID FOR VENDOR CODE CREATION:
A. COPY OF PAN CARD B. COPY OF GSTIN C. COPY OF MSE CERIFICATE
8. DEDICATED /TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT: BIDDER/OEM MUST HAVE DEDICATED/TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT.
9. DATA SHEET OF THE PRODUCT(S) OFFERED IN THE BID, ARE TO BE UPLOADED ALONG WITH THE BID DOCUMENTS. BUYERS CAN MATCH AND VERIFY THE DATA SHEET WITH THE PRODUCT SPECIFICATIONS OFFERED. IN CASE OF ANY UNEXPLAINED MISMATCH OF TECHNICAL PARAMETERS, THE BID IS LIABLE FOR REJECTION.
10. SCOPE OF SUPPLY (BID PRICE TO INCLUDE ALL COST COMPONENTS): ONLY SUPPLY OF GOODS.
11. PRODUCTS SUPPLIED SHALL BE NONTOXIC AND HARMLESS TO HEALTH. IN THE CASE OF TOXIC MATERIALS, MATERIAL SAFETY DATA SHEET MAY BE FURNISHED ALONG WITH THE MATERIAL.
12. WHILE GENERATING INVOICE IN GEM PORTAL, THE SELLER MUST UPLOAD SCANNED COPY OF GST INVOICE AND THE SCREENSHOT OF GST PORTAL CONFIRMING PAYMENT OF GST.

13. PAYMENT TERMS SHALL BE AS PER FOLLOWINGS:

- a) **FOR NON-MSES BIDDER:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 90 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order (THIS IS IN SUPERSESSON OF 10 DAYS' TIME AS PROVIDED IN CLAUSE 12 OF GEM GTC).
- b) **FOR MSES BIDDER:** For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act. Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists /Dealers / Traders etc. for the items offered but not manufactured by themselves.”
- c) **FOR MEDIUM ENTERPRISES:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 60 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order.
- d) Please note that vendor to adhere to the payment terms as per above. No deviation in payment terms shall be accepted. Vendor to submit their offer accordingly.