

कदम कदम मिलाना है ग्राहक सफल बनाना है

Marching Towards Business Excellence



ENQUIRY

TWO PART BID

BPC 0007

E-TENDER

भारत हेवी इलेक्ट्रिकल्स लिमिटेड, पिपलानी, भोपाल- ४६२०२२ (भारत)

सामग्री प्रबंधन विभाग

BHARAT HEAVY ELECTRICALS LIMITED, PIPLANI, BHOPAL-462022 (INDIA)

MATERIALS MANAGEMENT DIVISION

TIN NO- 23573000001ECC NO- AAACB4146PXM009MPCT NO- HEL/05/01/0001/S15/11/79

PHONE NO : 91-755-2500100FAX : 91-755-2500023www.bhel.com

ENQUIRY NOE5953014

ENQUIRY DATE12/07/25

ENQUIRY DUE DATE22/07/25

SUPP NAME AND ADDRESS	SUPP CODE	REV CD	REV NO	REV DATE	NO OF CATY2	NO OF CATY3	ENQ NO OF ITEMS	INDENT NO
	0	1	0	NA	1	4	1	121341088
	GUARANTEE CERTIFICATE		Y	SUPPLY CONDITION SUPPLIER'S IDENTIFICATION MARK SHOULD BE ON EACH PACKING.				
	TEST CERTIFICATE		Y					
	INSTRUCTION BOOKLET		N	TECHNICAL CONDITION AS PER DRG.				
	SAMPLE		N					
	GATE PASS		Y	INSPECTION CONDITION BY BHEL AUTHORISED TPIA AT VENDORS WORK.				

NOTE: QUOTE PRICE BOTH IN FIGURES & WORDS.IN CASE OF MISMATCH PRICE IN WORDS WILL BE VALID,QUOTATIONS NOT BEARING ENQUIRY NO AND DUE DATE LIABLE TO BE REJECTED.

SL NO	MATERIAL CODE	DESC	UNIT	ITEM QTY	QTY VR%	LOT NO	LOT QTY	DEST	DELIVERY DATE
1	BP9094675927	TA 9901AZ POLE END PIECE TO DRG.NO.24303276005 V00 REV. 06. RUST PREVENTIVE SHOULD BE APPLIED ALL OVER THE JOB.	NO	1200.000	30	1	300.000	213	21/08/25
						2	300.000	213	21/09/25
						3	300.000	213	21/10/25
						4	300.000	213	21/11/25

REMARK AS PER E-TENDER ON NIC

DRAWING	Y	PURCH SPEC	N	CATALOUGE	N	Quality Surveillance Plan	Y	TWO PART BID	Y
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NOTE:BHEL,BHOPAL'S Standard Terms & Conditions BP200102 (Latest Revision) form a part of this Enquiry. Bidders may obtain from us copies of these terms and conditions if not already available.

**Note:** During Bid Evaluation, No loading of price with regard to preferential payment of within 45 days will be made on vendore falling under MSMED ACT - OCT 06

Please submit your lowest quotation in sealed envelop essentially superscribed with ENQUIRY NO, DUE DATE AND PARTY'S NAME so as to reach at TENDER ROOM, GROUND FLOOR, ADM BUILDING, BHEL, PIPLANI BHOPAL-462022 by 11.00 am of due date.

1.This is only a request for Quotation & not an order.

2.Small Scale industries should indicate SSI Regn. No. in Quotation/invoice.

3.In case you are not making an offer against this Enquiry, we request you to post a regret letter.

4.Indian vendors to please indicate GSTIN on their quotation.

SPECIAL REMARK: Bid to be submitted through e-procurement. Refer eproc link on BHEL Bhopal B2B site.

Documents Enclosed

1.Drawing. 3.Purchase specification.

2.Catalogue. 4.Quality Surveillance Plan.

NAME : SHRI MANENDRA SINGH

DESG : DY.MANAGER

0755-2505880

manendra1@bhel.in

SIGN & SEAL

ENQUIRY



**MATERIAL MANAGEMENT - TRACTION MACHINES**  
**HEAVY ELECTRICAL PLANT, BHOPAL**  
**BHARAT HEAVY ELECTRICALS LIMITED**

**BHEL ENQUIRY NO. E5953014**  
**DUE ON 22-07-2025**

## NIT TERMS & CONDITIONS:

SL. NO.	DESCRIPTION	DETAILS
1.	<b>RATE CONTRACT TERMS</b>	We intend to enter into a Rate Contract (RC) for ordering up to 12 months from RC freeze date, i.e. RC is to be kept valid for ordering up to 12 months from RC freeze date. Purchase Ordering shall be done as per BHEL requirement against the finalised rate contract & within its validity. Dispatches to be made against our purchase order (computerized) only, which will be issued against this Rate Contract. BHEL reserves the right to cancel/ short close the Rate Contract for unordered qty at any point of time even before the expiry of RC validity without assigning any reason whatsoever it may be.
2.	<b>ITEM DESCRIPTION</b>	TA 9901AZ POLE END PIECE TO DRG.NO.24303276005 V00 REV. 06. RUST PREVENTIVE SHOULD BE APPLIED ALL OVER THE JOB.
3.	<b>QUANTITY</b>	1200 Nos $\pm$ 30%
4.	<b>QUANTITY VARIATION</b>	$\pm$ 30% for each item.
5.	<b>DELIVERY SCHEDULE REQUIREMENT</b>	THE FIRST LOT OF 300 NO. SCHEDULED DELIVERY DATE SHALL BE WITHIN 60 DAYS FROM THE PO DATE AND THEREAFTER FOR EACH SUBSEQUENT LOT OF 300 NO. SCHEDULED DELIVERY DATE SHALL BE WITHIN 30 DAYS FROM THE SCHEDULED DELIVERY DATE OF THE PREVIOUS LOT. EARLY DELIVERY ACCEPTABLE.
6.	<b>DELIVERY TERMS</b>	FOR Destination (BHEL Bhopal)
7.	<b>DELIVERY INSTRUCTION</b>	SUPPLIER'S IDENTIFICATION MARK SHOULD BE ON EACH PACKING.
8.	<b>PAYMENT TERMS</b>	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 16) i.e. 100% payment in 90 days of receipt ( <b>45 days for Micro &amp; Small and 60 days for Medium enterprises as registered in Udyam Certificate as per relevant MSME act in force</b> ) and subject to acceptance of material and relevant documents at BHEL. Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate + 6% for the purpose of bid evaluation.
9.	<b>SPLITTING OF ORDER</b>	<b>Not Applicable.</b>
10.	<b>TECHNICAL PQR (T-PQR)</b>	Technical Pre-Qualification Requirements (T-PQR) for procurement of the items is attached with the NIT. Compliance of all the points in T-PQR is mandatory. In absence of compliance of above and non-submission of documents required against the T-PQR, the Vendor's offer is liable to be rejected. <b>Duly filled T-PQR with desired documents shall be submitted by the Vendor along with the offer.</b> <i>Information/ compliance/ documents submitted by vendor shall be authentic in all aspects. In case any deviation/ false information/ forged documents are observed / revealed later on, BHEL is free to initiate appropriate punitive proceeding against the Vendor as per Prevalent Processes and Guidelines of Company.</i>
11.	<b>FINANCIAL PQR (F-PQR)</b>	<b>Not Applicable.</b>



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12.	<b>QAP</b>	Applicable as attached with the tender.
13.	<b>BID PARTS</b>	Offer shall be submitted by the bidders in Two Parts, i.e. <b>Part-I Technical cum Commercial bid &amp; Part-II Price bid.</b>
14.	<b>PENALTY / LD</b>	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 9) i.e. <b>0.5% of the undelivered portion per week of delay or part thereof, subject to a maximum of 10% of the undelivered order value owing to delayed delivery.</b>
15.	<b>PRICE BASIS</b>	Firm Price basis
16.	<b>PRICING TERMS</b>	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 12)
17.	<b>PRICE VALIDITY</b>	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 13) i.e. <b>Offer shall be valid for a period of 90 days from the date of Techno- commercial (Part-I) bid opening date.</b>
18.	<b>TAXES &amp; DUTIES</b>	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 14)
19.	<b>TECHNICAL CONDITION</b>	As per attached PQR, DRG, SPEC & QAP.
20.	<b>SAMPLE</b>	As per attached Spec
21.	<b>INSPECTION CONDITION</b>	BY BHEL AUTHORISED TPIA AT VENDORS WORK.
22.	<b>TEST CERTIFICATE</b>	All Material TC to be supplied along with material as per Spec. and TC should incorporate Spec.
23.	<b>GUARANTEE / WARRANTY</b>	As per BHEL GTC of ENQUIRY (BP200102B, Cl. No. 18)
24.	<b>GUARANTEE/ WARRANTEE CERTIFICATE</b>	GUARANTEE/ WARRANTEE Certificate to be supplied along with each lot of the material.
25.	<b>EVALUATION CRITERIA</b>	Overall L1 basis
26.	<b>BID SECURITY/ Earnest Money Deposit (EMD)</b>	Not Applicable
27.	<b>PERFORMANCE SECURITY (PBG)</b>	Not Applicable
28.	<b>REVERSE AUCTION</b>	<p><b>Applicable.</b></p> <p>It is declared upfront that this enquiry shall be subject to Reverse Auction (RA). Bidders may kindly note the Reverse Auction (RA) field as mentioned and asked for in enquiry template &amp; ensure to proceed with choosing "YES" against same when asked during submission of their offer to give their acceptance for participation in RA.</p> <p>BHEL shall be resorting to Reverse Auction (RA) (guidelines are available on <a href="https://www.bhel.com/guidelines-reverse-auction-2024">https://www.bhel.com/guidelines-reverse-auction-2024</a> ) for this tender. RA shall be conducted among Techno-Commercially qualified bidders, inline to above guidelines.</p> <p>Price bid of all Techno-Commercially qualified bidders shall be opened for purpose of RA and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es)</p>



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		<p>not participate in reverse auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.</p> <p>Initial ratio of price quoted in price bid (Price BoQ) for tendered item is required to be maintained by supplier after reverse auction while providing price break up.</p>
29.	<b>MSE PREFERENCE</b>	<p>Applicable as per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 29)</p> <p>Tendered qty is not divisible, hence 100% qty for the Purchase preference shall be eligible.</p>
30.	<b>PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA)</b>	<p>Applicable as per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 33). Tendered qty is not divisible, hence 100% qty for the Purchase preference shall be eligible.</p> <p>For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non-local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT</p> <p>The local content to categorize a supplier as a Class-I local supplier / Class-II local supplier / Non-Local supplier and purchase preference to Class-I local supplier, is as defined in above circular issued by DPIIT/ Nodal Ministry.</p> <p>Bidders to also inform the <b>Actual Percentage of the Local Content</b> and the <b>Complete Address of the Location of Local Value Addition</b> as per the <b>attached MII format</b>, failing which no purchase preference shall be granted.</p> <p>In case the bid value is more than Rs. 10 Crore, the declaration relating to the Actual Percentage of the Local Content and the Complete Address of the Location of Local Value Addition shall be <b>Certified by the Statutory Auditor or Cost Auditor, if the OEM is a Company and by a Practicing Cost Accountant or a Chartered Accountant for OEM other than Companies</b> as per the above circular.</p> <p>For contracts valuing more than Rs 10 Crores, local content (in cases of self-certification submitted by bidders at the time of tendering) will be re-verified during execution of contract by Cost/ Chartered Accountant/ <b>Statutory Auditor/Cost Auditor (as applicable)</b> and in case of defaults, penalty upto 10% of the contract value shall be imposed. However, contract once awarded shall not be terminated on this account.</p> <p><i>Bidders or successors can be debarred for false declarations for up to 2 years. Debarred suppliers not eligible for preference in any other procuring entity.</i></p>
31.	<b>INTEGRITY PACT (IP)</b>	Not Applicable
32.	<b>RESTRICTION UNDER RULE 144 (xi) GFR</b>	As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 34)
33.	<b>CONFLICT OF INTEREST</b>	A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests.



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	<p><b>AMONG BIDDERS/ AGENTS AND THEIR DECLARATION</b></p>	<p><b>Bidders having a conflict of interest shall not be eligible to participate in the tender process.</b></p> <p><b>Treatment of cases regarding conflict of interest: -</b></p> <p>The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:</p> <p>-</p> <ul style="list-style-type: none"> <li>i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;</li> <li>ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;</li> <li>iii) Procurement of goods directly from the manufacturers /suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorised distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.</li> <li>iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.</li> </ul> <p>The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. <b>In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.</b></p>
<b>34.</b>	<b>ANNEXURE-IX</b>	<p>The Bidder/Supplier/Contractor will, when presenting his bid, declare whether other Family Firms or Sister Concern Affiliates/Subsidiary firms are participating in the same tender, so as to eliminate the possibility of cartel formation. Format for declaration is available in the NIT documents for this enquiry (Annexure-IX). <b>Same is to be submitted with the offer.</b></p>



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35.	<b>SPECIAL CONDITIONS</b>	<p>Bidders who fall under MSE (Micro &amp; Small Enterprises only) and <b>fail to upload 'UDYAM Registration Certificate (URC)' shall automatically be considered as Non-MSE supplier for this tender.</b></p> <p>Further, it is to be noted that <b>MSE benefits are not being extended to Agent/ Dealer/ Trader/ Distributor (i.e. Other than manufacturer).</b> Supplier has to also provide supporting document(s) such as Agreement Between OEM &amp; Bidder(s) etc.</p> <p>Identification must. Soon after rejection of material, it is to be ensured by supplier that material should be taken back maximum within two weeks after communication for rectification/ replacement &amp; supply back the rectified/ fresh material to BHEL Bhopal within 30 days from rejection. In the event of non-lifting of rejected material by supplier, BHEL will not be responsible for loss of such items to the supplier in any case.</p> <p><b>Offers of suppliers who are in 'HOLD/BANNED' status in BHEL Bhopal PMD shall not be considered.</b></p> <p>Unregistered vendors to submit documents required for registration to BHEL Portal Online (<a href="https://bhel.com/supplier-registration">https://bhel.com/supplier-registration</a>).</p>
36.	<b>OTHER TERMS &amp; CONDITIONS</b>	<p>Other Terms &amp; Conditions as per attached BHEL GTC of ENQUIRY (BP200102B).</p> <p>Any deviation of NIT, BHEL GTC of ENQUIRY (BP200102B) and BHEL PO Terms, where vendor response is not affirmative to be clearly indicated, else BHEL will consider that all above Terms &amp; Conditions are acceptable to vendors.</p>
37.	<b>GEM REGISTRATION</b>	<p>As you are kindly aware that Government e-Marketplace (GeM) is a one stop portal to facilitate Online Procurement of Goods &amp; Services required by various Government Departments/ Organizations/ PSUs.</p> <p>BHEL being a PSU, would like that its suppliers/ contractors also have visibility on this portal so that GeM can be used for procurement by BHEL.</p> <p>Hence, you are requested to get yourselves registered on GeM.</p>
38.	<b>TENDER FEE</b>	Not applicable
39.	<b>BID SUBMISSION WITHIN DUE DATE &amp; TIME</b>	<p>No request for extension of tender due date will be entertained at the time of tender opening and after due date under any circumstances. Hence, all bidders are requested to submit their bid well within due date and time only.</p> <p><b><i>BHEL reserves the right for extension of tender based on the situation without assigning any reason whatsoever it may be.</i></b></p>
40.	<b>DOCUMENTS TO BE FURNISHED ALONG WITH YOUR QUOTATION</b>	<p><b>Signed and Sealed copy of:</b></p> <ul style="list-style-type: none"> <li>- NIT</li> <li>- BHEL GTC of ENQUIRY (BP200102B)</li> <li>- BHEL PO Terms</li> </ul> <p><b>Duly Filled, Signed and Sealed copy of:</b></p> <ul style="list-style-type: none"> <li>- T-PQR along with all supporting documents</li> <li>- Annexure-IX in Company Letterhead</li> <li>- Filled &amp; Signed Techno-Commercial Annexure</li> <li>- Make in India (MII) certificate in attached format</li> </ul> <p><b>Others:</b></p> <ul style="list-style-type: none"> <li>- UDYAM Registration Certificate (<i>as applicable for MSME bidders only</i>)</li> </ul>

**IT IS HEREBY MENTIONED THAT THIS IS E-TENDER SO OFFER SUBMITTED THROUGH E-PROCUREMENT PORTAL ([www.eprocurebhel.co.in](http://www.eprocurebhel.co.in)) SHALL ONLY BE CONSIDERED.**

**Techno-Commercial Annexure**  
(To be filled by supplier inline with NIT requirement and submit with offer)

Tender No.		<b>E5953014 due on 22/07/2025</b>		
Description :		TA 9901AZ POLE END PIECE TO DRG.NO.24303276005 V00 REV. 06. RUST PREVENTIVE SHOULD BE APPLIED ALL OVER THE JOB.  <b>TENDER QTY:- 1200 Nos ± 30%</b>  <b>Delivery required as per NIT.</b>		
Sr. No.	ELEMENTS	Standards	To be offered/confirmed by supplier	Remarks, if any
1	Quotation reference no. & date	As per supplier		
2	HSN / SAC code	As per supplier		
3	Quotation currency	In INR		
4	Contact person	As per supplier		
5	Phone / Mobile	As per supplier		
6	E-Mail	As per supplier		
7	Order to be placed on (Also provide supplier code at BHEL Bhopal, If registered)	As per supplier		
8	Address	As per supplier		
9	Please specify delivery in weeks/ days (Specify item wise, lot wise as per RFQ)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
10	Rate quoted on "Firm" price basis	Yes		
11	Quoted for all the items and full quantity of tender enquiry	Yes / No. (If "No" please mention item number with Qty of regreted items)		
12	Technical specifications	Accepted as per NIT / Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
13	Inspection	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
14	Test certificate & Gurantee certificate as per NIT and specification will be submitted along with each consignment	Yes (In case of "No" your offer may be rejected).		
15	Brand name, if any.	As per supplier		
16	Supply from	As per supplier		
17	Terms of delivery ("FOR DESTINATION " means freight & insurance upto destination in supplier's scope (Destination: CRX Divn, BHEL Bhopal)	Accepted/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
18	Transit insurance (In supplier's scope)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
19	CGST RATE (IN %)	As per supplier		
20	SGST RATE (IN %)	As per supplier		
21	IGST RATE (IN %)	As per supplier		
22	UGST RATE (IN %)	As per supplier		
23	Are you manufacturer of quoted item (s).	Yes / No		
24	Are you registered under MSMED ACT 2006 as small or micro. NOTE: - Firms registered under medium scale shall not be considered eligible for MSE benefits.	Yes / No (If select Yes, please enclosed valid UDYAM certificate)		

**Techno-Commercial Annexure**  
(To be filled by supplier inline with NIT requirement and submit with offer)

Tender No.		<b>E5953014 due on 22/07/2025</b>		
Description :		TA 9901AZ POLE END PIECE TO DRG.NO.24303276005 V00 REV. 06. RUST PREVENTIVE SHOULD BE APPLIED ALL OVER THE JOB.  <b>TENDER QTY.:- 1200 Nos ± 30%</b>  <b>Delivery required as per NIT.</b>		
<b>Sr. No.</b>	<b>ELEMENTS</b>	<b>Standards</b>	<b>To be offered/confirmed by supplier</b>	<b>Remarks, if any</b>
25	Terms of Payment (100% payment in 90 days of receipt (45 days for Micro & Small and 60 days for Medium enterprises as registered in Udyam certificate as per relevant MSME act in force) and subject to acceptance of material and relevant documents at BHEL. Pl refer GTC BP200102B)	As per NIT/ Accepted with deviation (If select Accepted with deviation, please mention the deviation)		
26	SELF CERTIFICATION OF MINIMUM LOCAL CONTENT, IF MORE THAN 50% VALUE ADDITION IS IN INDIA. (Note- In case of tenders worth more than Rs. 10 crores, Suppliers shall necessarily submit certificate from statutory auditor or cost auditor or cost accountant or CA) Please also specify the amount of local content in India. EXAMPLE :if 100% INDIGENOUS (MADE IN INDIA) MARK "Y"/100%	As per supplier		
27	Details of location of value addition / manufacturing	As per supplier		
28	Other Charges (If any)	Applicable / Not Applicable. (If applicable please mention percentage (%) / Value (along with type of charges).		
29	Penalty for delayed performance as per BP200102B & NIT	Yes / No (In case of "No", your offer will be loaded suitably)		
30	Confirmation that documents pertaining to technical PQR has been submitted	Yes / No		
31	Acceptance to "REVERSE AUCTION" if conducted (As per BHEL's RA policy)	Yes / No		
32	Submission of Declaration format with duly sealed & signed (Annexure IX, refer attached) regarding whether other family firms or sister concern affiliates / subsidiary firms are participating in the same tender.	(Yes / No) If No please specify the reason.		
33	General terms and conditions of enquiry (Form No. BP-200102B) and BHEL PO Terms & Conditions is Acceptable.	Yes (In case of "No" your offer may be rejected).		
34	Quotation Validity will be 90 days from the date of techno-commercial bid opening.	Yes		
35	Tender fees submitted	Yes / Not Applicable	Not Applicable	



## **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/Pole end piece\_TA9901/TA9906 Rev.01

Dated: 21/06/2025

### **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 (Please tick)	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 a machinist with in-house machining facility and not a trader.	Machinist with in-house facility/ Trader	Not Required
3.	Vendor should have experience of successfully supplying of component involving milling operation of minimum 200 mm, in preceding 5-years from enquiry opening date.  Vendor to ensure that documents submitted against b) & c) shall correlate with the submitted P.O. copy.	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


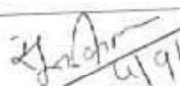
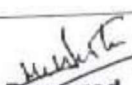
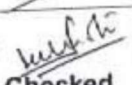
#### **Notes:**

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. Information / compliance / documents submitted by vendor shall be authentic in all aspects. In case any deviation / false information / forged documents are observed, BHEL is free to initiate appropriate punitive proceeding against the supplier.


**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)**

 <b>TME/2011</b>	<b>PRODUCT STANDARD</b> <b>TME DIVISION, BHOPAL</b>		<b>TM 02349</b> PAGE 01 OF 02								
	<p><b>REQUIREMENTS : (Equivalent to EMS 9)</b></p> <ol style="list-style-type: none"> <li>1. <b>Standards and Practices :</b> To meet all requirements of ASTM A536 – (latest revision) Grade 65-45-12, as herein amended.</li> <li>2. <b>Mechanical Properties :</b> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px 10px;">Tensile Strength, psi, min .....</td> <td style="text-align: right; padding: 2px 10px;">65,000/ 457N/mm<sup>2</sup></td> </tr> <tr> <td style="padding: 2px 10px;">Yield Strength, (0.2% offset), psi, min. ....</td> <td style="text-align: right; padding: 2px 10px;">45,000/317N/mm<sup>2</sup></td> </tr> <tr> <td style="padding: 2px 10px;">Elongation in 2 inches, %, min. ....</td> <td style="text-align: right; padding: 2px 10px;">9</td> </tr> <tr> <td style="padding: 2px 10px;">Brinell hardness (3000 kg load, 10 mm ball) max. ....</td> <td style="text-align: right; padding: 2px 10px;">156 – 217</td> </tr> </table> <p>Note : The above properties are required in the casting and constitute the primary basis for acceptance or rejection. If a test bar of proper proportions cannot be obtained from the casting, the microstructure and hardness of the casting shall serve as a basis for acceptance or rejection (see section -3).</p> <p>If a supplier chooses to use separately cast test coupons for foundry control, it shall be his responsibility to correlate the properties of the coupon with those of the casting and be prepared to demonstrate such correlation upon request. The results obtained from test coupons are not the basis final acceptance of actual castings.</p> </li> <li>3. <b>Microstructure :</b> <p>Graphite Form and Distribution : To be 901, minimum, spheroidal and semi-spheroidal graphite, ASTM A247 types I and II, randomly distributed.</p> <p>Matrix Structure : predominately ferritic. No primary carbides allowable.</p> </li> <li>4. <b>Welding :</b> No welding permitted.</li> <li>5. <b>Quality :</b> Castings shall be free from dross, cracks, gas holes, unfused inserts, flaws and excessive shrinkage. Surfaces top be free burnt-on sand and shall be reasonably smooth.</li> <li>6. <b>Test Report :</b> <p>The vendor shall furnish test reports showing the mechanical properties of the material supplied and indicating whether the properties were obtained from a casting or separately cast test coupons.</p> </li> </ol>				Tensile Strength, psi, min .....	65,000/ 457N/mm <sup>2</sup>	Yield Strength, (0.2% offset), psi, min. ....	45,000/317N/mm <sup>2</sup>	Elongation in 2 inches, %, min. ....	9	Brinell hardness (3000 kg load, 10 mm ball) max. ....
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Brinell hardness (3000 kg load, 10 mm ball) max. ....	156 – 217										
Revision : 00  Date : 04/09/2003	Distribution	Qty.	Approved :  4/9/02  <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">                       Prepared                 </div> <div style="text-align: center;">                       Checked                 </div> <div style="text-align: center;">                     4/9/02                      Date                 </div> </div>								

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<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>COPYRIGHT AND CONFIDENTIAL</b>          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       </div>		<b>PRODUCT STANDARD</b> <b>TME DIVISION, BHOPAL</b>	<b>TM 02349</b>
	<b>TME /2011</b>	<b>PAGE 02 OF 02</b>	

**GENERAL INFORMATION :**

This specification covers a medium strength ferritic ductile iron intended for general usage. It may be supplied as cast or as heat, treated, at the vendor's option, provided that all requirements are met.

In very general terms the above specification should be considered for ferrous casting applications which require better castability and wear resistance than low carbon steel and greater ductility, strength and elastic modulus than gray iron. It should not be specified for welding application. For general requirements refer BHEL specification AA19721.

**DRAFTING INFORMATION :**

Application of this material to drawings should be done only with the approval of Materials Engineering Section. Wherever use of this material is specified, it shall be designated as :

MATERIAL : NODULAR IRON

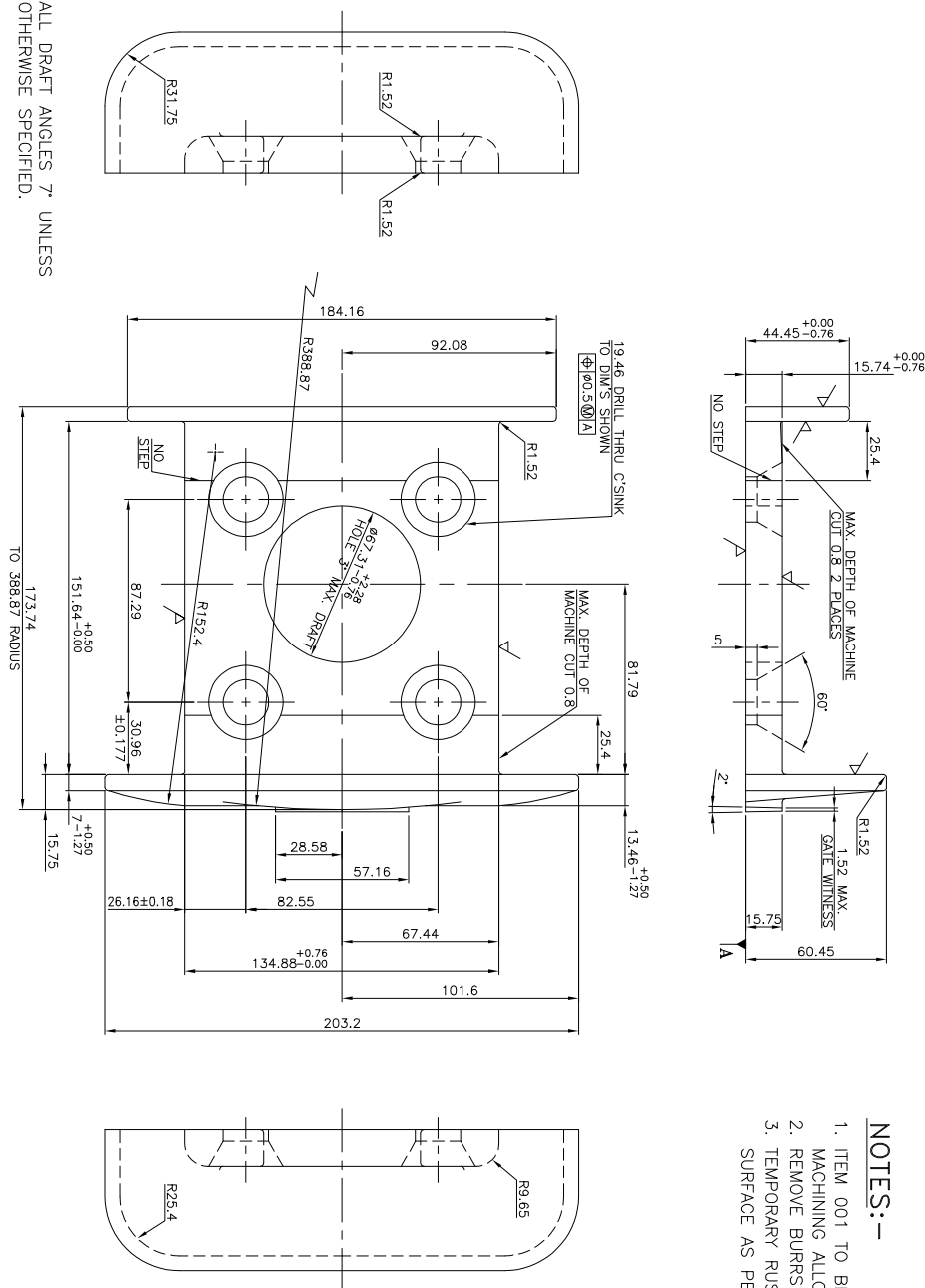
OR

MATERIAL : NOD, IRON

Note : These specifications were developed without considering whether patents may or may not be involved. In all cases, therefore, the supplier shall be required to assume patent liability.


**NOTES:-**

1. ITEM 001 TO BE MADE BY MACHINING FROM CASTING. MACHINING ALLOWANCES OF 3-4 MM. TO BE PROVIDED IN CASTING.
2. REMOVE BURRS AND SHARP EDGES FROM COMPLETE SURFACES.
3. TEMPORARY RUST PREVENTIVE (TRP) TO BE APPLIED ON MACHINED SURFACE AS PER AAS5152.







STYLE LIST	
ITEM NO.	STYLE NO.
001	BP9094675927

[illegible]

ADDITIONAL INFORMATION SIM. DRG. NO. 95798119		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		TRACTION ALTERNATOR TAB9011A	
STATUS OF DRAWING		 BHARAT HEAVY ELECTRICALS LTD. Bhopal		NAME DATE DRN. R.B.V. -SD- 22/09/00 CHD. D.K. -SD- 22/09/00 APPD. M.B. -SD- 22/09/00	
DISTRIBUTION OF PRINTS TME-1, TMM-3, TTN-1		SCALE 2.78		DATE 22/09/00	
REV. DATE ALTERED -SD- 02/28/11/00 APPROVED -SD- DRAWN VIEW UPDATED, DRG. REDRAWN.		UNTO. DIMS. GR. TMM200719 GR.W.		WEIGHT (KGS.) REF. TO ASSY. DRG.	
TITLE 405		NTS		2 430 32 76 006	
DRAWING NO.		005		005	

[illegible]

	BHARAT HEAVY ELECTRICALS LTD				BHOPAL															
	DATE	SIGN	DATE	SIGN	DATE	SIGN	DATE	SIGN	DATE	SIGN	DATE	SIGN	DATE	SIGN	DATE	SIGN				
	DRN	R.B.V.	-SD	22/09/00	DRN	R.B.V.	-SD	22/09/00	DRN	R.B.V.	-SD	22/09/00	DRN	R.B.V.	-SD	22/09/00				
	CHK.	D.K.	-SD	22/09/00	CHK.	D.K.	-SD	22/09/00	CHK.	D.K.	-SD	22/09/00	CHK.	D.K.	-SD	22/09/00				
	APPD.	M.B.	-SD	22/09/00	APPD.	M.B.	-SD	22/09/00	APPD.	M.B.	-SD	22/09/00	APPD.	M.B.	-SD	22/09/00				
DEPT. NAME		TUNOL. DMS. GR		SCALE		WEIGHT (K.G.)		REF. TO ASSY. DRG.		ITEM NO.		DATE		SIGN						
CODE		GR. M. 9		NTS		2.78		2 430 32 76 006		005										
DRAWING NO.		2 430 32 76 006		005																

POLE END PIECE

2 430 32 76 005
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SIZE





**BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL**  
**QUALITY ASSURANCE PLAN FOR MAINPOLE END PLATE MCD TO BHEL ORDERING SPECIFICATION/DRAWING**  
**AS PER PO**

QUALITY PLAN NO. – QAP/QTm/VENDORQAP/2021-22/MAIN POLE END PLATE MCD DTD 12.07.2021 REV 00  
Reference Document- PO DRAWING/SPECIFICATION

Page : 1 of 1

SL. NO	COMPONENT	CHARACTERISTICS	TYPE OF CHECK	QUANTAM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	INSPECTION AGENCY	REMARKS
				TP	TP/A					
1)	Raw material a) Mechanical properties b) Microstructure	All tests	TC verification	100%	100%	TM02349	As per Specification	MTC	BHEL/TP/A	NABL accredited TEST LAB TC. Supplier to get the raw material correlated with material TC
2)	Dimension	Dimension	TC verified & Measurement	100%	20%	As per drawing & specification	As per drawing & Specification	Supplier record	BHEL/TP/A	Witness
3)	Visual	Burr, Sharp edges, surface finish	visual	100%	10%	As per drawing & specification	As per drawing & Specification	Supplier record	BHEL/TP/A	Witness
4)	Identification vendor name, PO & job serial no.	Visual	Visual	100%	10%	As per drawing & specification	As per drawing & Specification	Supplier record	BHEL/TP/A	Witness
5)	Packing to avoid transit damage	Visual	Visual	100%	20%	As per drawing & specification	As per drawing & specification	Packing list for each kit box	BHEL/TP/A	Packing to be such that no damages should occur during transit. 1 kit items should be placed in on 1 box

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Prepared By

Approved By

*Signature*  
Gajendra Singh Rathour / Gajendra Singh Rathour (CFD)  
Sr. Engineer (QC) / Sr. Engineer (QC)  
BHEL, BHOPAL

*Signature*  
Rahul Singh / RAHUL SINGH  
Sr. Engineer (QM) / Sr. Engineer (QM)  
BHEL, BHOPAL