

कदम कदम मिलाना है ग्राहक सफल बनाना है

Marching Towards Business Excellence

|                                                                                              |              |                                                                                                                                                                                                                          |                                   |  |                           |  |
|----------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--|---------------------------|--|
| <br>BPC 0007 | ENQUIRY      | <b>भारत हेवी इलेक्ट्रिकल्स लिमिटेड, पिपलानी, भोपाल- ४६२०२२ (भारत)</b><br><b>सामग्री प्रबंधन विभाग</b><br><b>BHARAT HEAVY ELECTRICALS LIMITED, PIPLANI, BHOPAL-462022 (INDIA)</b><br><b>MATERIALS MANAGEMENT DIVISION</b> |                                   |  | ENQUIRY NO E5953041       |  |
|                                                                                              | TWO PART BID |                                                                                                                                                                                                                          |                                   |  | ENQUIRY DATE 29/10/25     |  |
|                                                                                              | E-TENDER     |                                                                                                                                                                                                                          |                                   |  | ENQUIRY DUE DATE 08/11/25 |  |
| TIN NO- 23573000001                                                                          |              | ECC NO- AAACB4146PXM009                                                                                                                                                                                                  | MPCT NO- HEL/05/01/0001/S15/11/79 |  |                           |  |
| PHONE NO : 91-755-2500100                                                                    |              | FAX : 91-755-2500023                                                                                                                                                                                                     |                                   |  | www.bhel.com              |  |

| 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                                                        | 3           | 6           | 3               | 121354571 |
|                       | GUARANTEE CERTIFICATE |        | Y      | SUPPLY CONDITION SUPPLIER'S IDENTIFICATION MARK SHOULD BE |             |             |                 |           |
|                       | TEST CERTIFICATE      |        | Y      | ON EACH JOB.                                              |             |             |                 |           |
|                       | INSTRUCTION BOOKLET   |        | N      | TECHNICAL CONDITION AS PER DRG.                           |             |             |                 |           |
|                       | SAMPLE                |        | N      |                                                           |             |             |                 |           |
|                       | GATE PASS             |        | Y      | INSPECTION CONDITION AT BHEL BHOPAL                       |             |             |                 |           |

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     | BP9094822741  | TA7009BZ,TA7003 BX/CW INSU. WASHER (TOP) TO DRG. NO. 44303281005 REV04. TO BE SUPPLIED IN PROPER PACKING. PO NO, DRG.NO.& TYPE OF MACHINE SHOULD BE MARK OF EACH JOB.                 | NO   | 180.000  | 30      | 1      | 90.000  | 213  | 24/12/25      |
|       |               |                                                                                                                                                                                       |      |          |         | 2      | 90.000  | 213  | 24/01/26      |
| 2     | BP9094822784  | TA 7009 BZ,TA7003BX/CW INSU. WASHER (BOTTOM ) TO DRG.NO. 44303281003 ITEM 01, REV. 06. PO NO,DRG NO. AND TYPE OF MACHINE TO BE MARKED ON EACH JOB . TO BE SUPPLIED IN PROPER PACKING. | NO   | 180.000  | 30      | 1      | 90.000  | 213  | 24/12/25      |
|       |               |                                                                                                                                                                                       |      |          |         | 2      | 90.000  | 213  | 24/01/26      |
| 3     | BP9094822750  | TA 7009BZ,TA7003 BX/CW INSU. SLEEVE TO DRG.NO. 34303281001 REV.03. PO NO.,DRG.NO. AND TYPE OF MACHINE TO BE MARKED ON EACH JOB. TO BE SUPPLIED IN PROPER PACKING.                     | NO   | 180.000  | 30      | 1      | 90.000  | 213  | 24/12/25      |
|       |               |                                                                                                                                                                                       |      |          |         | 2      | 90.000  | 213  | 24/01/26      |

REMARK

|         |   |            |   |           |   |                           |   |              |   |
|---------|---|------------|---|-----------|---|---------------------------|---|--------------|---|
| DRAWING | Y | PURCH SPEC | Y | CATALOUGE | N | Quality Surveillance Plan | N | TWO PART BID | Y |
|---------|---|------------|---|-----------|---|---------------------------|---|--------------|---|

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.<br><br>1.This is only a request for Quotation & not an order.<br>2.Small Scale industries should indicate SSI Regn. No. in Quotation/invoice.<br>3.In case you are not making an offer against this Enquiry, we request you to post a regret letter.<br>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<br>1.Drawing. 3.Purchase specification.<br>2.Catalogue. 4.Quality Surveillance Plan. | <b>NAME :</b> SHRI MANENDRA SINGH<br><b>DESG :</b> DY.MANAGER<br>0755-2505880<br>manendra1@bhel.in<br><b>SIGN &amp; SEAL</b> |

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# MATERIAL MANAGEMENT - TRACTION MACHINES

HEAVY ELECTRICAL PLANT, BHOPAL

BHARAT HEAVY ELECTRICALS LIMITED

**BHEL ENQUIRY NO. E5953041**

**DUE ON 08-11-2025**

## NIT TERMS & CONDITIONS:

| SL. NO. | DESCRIPTION                          | DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | <b>RATE CONTRACT TERMS</b>           | We intend to enter into a Rate Contracts (RC) for ordering up to 12 months from RC freeze date, i.e. RC are 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>              | <p><b>Item#01:</b> - TA7009BZ, TA7003 BX/CW INSU. WASHER (TOP) TO DRG. NO. 44303281005 REV04. TO BE SUPPLIED IN PROPER PACKING. PO NO, DRG. NO. &amp; TYPE OF MACHINE SHOULD BE MARK OF EACH JOB.</p> <p><b>Item#02:</b> - TA 7009 BZ, TA7003BX/CW INSU. WASHER (BOTTOM) TO DRG.NO. 44303281003 ITEM 01, REV. 06. PO NO, DRG NO. AND TYPE OF MACHINE TO BE MARKED ON EACH JOB. TO BE SUPPLIED IN PROPER PACKING.</p> <p><b>Item#03:</b> - TA 7009BZ, TA7003 BX/CW INSU. SLEEVE TO DRG.NO. 34303281001 REV.03. PO NO., DRG.NO. AND TYPE OF MACHINE TO BE MARKED ON EACH JOB. TO BE SUPPLIED IN PROPER PACKING.</p>         |
| 3.      | <b>TECHNICAL CONDITION</b>           | As per attached list of attached Drawings & Spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4.      | <b>QUANTITY</b>                      | <b>180 Nos of each item</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 5.      | <b>QUANTITY VARIATION</b>            | ± 30%.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6.      | <b>SPLITTING OF ORDER</b>            | <a href="#">Not Applicable</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 7.      | <b>DELIVERY SCHEDULE REQUIREMENT</b> | For the 1st lot of 90 Nos of item01, 02 & 03 scheduled delivery date shall be within 60 days from the PO date and thereafter for each subsequent lot of 90 Nos of item01, 02 & 03. scheduled delivery date shall be within 30 days from the scheduled delivery date of the previous lot. Early delivery acceptable.                                                                                                                                                                                                                                                                                                       |
| 8.      | <b>DELIVERY TERMS</b>                | FOR Destination (BHEL Bhopal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9.      | <b>DELIVERY INSTRUCTION</b>          | Supplier identification (viz. Vendor code, PO number, SN etc) is must on the job                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10.     | <b>QAP</b>                           | Not Applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11.     | <b>INSPECTION CONDITION</b>          | <a href="#">Inspection at BHEL</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 12.     | <b>SAMPLE</b>                        | As per attached Drg, Spec (As applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 13.     | <b>TEST CERTIFICATE</b>              | All Material TC to be supplied along with material as per Drg Spec. and TC should incorporate Spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 14.     | <b>GUARANTEE / WARRANTY</b>          | As per BHEL GTC of ENQUIRY (BP200102B, Cl. No. 18)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



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HEAVY ELECTRICAL PLANT, BHOPAL

BHARAT HEAVY ELECTRICALS LIMITED

**BHEL ENQUIRY NO. E5953041**

**DUE ON 08-11-2025**

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|-----|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15. | <b>GUARANTEE/<br/>WARRANTEE<br/>CERTIFICATE</b>                    | GUARANTEE/ WARRANTEE Certificate to be supplied along with each lot of the material.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 16. | <b>INVOICE &amp;<br/>DOCUMENTS<br/>SUBMISSION<br/>FOR PAYMENT.</b> | For supply orders placed on Indian Suppliers: Irrespective of the value of the invoice amount, the bidder / vendor should necessarily upload the despatch & invoice details on BHEL SUVIDHA portal at <a href="https://suvidha.bhel.in/suvidha/">https://suvidha.bhel.in/suvidha/</a> , prior to despatch. All documents as per PO checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and upto Rs five lakhs, in case they were not digitally signed and uploaded on the portal.<br>The material will not be accepted inside BHEL in absence of the above. |
| 17. | <b>PAYMENT<br/>TERMS</b>                                           | As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 16)<br><br>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.<br>Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate + 6% for the purpose of bid evaluation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 18. | <b>TECHNICAL PQR<br/>(T-PQR)</b>                                   | Technical Pre-Qualification Requirements (T-PQR) for procurement of the items is attached with the NIT.<br>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.<br><b>Duly filled T-PQR with desired documents shall be submitted by the Vendor along with the offer.</b><br><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>                                                                                                                                                                                                 |
| 19. | <b>FINANCIAL PQR<br/>(F-PQR)</b>                                   | <i>Not Applicable.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 20. | <b>BID PARTS</b>                                                   | Offer shall be submitted by the bidders in Two Parts,<br>i.e. <b>Part-I Technical cum Commercial bid &amp; Part-II Price bid.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 21. | <b>PENALTY / LD</b>                                                | As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 9)<br>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 22. | <b>PRICE BASIS</b>                                                 | Firm Price basis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 23. | <b>PRICING TERMS</b>                                               | As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 24. | <b>PRICE VALIDITY</b>                                              | As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 13)<br>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 25. | <b>TAXES &amp;<br/>DUTIES</b>                                      | As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



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BHARAT HEAVY ELECTRICALS LIMITED

**BHEL ENQUIRY NO. E5953041**

**DUE ON 08-11-2025**

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|-----|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26. | EVALUATION CRITERIA                                              | Individual item L1 basis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 27. | EVALUATION IN CASE OF MORE THAN ONE L-1 BIDDER                   | In the course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders.<br>In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s).<br>Ranking will be done accordingly. Decision of BHEL in such situations shall be final and binding.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 28. | BID SECURITY/ Earnest Money Deposit (EMD)                        | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 29. | PERFORMANCE SECURITY (PBG)                                       | Not Applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 30. | REVERSE AUCTION                                                  | Not Applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 31. | MSE PREFERENCE                                                   | Applicable as per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 29)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 32. | PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA)                 | Not Applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 33. | INTEGRITY PACT (IP)                                              | Not Applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 34. | RESTRICTION UNDER RULE 144 (xi) GFR                              | As per attached BHEL GTC of ENQUIRY (BP200102B, Cl. No. 34)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 35. | CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS AND THEIR DECLARATION | <p>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.<br/><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><br/>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> <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</li> </ul> |



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|-----|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                    | <p>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.</p> <p>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.</p> <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> |
| 36. | ANNEXURE-IX        | <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 37. | SPECIAL CONDITIONS | <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



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| <b>38.</b> | <b>OTHER TERMS &amp; CONDITIONS</b>                        | Other Terms & Conditions as per attached BHEL GTC of ENQUIRY (BP200102B). 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 & Conditions are acceptable to vendors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>39.</b> | <b>GEM REGISTRATION</b>                                    | As you are kindly aware that Government e-Marketplace (GeM) is a one stop portal to facilitate Online Procurement of Goods & Services required by various Government Departments/ Organizations/ PSUs.<br>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.<br>Hence, you are requested to get yourselves registered on GeM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>40.</b> | <b>TENDER FEE</b>                                          | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>41.</b> | <b>BID SUBMISSION WITHIN DUE DATE &amp; TIME</b>           | 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.<br><b><i>BHEL reserves the right for extension of tender based on the situation without assigning any reason whatsoever it may be.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>42.</b> | <b>DOCUMENTS TO BE FURNISHED ALONG WITH YOUR QUOTATION</b> | <b>Signed and Sealed copy of:</b> <ul style="list-style-type: none"> <li>- NIT</li> <li>- BHEL GTC of ENQUIRY (BP200102B)</li> <li>- BHEL PO Terms</li> </ul> <b>Duly Filled, Signed and Sealed copy of:</b> <ul style="list-style-type: none"> <li>- Techno-Commercial Annexure</li> <li>- T-PQR along with all supporting documents</li> <li>- <b>Annexure-IX</b> in Company Letterhead</li> <li>- Annexure A for OEM &amp; MSE Declaration.</li> <li>-</li> </ul> <b>Others:</b> <ul style="list-style-type: none"> <li>- UDYAM Registration Certificate (<i>as applicable for MSME bidders only</i>)</li> </ul>                                                                                                                                                                                                                                                                                                                                 |
| <b>43.</b> | <b>INVOICING THROUGH SUVIDHA PORTAL</b>                    | For supply orders placed on Indian Suppliers, irrespective of the value of the invoice amount, the bidder / vendor should necessarily upload the despatch & invoice details on BHEL SUVIDHA portal at <a href="https://suvidha.bhel.in/suvidha/">https://suvidha.bhel.in/suvidha/</a> , prior to despatch. All documents as per PO checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and upto Rs five lakhs, in case they were not digitally signed and uploaded on the portal. The material will not be accepted inside BHEL in absence of the above. |

**IT IS HEREBY MENTIONED THAT THIS IS E-TENDER SO OFFER SUBMITTED THROUGH E-PROCUREMENT PORTAL (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.    |                                                                                                                                                              | E5953041 due on 08/11/2025                                                                                                                                                                                                                                                         |                                     |                 |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|
| Description : |                                                                                                                                                              | <b>Item01:- INSU. WASHER (TOP) 44303281005 REV04.</b><br><b>Item02:- INSU. WASHER (BOTTOM) 44303281003 ITEM01, REV06.</b><br><b>Item03:- INSU.SLEEVE TO DRG. NO. 34303281001 REV03</b><br><b>TENDER QTY:- 180 Nos +/-30% for each item</b><br><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.<br>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.    |                                                                                                                                                                                                                                                                                                                                                                                           | E5953041 due on 08/11/2025                                                                                                                                                                                                                                                             |                                     |                 |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|
| Description : |                                                                                                                                                                                                                                                                                                                                                                                           | <b>Item01: - INSU. WASHER (TOP) 44303281005 REV04.</b><br><b>Item02: - INSU. WASHER (BOTTOM) 44303281003 ITEM01, REV06.</b><br><b>Item03: - INSU.SLEEVE TO DRG. NO. 34303281001 REV03</b><br><b>TENDER QTY.:- 180 Nos +/-30% for each item</b><br><b>Delivery required as per NIT.</b> |                                     |                 |
| Sr. No.       | ELEMENTS                                                                                                                                                                                                                                                                                                                                                                                  | Standards                                                                                                                                                                                                                                                                              | To be offered/confirmed by supplier | Remarks, if any |
| 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.<br>(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/not applicable                                                                                                                                                                                                                                                         |                                     |                 |
| 27            | Details of location of value addition / manufacturing                                                                                                                                                                                                                                                                                                                                     | As per supplier/not applicable                                                                                                                                                                                                                                                         |                                     |                 |
| 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)                                                                                                                                                                                                                                                                                                                    | Not applicable                                                                                                                                                                                                                                                                         |                                     |                 |
| 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)<br>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                      |                 |

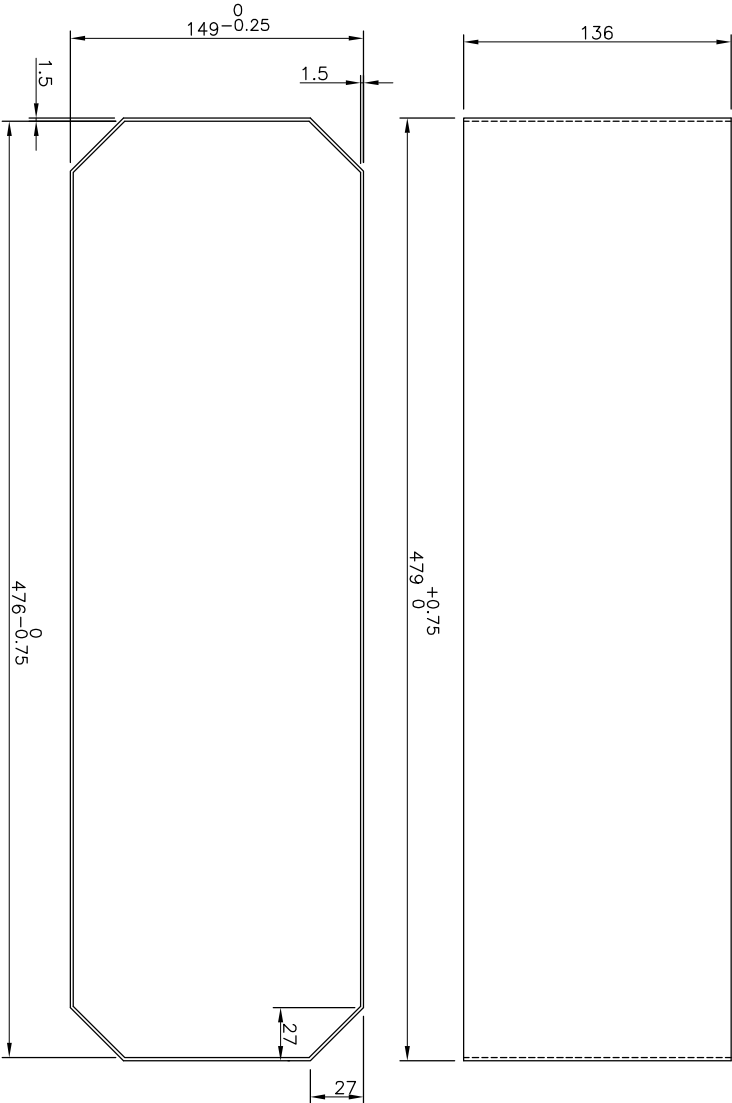
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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

1001823034C

DRG. NO.



NOTES:-

1. INSULATION SLEEVE TO BE MADE OF EPOXY GLASS TO AA 22421 & TO BE FINISHED TO REQUIRED DIMENSIONS BY GRINDING.
2. SHARP EDGES TO BE REMOVED BY GRINDING FOR EASY INSERTION DURING ASSY. ON POLE.

9

12

|               |              |               |
|---------------|--------------|---------------|
| INVENTORY NO. | SIGN. & DATE | REF. DRG. NO. |
|---------------|--------------|---------------|

|                          |         |         |         |          |
|--------------------------|---------|---------|---------|----------|
| REV                      | DATE    | ALTERED | CHECKED | APPROVED |
| 03                       | 7.11.12 |         |         |          |
| CHAMFER DIMN. 27 WAS 20. |         |         |         |          |

|                                                             |         |         |         |          |
|-------------------------------------------------------------|---------|---------|---------|----------|
| REV                                                         | DATE    | ALTERED | CHECKED | APPROVED |
| 02                                                          | 07.8.12 |         |         |          |
| IN TITLE BLOCK CW WAS NOT ON. CHAMFER AT CORNER WAS NOT ON. |         |         |         |          |

|             |         |         |          |                   |    |             |     |            |             |          |      |      |
|-------------|---------|---------|----------|-------------------|----|-------------|-----|------------|-------------|----------|------|------|
| VAR 00      | REMARKS | VAR NO. | ITEM NO. | DESCRIPTION       | ST | DRAWING NO. | VAR | MATL. CODE | MATL. SPON. | UNIT WT. | QTY. | ZONE |
|             |         |         | 001      | INSULATION SLEEVE |    |             |     | AA22421    |             | 1.0      |      |      |
| CARD TYPE-3 |         |         |          |                   |    |             |     |            |             |          |      |      |
| CARD TYPE-1 |         |         |          |                   |    |             |     |            |             |          |      |      |
| CARD TYPE-2 |         |         |          |                   |    |             |     |            |             |          |      |      |

ADDITION INFORMATION  
DRG.D4275141&D4275171(AME)  
STATUS OF DRAWING

TYPE OF PRODUCT  
OR  
NAME OF CUSTOMER/PROJECT

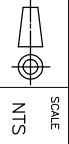
TA7003 BX/CW



BHARAT HEAVY ELECTRICALS LTD.  
BHOPAL

|      |            |    |          |        |     |
|------|------------|----|----------|--------|-----|
| DRN  | M.K.SAXENA | SD | 9.10.00  | NO. OF | VAR |
| CND  | S.P.SINGH  | SD | 9.10.00  |        |     |
| APPD | S.P.SINGH  | SD | 10.10.00 |        |     |

|       |     |                 |
|-------|-----|-----------------|
| DEPT. | TME | GRADE OF UNTOL. |
| CODE  | 405 | AA0230208       |



|       |             |                    |          |        |      |
|-------|-------------|--------------------|----------|--------|------|
| SCALE | WEIGHT (kg) | REF. TO ASSY. DRG. | ITEM NO. | NO. OF | REV. |
| NTS   | 1.0         | 24303281003        | 004      | 001    |      |

INSULATION SLEEVE

DRAWING NO.  
34303281001

SHEET NO. 01

NO. OF SHEET  
01

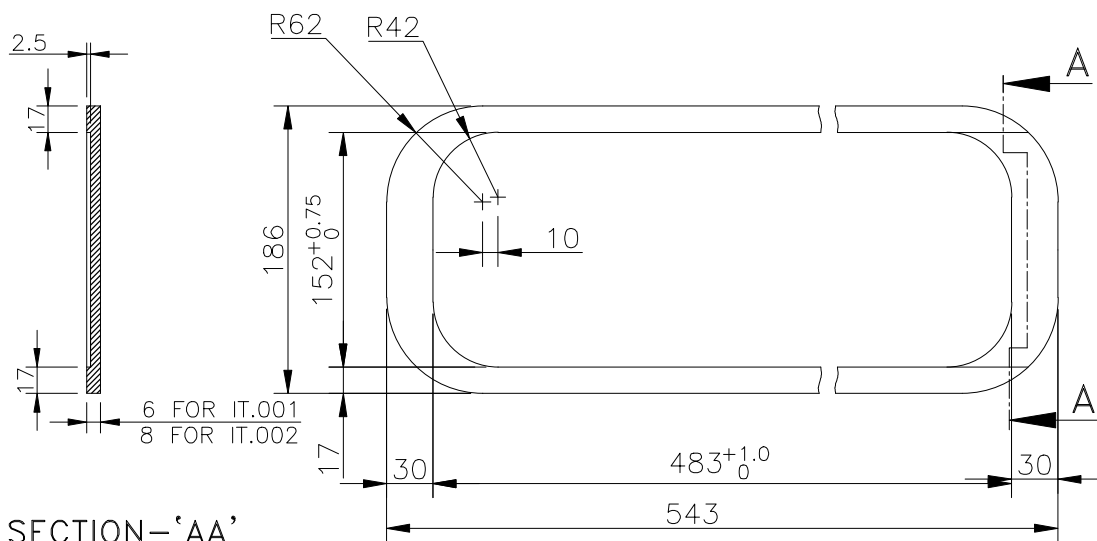
SIZE A3

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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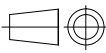
|                                                          |          |          |                        |          |          |                          |             |             |
|----------------------------------------------------------|----------|----------|------------------------|----------|----------|--------------------------|-------------|-------------|
| REV.                                                     | DATE     | ALTERED  | REV.                   | DATE     | ALTERED  | B.K.                     | ADDITIONAL  | SIM-DRAWING |
| 04                                                       | 10.09.13 | CHECKED  | 03                     | 12.03.10 | CHECKED  | -SD-                     | INFORMATION | 44303211004 |
|                                                          |          | APPROVED |                        |          | APPROVED | S.K.Y.                   |             |             |
| DIM.35 (BOTH SIDE) & DIM30 WERE ON. SECTION-AA MODIFIED. |          |          | DRG. REDRAWN & UPDATED |          |          | STATUS OF DRAWING        |             |             |
| DIM.20(BOTH SIDE) WAS 17.                                |          |          |                        |          |          | DISTRIBUTION TME-1 CIM-4 |             |             |
|                                                          |          |          |                        |          |          | OF PRINTS TAM-4 TIX-1    |             |             |
| REV.                                                     | DATE     | ALTERED  | REV.                   | DATE     | ALTERED  |                          |             |             |
| 05                                                       | 08.08.14 | CHECKED  | 06                     | 21.05.16 | CHECKED  |                          |             |             |
|                                                          |          | APPROVED |                        |          | APPROVED |                          |             |             |
| IN BOM IT.002 & NOTE-2 WERE NOT ON.                      |          |          | DIMN. 17 WAS 20.       |          |          |                          |             |             |



SECTION-'AA'

## NOTES:-

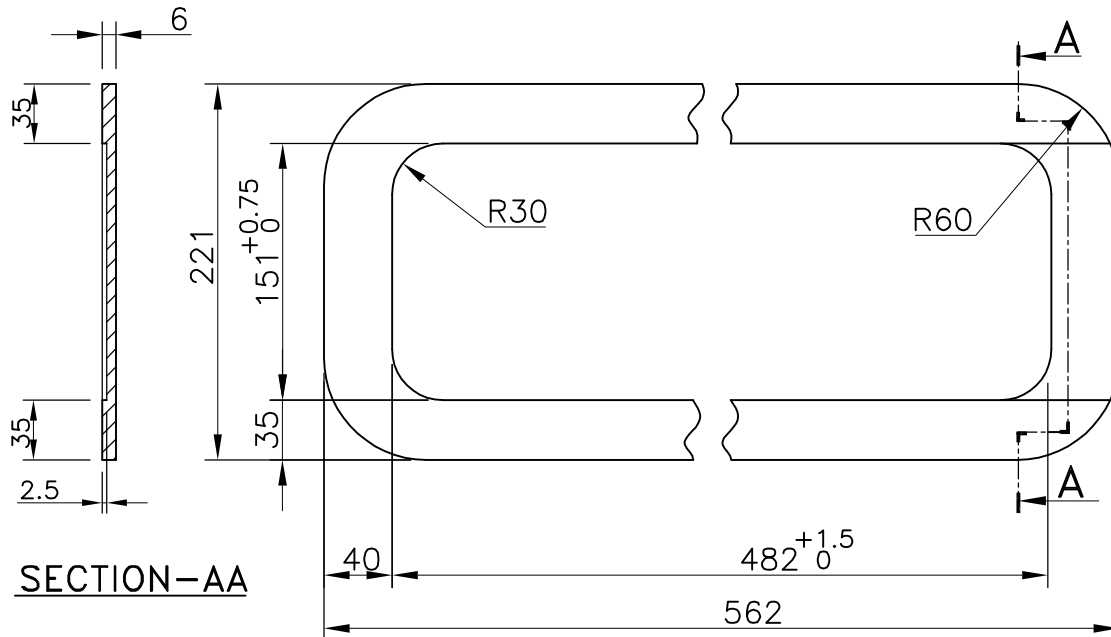
1. EPOXY GLASS LAMINATE WASHER TO BE MADE IN ONE PIECE EITHER MOULDED OR MACHINED
2. ITEMS 001 & 002 TO BE USED IN ACCORDANCE WITH HEIGHT OF ROTOR FIELD COIL.

|               |                                                                                                                             |                 |                                                                                                  |                         |               |                    |          |             |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|-------------------------|---------------|--------------------|----------|-------------|
| REF. DRG. NO. | SEE NOTE                                                                                                                    | 002             | INSULATION WASHER<br>8TK.X186X543                                                                | AA22415                 | KG            | 0.30               |          |             |
|               | SEE NOTE                                                                                                                    | 001             | INSULATION WASHER<br>6TK.X186X543                                                                | AA2241715093<br>AA22415 | KG            | 0.22               |          |             |
|               | VAR. 00                                                                                                                     | REMARKS         | VAR. ITEM NO.                                                                                    | DESCRIPTION             | STD           | 65                 |          |             |
|               | 28                                                                                                                          | CARD TYPE-3     | 28                                                                                               | CARD TYPE-1             | 28            | CARD TYPE-2        |          |             |
| SIGN. & DATE  |  BHARAT HEAVY ELECTRICALS LTD.<br>BHOPAL |                 |                                                                                                  |                         | NAME          | SIGN               | DATE     | NO. OF VAR. |
|               |                                                                                                                             |                 |                                                                                                  |                         | DRN           | M.K.S.             | -Sd-     | 29.09.00    |
|               |                                                                                                                             |                 |                                                                                                  |                         | CKD           |                    |          |             |
|               |                                                                                                                             |                 |                                                                                                  |                         | APPD          | S.P.SINGH          | -Sd-     | 29.09.00    |
| INVENTORY NO. | DEPT TME                                                                                                                    | UNTOL.DIMS. GR. |  SCALE<br>NTS |                         | WEIGHT (K.G.) | REF. TO ASSY. DRG. | ITEM NO. | NO. OF ITEM |
|               | CODE 405                                                                                                                    | AA0230208       |                                                                                                  |                         |               | 24303281003        | 007      | 002         |
|               | TITLE                                                                                                                       |                 |                                                                                                  |                         |               | DRAWING NO.        | REV.     |             |
|               | INSULATION WASHER (BOTTOM)<br>TA7003BX/CW                                                                                   |                 |                                                                                                  |                         |               | 44303281003        | 06       |             |
|               |                                                                                                                             |                 |                                                                                                  |                         | SHT. No. 01   | NO. OF SHT. 01     |          |             |

(ALL DIMENSIONS ARE IN mm)

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|                                                                     |          |          |                                             |             |              |
|---------------------------------------------------------------------|----------|----------|---------------------------------------------|-------------|--------------|
| REV.                                                                | DATE     | ALTERED  | B.K                                         | ADDITIONAL  | SIM. DRG.NO. |
| 03                                                                  | 10.09.13 | CHECKED  | -SD-                                        | INFORMATION | 44303211001  |
|                                                                     |          | APPROVED | S.P.S.                                      |             |              |
| DIM.35 (BOTH SIDE) & 30 WERE ON.SECTION-AA MODIFIED. DIM.40 WAS 37. |          |          | DRG. UPDATED & DIGITISED. STYLE LIST ADDED. |             |              |
|                                                                     |          |          | STATUS OF DRAWING                           |             |              |
|                                                                     |          |          | DISTRIBUTION OF PRINTS                      |             |              |
|                                                                     |          |          | TME-1 TAM-4<br>CIM-4 TIX-1                  |             |              |
| REV.                                                                | DATE     | ALTERED  | B.K                                         |             |              |
| 04                                                                  | 19.11.14 | CHECKED  | -SD-                                        |             |              |
|                                                                     |          | APPROVED | S.P.S.                                      |             |              |
| DIMNS. 221 & 35 WERE 231 & 40.                                      |          |          |                                             |             |              |



| STYLE LIST |        |           |
|------------|--------|-----------|
| VAR.       | IT.NO. | STYLE NO. |
|            |        |           |

NOTE:—

1. EPOXY GLASS LAMINATE WASHER TO BE MADE IN ONE  
PIECE EITHER MOULDED OR MACHINED.

|                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                        |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
|--------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------|--------------|-----------------------|-----------------------------------|--------------------|---------------------------|--------|--------------------|-------------------------|----|----|--|--|------|------|------|-------------|-----|--------|------|---------|---|-----|-----------|------|---------|------|-----------|------|---------|
| REF. DRG. NO.                                    |           | PIECE EITHER MOULDED OR MACHINED.                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                        |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| 65                                               | VAR. 00   | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                 | 75                               | 25                                     | 27           | 29                    | 58                                | 59                 | 46                        | 54     | 55                 | 56                      | 68 | 71 |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
|                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                         | 001                              | INSULATION WASHER<br>6THK.X221X562 LG. |              |                       |                                   |                    | AA22411715095<br>AA22415  |        | KG.                | 0.63                    |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
|                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  | DESCRIPTION                            |              |                       |                                   | STD                | MATL. CODE<br>MATL. SPCN. | A<br>C | UNIT               | UNIT WT.<br>KG.<br>QTY. |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| 28 ——— CARD TYPE-3                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  | 28 ——— CARD TYPE-1                     |              |                       |                                   | 28 ——— CARD TYPE-2 |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| SIGN. & DATE                                     |           | <div><div></div><div><div>BHARAT HEAVY ELECTRICALS LTD.</div><div>BHOPAL</div></div></div> <table><tr><td></td><td>NAME</td><td>SIGN</td><td>DATE</td><td>NO. OF VAR.</td></tr><tr><td>DRN</td><td>M.K.S.</td><td>—Sd—</td><td>28.9.00</td><td rowspan="3">—</td></tr><tr><td>CKD</td><td>S.P.SINGH</td><td>—Sd—</td><td>28.9.00</td></tr><tr><td>APPD</td><td>S.P.SINGH</td><td>—Sd—</td><td>28.9.00</td></tr></table> |                                  |                                        |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  | NAME | SIGN | DATE | NO. OF VAR. | DRN | M.K.S. | —Sd— | 28.9.00 | — | CKD | S.P.SINGH | —Sd— | 28.9.00 | APPD | S.P.SINGH | —Sd— | 28.9.00 |
|                                                  | NAME      | SIGN                                                                                                                                                                                                                                                                                                                                                                                                                    | DATE                             | NO. OF VAR.                            |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| DRN                                              | M.K.S.    | —Sd—                                                                                                                                                                                                                                                                                                                                                                                                                    | 28.9.00                          | —                                      |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| CKD                                              | S.P.SINGH | —Sd—                                                                                                                                                                                                                                                                                                                                                                                                                    | 28.9.00                          |                                        |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| APPD                                             | S.P.SINGH | —Sd—                                                                                                                                                                                                                                                                                                                                                                                                                    | 28.9.00                          |                                        |              |                       |                                   |                    |                           |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| INVENTORY NO.                                    |           | DEPT TME<br>CODE 405                                                                                                                                                                                                                                                                                                                                                                                                    | UNTOLDIMS. GR.<br>AA0230208<br>F |                                        | SCALE<br>NTS | WEIGHT (K.G.)<br>0.63 | REF. TO ASSY. DRG.<br>24303281003 |                    | ITEM NO.<br>003           |        | NO. OF ITEM<br>001 |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
| TITLE<br>INSULATION WASHER(TOP)<br>TA-7003 BX 14 |           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                        |              |                       | DRAWING NO.<br>44303281005        |                    |                           |        | REV.<br>04         |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |
|                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                        |              |                       | SHT. No. 01                       |                    | NO. OF SHT. 01            |        |                    |                         |    |    |  |  |      |      |      |             |     |        |      |         |   |     |           |      |         |      |           |      |         |

|                                                                                                                                                                                                                                                                                                                                                                             |                                           |            |                                                                                 |             |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|---------------------------------------------------------------------------------|-------------|------------------|
|                                                                                                                                                                                                                                                                                            | <b>CORPORATE PURCHASING SPECIFICATION</b> |            |                                                                                 | AA 224 15   |                  |
|                                                                                                                                                                                                                                                                                                                                                                             |                                           |            |                                                                                 | Rev. No. 02 |                  |
|                                                                                                                                                                                                                                                                                                                                                                             |                                           |            |                                                                                 | PAGE 1 OF 5 |                  |
| <b>EPOXY LAMINATED GLASS FABRIC BASE SHEET<br/>(TEMPERATURE INDEX 155)</b>                                                                                                                                                                                                                                                                                                  |                                           |            |                                                                                 |             |                  |
| <p><b>1.0 GENERAL:</b></p> <p>This specification governs the quality requirements of laminated sheet made from layers of fine and plain woven glass fabric (non-alkaline glass type E) having suitable silane/volan finish with good electrical properties using thermosetting epoxy resin as the bonding medium. The material has a temperature index of at least 155.</p> |                                           |            |                                                                                 |             |                  |
| <p><b>2.0 APPLICATION:</b></p> <p>This material may be used with discretion for insulating spacers, wedges, packers and pressed parts of electrical machines.</p>                                                                                                                                                                                                           |                                           |            |                                                                                 |             |                  |
| <p><b>3.0 COMPLIANCE WITH NATIONAL STANDARDS:</b></p> <p>The material shall comply, in general, with the requirements of the following standards and also meet the requirements of this specification.</p> <p>NEMA-LI-1: 1989,Gr. G-11.</p>                                                                                                                                 |                                           |            |                                                                                 |             |                  |
| <p><b>4.0 DIMENSIONS AND TOLERANCES:</b></p>                                                                                                                                                                                                                                                                                                                                |                                           |            |                                                                                 |             |                  |
| <p><b>4.1 Sizes:</b></p> <p>Thickness, width and length shall be as stated on BHEL order.</p>                                                                                                                                                                                                                                                                               |                                           |            |                                                                                 |             |                  |
| <p><b>4.2 Preferred thickness (mm):</b></p> <p>0.5, 1, 1.5, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50 and 70.<br/>Other thickness can also be ordered.</p>                                                                                                                                                                                                           |                                           |            |                                                                                 |             |                  |
| <p><b>4.3 Tolerances:</b></p>                                                                                                                                                                                                                                                                                                                                               |                                           |            |                                                                                 |             |                  |
| <p><b>4.3.1 Thickness:</b></p> <p>Thickness of the sheet shall not depart at any point from the nominal thickness by more than the appropriate value as shown in the following table:</p>                                                                                                                                                                                   |                                           |            |                                                                                 |             |                  |
| <b>Revisions :</b><br><b>Cl: 32.4.43 of MOM of MRC-E</b>                                                                                                                                                                                                                                                                                                                    |                                           |            | <b>APPROVED :</b><br>INTERPLANT MATERIAL<br>RATIONALISATION COMMITTEE-MRC ( E ) |             |                  |
| Rev. No. 02                                                                                                                                                                                                                                                                                                                                                                 | Amd.No.                                   | Reaffirmed | Prepared                                                                        | Issued      | Dt. of 1st Issue |
| Dt:15.01.2003                                                                                                                                                                                                                                                                                                                                                               | Dt :                                      | Year :     | HYDERABAD                                                                       | Corp. R&D   | May, 1980        |

|                    |                                           |                                                                                     |
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| Thickness, mm |                  | Permissible variation from nominal thickness, mm |
|---------------|------------------|--------------------------------------------------|
| Above         | upto & including |                                                  |
| -             | 0.5              | 0.10                                             |
| 0.5           | 2                | 0.20                                             |
| 2             | 3                | 0.25                                             |
| 3             | 5                | 0.50                                             |
| 5             | 7                | 0.75                                             |
| 7             | 10               | 0.90                                             |
| 10            | 15               | 1.10                                             |
| 15            | 20               | 1.25                                             |
| 20            | 25               | 1.40                                             |
| 25            | 30               | 1.50                                             |
| 30            | 40               | 1.75                                             |
| 40            | 50               | 2.00                                             |
| 50            | 60               | 2.50                                             |
| 60            | 70               | 3.00                                             |

**4.3.2 Width and Length:**

| Size, mm   | Tolerance, ± mm |
|------------|-----------------|
| Below 1000 | 35              |
| Above 1000 | 50              |

**4.4 Flatness (for sheets 3.0mm and above):**

The flatness of sheets shall be such that when a sheet is placed without restraint on a flat surface, concave side, if present, up, departure at any point of the surface from a light straight edge laid in any direction upon it shall not exceed the following:

- 0.50 mm under a 300 mm straight edge.
- 3.00 mm under a 600 mm straight edge.
- 6.00 mm under a 1000 mm straight edge.

**5.0 FINISH:**

The surface of the sheets shall be even, smooth, free from visible defects like blisters, loose fibres, resin concentration, delamination, wrinkles, local deformation and dents. The materials shall be supplied with trimmed edges.

**6.0 TEST METHODS:**

Unless otherwise specified the tests shall be conducted in accordance with the relevant methods of BHEL standard AA 085 17 01.



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**7.0 SAMPLING AND ACCEPTANCE:****7.1 Routine and Acceptance Tests:**

Unless otherwise stated, one sheet chosen at random out of every 20 sheets of a supply shall be subjected to routine tests. One sheet of 300 X 300 mm of 10 mm thickness shall be supplied with each consignment.

The arithmetic mean of the test results for an individual test shall meet the requirement of this specification.

The lowest value obtained for any test shall not be less than 90% at the specified value.

**7.2 Type Tests:**

Type tests shall be carried out at the time of first approval and subsequently once in two years and whenever doubt arises, on the quality of the material.

**8.0 PHYSICAL PROPERTIES:**

**8.1 Specific Gravity** :  $1.8 \pm 0.1$

**8.2 Marten's Heat distortion Temperature (Type test)**  
(For thickness 10mm and above) :  $240^{\circ}\text{C}$ , min

**8.3 Water Absorption at  $20^{\circ}\text{C}$  for 24 hours (Type test):**

| Thickness (mm) |                  | Water absorption<br>%, max. |
|----------------|------------------|-----------------------------|
| Above          | upto & including |                             |
| -              | 1                | 0.40                        |
| 1              | 1.5              | 0.30                        |
| 1.5            | 3                | 0.20                        |
| 3              | 10               | 0.15                        |
| 10             | 25               | 0.10                        |
| More than      | 25*              | 0.10                        |

\* Thickness above 25 mm shall be machined to 25 mm keeping one side intact.

**8.4 Texture of Glass Fabric:**

For laminates upto 20 mm thickness a fine woven glass cloth of 0.18mm thick shall be used. For laminates above 20mm thickness a glass cloth of not more than 0.255 mm thick shall be used. This shall be checked by burning the bonding at  $600^{\circ}\text{C}$  for sufficient time.

|             |                                    |                                                                                     |
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**8.5 Heat Shock Test:**

A specimen of size 100x100 of ordered thickness is kept in an oven maintained at  $250 \pm 5^{\circ}\text{C}$  for 15 minutes. The specimen is removed directly to ambient conditions (ie. Room temperature) after this period and observed. The material is considered satisfactory in this test, if no delamination, cracks, splitting, blistering or resin oozing is observed at the end of the test.

**9.0 MECHANICAL PROPERTIES:**

**9.1 Tensile Strength (For sheets 1.5 mm thick and above) (Type test):**  
 $250 \text{ N/mm}^2$  ( $25.5 \text{ kg/mm}^2$ ), min.

**9.2 Cross Breaking Strength (For sheet 1.5 mm thick and above):**

**9.2.1 As received condition:**  $350 \text{ N/mm}^2$  ( $35.6 \text{ kg/mm}^2$ ), min.

**9.2.2** After heating at  $150^{\circ}\text{C}$  for 1 hour and tested at  $150^{\circ}\text{C}$ . The reduction shall not be more than 50% of the value obtained in received condition.

**9.3 Shear strength (for sheets 1.5 mm thick and above) (Type test):**  
 $100 \text{ N/mm}^2$  ( $10.2 \text{ kgf/mm}^2$ ), min.

**9.4 Compression strength proof (For sheets 5 mm thick & above) (Type test):**  
 $400 \text{ N/mm}^2$  ( $40.8 \text{ kgf/mm}^2$ ).

**9.5 Impact strength Charpy - Flatwise (For sheets 2.5 mm & above) (Type test):**

|                     |   |                             |
|---------------------|---|-----------------------------|
| Below 10 mm thick   | : | $75 \text{ kJ/m}^2$ , min.  |
| 10 mm thick & above | : | $150 \text{ kJ/m}^2$ , min. |

**9.6 Splitting load, Edgewise (For sheets 10 mm thick and above):** 2.94 kN (300 kg), min.

**9.7 Punching (For sheets below 2.5 mm) (Type test):**

When the sheet under test is pierced in a single operation with a pattern shown in IS: 1998. There shall not be excessive lifting or cracking around the holes.

**9.8 Machinability (For sheets 3.0mm and above) (Type test):**

The sheet shall be capable of being sawn, milled, drilled and tapped with a M3.5 tap and shall be capable of being shaped in a shaping machine without showing any sign of cracking or chipping.

**10.0 ELECTRICAL PROPERTIES:**

**10.1 Insulation Resistance after 24 hours immersion in water at  $27^{\circ}\text{C}$  (Type test):**  
 $10^4$  Megohms, min.

|                                                                                   |                                           |             |
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**10.2 Electric Strength - Proof in oil at 90<sup>0</sup>C:**

**10.2.1 Flatwise:** Thickness upto & including 5mm : 14 kV/mm  
above 5mm\* : 12 kV/mm

**10.2.2 Edgewise (For 5 mm and above)** : 40 kV

\* Thickness above 5mm shall be machined down to 5 mm keeping one surface intact.

**10.3 Dissipation Factor (Tan delta) at 50 Hz (Type test)** : 0.02, max.

**10.4 Comparative Tracking Index (Type test)** : 250, min.

**11.0 TEST CERTIFICATES:**

Unless otherwise specified, three copies of test certificates shall be supplied alongwith each Consignment.

In addition, the supplier shall ensure to enclose one copy of the test certificate along with their despatch documents to facilitate quick clearance of the material.

The test certificate shall bear the following information:

AA 22415 (Rev.No 02): Epoxy Laminated Glass Fabric Base Sheet.  
BHEL Order No.  
Supplier's Reference:  
Batch/Lot No.  
Test values obtained/Certificate for compliance for clauses 8.0 to 10.0 for all routine tests.

**12.0 PACKING AND MARKING:**

Identification slips shall be pasted suitably on all four corners of each board giving the size of the board and manufacturer's code number/grade. The boards shall be suitably packed in wooden case lined with water proof paper from inside. Each sheet should be separate from other sheet by a thick paper or card-board.

Each package shall be marked with the following information:

AA 22415: Epoxy Laminated Glass Fabric Base Sheet.  
BHEL order No.  
Manufacturer's / Supplier's Name  
Batch/Lot No.  
Thickness, Width and Length.  
No. of sheets:  
Net weight and Gross weight:  
Test Certificate No.

**13.0 REFERRED STANDARDS (Latest Publications Including Amendments) :**

1) AA 085 17 01                      2) IS;1998                      3) NEMA - L1-1



## CORPORATE PURCHASING SPECIFICATION

AA 224 21

Rev. No. 03

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## FIBRE GLASS EPOXY MOULDINGS

**1.0 GENERAL:**

This specification governs the quality requirements of Glass Fibre Reinforced High Pressure and High Temperature Epoxy Mouldings.

The epoxy mouldings shall have a very good resistance to oil, petrol and acids and the water extract of the material shall be neutral. The material shall have a temperature index of at least 155.

**2.0 APPLICATION:**

Used as lead insulation of a bar type windings (caps) etc., for Hydro - generators.

**3.0 COMPLIANCE WITH NATIONAL STANDARDS:**

There is no Indian standard covering this material.

**4.0 DIMENSIONS AND TOLERANCES:**

Shall be as stated on the order or the drawing accompanying BHEL order.

**5.0 COMPOSITION:****5.1 Glass Chopped Strand Mat:**

The epoxy mouldings shall be based on chopped strand glass fibre type E-silane finished and treated with epoxy resin using hardener, additives like curing agents, lubricants, plasticizers etc., added in suitable proportions keeping in view the required properties and moulding conditions. However these additives should not have any detrimental effect on the properties and performance of mouldings.

Glass fibre shall be thoroughly dried before use to remove moisture.

**5.2 Resin :**

Bisphenol A based liquid epoxy resin having epoxy equivalent of 180 to 200, with appropriate hardener for temperature index 155.

or

Novalak epoxy resin of low molecular weight having epoxy equivalent of 175 to 200, with appropriate hardener for temperature index 155.

**Revisions :**

Cl: 32.4.45 of MOM of MRC-E

**APPROVED :**

INTERPLANT MATERIAL  
RATIONALISATION COMMITTEE-MRC ( E )

Rev. No. 03

Amd.No.

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Prepared

Issued

Dt. of 1st Issue

Dt:15.01.2003

Dt :

Year :

BHOPAL

Corp. R&amp;D

Feb, 1980

|             |                                    |                                                                                     |
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**5.3 Diluents and Viscosity Reducers:**  
Not to be used.

**6.0 MOULDING CONDITIONS:**  
Moulding temperature :  $155 \pm 5^{\circ}\text{C}$   
Specified mould pressure :  $3.0 \pm 0.5 \text{ N/mm}^2$   
Moulding time : 15 minutes, approx.  
Post curing of components/sheets : 6 to 8 hours at  $140^{\circ}$  to  $150^{\circ}\text{C}$   
**Note:** However, supplier may furnish recommended moulding schedule.

**7.0 FINISH:**  
Shall be pure, smooth, compact, bright surface and shall be free from cracks, blisters, gas pockets, foreign inclusions etc., and with bond uniformly distributed.

**8.0 TEST SAMPLES:**

**8.1 Tests On Moulded Sheets:**  
Three moulded sheets of size  $3 \pm 0.25 \times 300 \times 300 \text{ mm}$  and one sheet of  $10 \pm 0.5 \text{ mm}$  thick and size  $300 \times 300$  prepared from the same batch shall be supplied for testing and approval purposes.

**8.2 Tests On Components:**  
Number of test samples and tests to be conducted shall be as mutually agreed upon between BHEL and supplier.

**9.0 PROPERTIES:**  
Unless otherwise specified, the tests shall be conducted in accordance with the relevant methods of BHEL standard AA 085 17 01.

**9.1 Physical:**

**9.1.1 Specific Gravity** :  $1.8 \pm 0.1$

**9.1.2 Water absorption** : 0.2%, max.

**9.1.3 Bond Content** :  $40 \pm 4\%$   
Shall be determined by burning the bond at  $600^{\circ}\text{C}$  for sufficient time.

**9.1.4 Marten's Heat Distortion Temperature:**  
 $155^{\circ}\text{C}$  minimum.

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## Date: 17.12.24

| Cl. No. | Description                                                                                                                  | Vendor to comment       |                                                             |
|---------|------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------|
|         |                                                                                                                              | Complied / Not complied | Supporting relevant document to be submitted                |
| 1       | <b>Fiber Glass based Insulating items shall as per BHEL drawing No. &amp; Specification mentioned in BHEL tender Enquiry</b> | Yes/No                  | Deviation not accepted                                      |
| 2.      | Manufacturing / supply experience in preceding 5 years (from tender opening date) for same or similar item* is required.     | Yes/No                  | Unpriced PO copies, corresponding Challan/Invoice required. |
| 3.      | Vendor should be Manufacturer for tendered item not a trader.                                                                | Yes/No                  | -                                                           |

**3.** \* Same similar item to be Fiber Glass based molding if tendered item is molding based item and Fiber Glass sheet if tendered item is sheet based item as mentioned in respective drawing and specification with the tender Enquiry.

**4.** Compliance of all the points in above PQR is mandatory. In absence of compliance of above, vendor's offer is liable to be rejected.

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Shishu Pal  
Sr.Mgr./TME