

**BHARAT HEAVY ELECTRICALS LIMITED**  
**MM / RM / PURCHASE / C&F**  
**BHEL / TRICHY-620 014.**

**ANNEXURE-A Rev 01**  
**ENQ.No.1402000027**

**Dt.29-09-2020**

**Enquiry Terms & Conditions for Supply of Hemispherical Dished Ends**

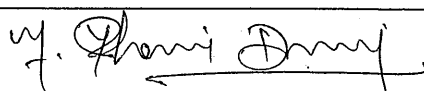
**Note:** This Annexure has to be mandatorily filled & signed by the manufacturer (or) mill and submitted along with Technical bid.

**Any deviation to the below mentioned terms shall be stated specifically in the comments column for each term and also in case of acceptance to our terms, it will be construed that the whole term is understood and agreed in totality without any deviation. (If otherwise mentioned).**

| <b>Sl No</b> | <b>BHEL Requirements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Supplier Comments</b> |
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| <b>01</b>    | <b><u>Material specification:</u></b><br>Supply Hemispherical Dished Ends shall be made strictly as per Specifications, Drawings and TDC as mentioned in the enquiry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |
| <b>02</b>    | <b><u>Specification, Size &amp; Quantity:</u></b> <ol style="list-style-type: none"> <li>All the Hemispherical Dished Ends are to be supplied fully meeting the applicable TDC 432/05, Drawings. If there is any deviation, the same should be mentioned clearly in the offer itself.</li> <li>Size shall be as per BHEL drawings and tolerance on ID &amp; OD shall be maintained throughout the surface as per Drawing.</li> <li>TC in FORM III I, works TC, Raw Material TC, UT report, LPI report and other test certificates as called in TDC 432/05 shall be sent along with supply.</li> <li>Confirmation for Pre-Qualification Requirements (PQR) along with all necessary documents shall be submitted.</li> <li>Before start of production the manufacturer shall submit a Manufacturing and Inspection Plan (MIP) to BHEL product QA for approval (Being a New Supplier).</li> <li>Supply of Hemispherical Dished Ends shall be as per latest IBR amendment dt.15.04.15.</li> <li>Inspection by authorized inspection agency as listed in the annexure enclosed.</li> <li>Ends shall be protected with suitable End covers.</li> <li>Quantity shall be as given in enquiry.</li> </ol> |                          |
| <b>03</b>    | <b><u>Offer Submission:</u></b> <ul style="list-style-type: none"> <li>➤ Offer is to be submitted in <b>TWO part bids system</b> (Technical bid + Price bid) in the E-Procurement portal. Scan copy of the filled Annexure-A, Tender documents etc., shall be uploaded in the EPS portal.</li> <li>➤ The offer is to be submitted within <b>2.00 P.M</b> on or before the due date.</li> <li>➤ After the scrutiny of technical bids, price bids of only techno-commercially qualified offer shall be opened with prior intimation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
| <b>04</b>    | <b><u>Authorization for participation in EPS portal through DSC:</u></b> <ol style="list-style-type: none"> <li><b><u>E-Tender Participation requirements</u></b><br/>Either Principal or authorized agent shall register their Digital Signature Certificate (DSC) (Class 3- SHA2-2048 BIT- SIGNING &amp; ENCRYPTION). Suppliers are advised to go through the FAQ available in the web portal (<a href="http://www.bhel.abcpurchase.com">www.bhel.abcpurchase.com</a>). DSC shall be registered for the authorized person and all transaction done using that DSC against our tenders shall be taken as valid communication and shall be binding on principal/agent and is valid legally.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |
| <b>05</b>    | <b><u>Validity:</u></b><br>The offers shall be kept open for acceptance for 90 days from the date of Tender opening. Once the tenders are submitted, rates cannot be changed on any grounds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |

*Handwritten Signature*

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| 06 | <p><b><u>Delivery:</u></b><br/>The offer shall clearly indicate delivery period in <b>fixed number of weeks/Months</b> from the date of Purchase Order.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 07 | <p><b><u>Goods and Service Tax (GST)</u></b></p> <p><b><u>Indigenous suppliers:</u></b></p> <ol style="list-style-type: none"> <li>1. Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST.</li> <li>2. Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) &amp; Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST &amp; UTGST) separately, HSN/ SAC Code, Place of Supply etc.</li> <li>3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).</li> <li>4. Invoices will be processed only upon completion of statutory requirement and further subject to following: <ol style="list-style-type: none"> <li>a. Vendor declaring such invoice in Form GST ANX-1</li> <li>b. Receipt of Goods or Services and Tax invoice by BHEL</li> </ol> </li> <li>5. As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small &amp; Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).</li> <li>6. In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.</li> <li>7. In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor</li> <li>8. In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.</li> <li>9. Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.</li> <li>10. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.</li> <li>11. GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.</li> </ol> |  |
| 08 | <p><b><u>Terms of Delivery:</u></b></p> <p><b><u>A. INDIGENOUS:</u></b></p> <ol style="list-style-type: none"> <li>a) Bidders should submit their offer for FOR Destination -BHEL Stores, Trichy. The quote should be inclusive of all charges, including testing, packing &amp; forwarding, inspection, Insurance etc. Ex-Works and other terms of delivery will not be considered.</li> <li>b) The soft copies of the Invoice, LR copy &amp; Test certificates shall be forwarded to BHEL immediately after dispatch.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |



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| 09 | <p><b><u>Payment terms:</u></b><br/><b><u>Indigenous:</u></b></p> <p>BHEL Payment term is 100% direct EFT payment after 60 days from the date of receipt and acceptance of materials.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 10 | <p><b><u>Liquidated Damage:</u></b></p> <ol style="list-style-type: none"> <li>1. Penalty will be levied @ 0.5% of the undelivered portion per week of delay or part thereof subject to a maximum of 10% of the total order value.</li> <li>2. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</li> <li>3. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.</li> <li>4. INDIGENOUS: For "FOR Delivery terms", Lorry way bill date will be taken for LD calculation.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 11 | <p><b><u>Risk Purchase clause:</u></b></p> <p>BHEL at its option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute thereof. The supplier shall be liable for any loss which BHEL may sustain by reason of such risk purchases in addition to LD at the maximum rate mentioned in the LD clause above. Confirm your acceptance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 11 | <p><b><u>Warranty / Guarantee:</u></b></p> <p>Supplier to accept guarantee/warranty of. "18 months from dispatch or 12 months from commissioning, whichever is earlier". Any deviation to this may lead to rejection of the offer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| 13 | <p><b><u>Non-Disclosure Agreement(NDA):</u></b></p> <p>The bidders shall enter into the Non-disclosure agreement totally voluntarily, with full knowledge of its meaning and without duress. (Format attached).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 14 | <p><b><u>Patent Right:</u></b></p> <p>The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods &amp; services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 15 | <p><b><u>Evaluation Criteria:</u></b></p> <p>The offers of both import vendors and indigenous vendors will be evaluated on total landed cost to BHEL, Trichy. The evaluation details with respect to the import &amp; indigenous vendors is detailed below:</p> <p><b>I) <u>Indigenous Vendors:</u></b></p> <p><b>Total Landed cost = FOR Rate in INR (A) + Applicable Taxes (B) + Loading for payment term &amp; LD (C) – Applicable input tax credit (D)</b></p> <ol style="list-style-type: none"> <li>A. Indigenous vendors submit offers on Free on Road (FOR), Trichy in INR.</li> <li>B. (SGST, CGST, UGST &amp; IGST) on (BASE PRICE+GST) and any other charges quoted by indigenous vendors will be added to the base price.</li> <li>C. Loading for payment terms &amp; non-acceptance of Liquidated Damages (LD) will be added to the FOR value for arriving the landed rate.</li> <li>D. However, input credit is availed for GST taxes, hence the same is excluded for arriving at the landed cost.</li> </ol> <p>Note: "In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L1 bidders. In case more than one bidder happens to occupy the L1 status even after soliciting discounts, the L1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L1 bidders or their representatives. Ranking will be done accordingly. BHEL decision in such situations shall be final and binding".</p> |  |

*Handwritten signature: y. Ghani Dmy*

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| 16 | <p><b><u>General condition:</u></b></p> <ol style="list-style-type: none"> <li>In addition to TCs in relevant IBR forms corresponding mill TCs should also be provided along with dispatch of Hemispherical Dished Ends. Two sets of original and one copy of all such TCs are to be provided to BHEL, Trichy.</li> <li>Material is to be inspected by third party inspection agency as approved by IBR and test certificate are to be countersigned by respective Inspection agency in case the Mill is not approved by IBR.</li> <li>We require the shipment of the Hemispherical Dished Ends to be as per the dates mentioned against the individual items in the enquiry.</li> <li>No revision of prices will be entertained after the tenders are opened.</li> <li>For the evaluation purposes, exchange rate (TT selling rate of SBI) as on schedule date of tender opening (Part I, i.e technical bid, in case of two part bid) shall be considered.</li> <li>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</li> <li>Lowest price received against BHEL tenders need not be the technically acceptable one and in that case, BHEL reserves the right not to consider the same.</li> <li>BHEL reserves the right to negotiate L1 rate or re-float the tender opened if L1 price is not the lowest acceptable price to them inter-alia other reasons.</li> <li>In the event of our customer order covering this tender being cancelled / placed on hold / otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender / your purchase order at any stage of execution.</li> <li>Offer will be evaluated based on Landed cost to BHEL- Trichy on item basis.</li> <li>No payment will be made for the excess quantity.</li> <li>Offer should be submitted only as per the Unit of Measurement (UOM) specified in the enquiry.</li> <li>The offers of the bidders who are on the banned list as also the offer of bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on the BHEL website - <a href="http://www.bhel.com">www.bhel.com</a>.</li> <li>Documents not signed and stamped by the authorized signatory of the bidder shall not be accepted and considered for registration / evaluation of the bid etc.</li> <li>Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order, shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped as mentioned above.</li> <li>The bidder shall submit his response through bid submission to the tender on e-procurement platform at <a href="http://bhel.abcpurchase.com">http://bhel.abcpurchase.com</a>. The bidder would be required to register on the e-procurement market place <a href="https://bhel.abcpurchase.com">https://bhel.abcpurchase.com</a> and submit their bids online. SEALED COVER BIDS / E-MAILS / FAX / MANUAL OFFERS WILL NOT BE ACCEPTED.</li> </ol> |  |
| 17 | <p><b><u>Fraud Prevention Policy</u></b></p> <p>"The bidder along with its associate/collaborators/sub-contractors /consultants/service providers shall strictly adhere to BHEL Fraud prevention policy displayed on BHEL website <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL Management about fraud or suspected fraud as soon as it comes to their notice."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 18 | <p><b><u>Cartel Formation:</u></b></p> <p>All the firms should desist from forming cartel as the practice is prohibited under Section 3(3) (a) &amp; (d) of the competition Act 2002. If any such instance is observed during this tender will attract disciplinary action as per BHEL policies.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |

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| 19 | <p><b><u>Resolution of Disputes:</u></b></p> <p>a. If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.</p> <p>b. If the parties fail to resolve their dispute or difference by such mutual consultation within 30 days of its occurrence, then, unless otherwise provided in the contract, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer in BHEL Trichy, appointed to be the arbitrator by the General Manager/MM BHEL Trichy. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)</p> <p>c. Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., BHEL Trichy.</p> <p>d. Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., Trichy, India.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 20 | <p><b><u>In the event of Force Majeure:</u></b></p> <p>a. Notwithstanding the provisions contained in other clauses, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure. For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, freight embargoes and Acts of GOD.</p> <p>b. If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty-one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.</p> <p>c. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.</p> <p>d. In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.</p> |  |
| 21 | <p><b><u>Execution of the order:</u></b></p> <p>a. BHEL will have the option to pre-inspect the materials at Supplier's works by BHEL's own inspector or by third party agency appointed by BHEL or BHEL's end customer/s. The mere act of the pre-dispatch inspection (PDI) does not absolve the Supplier from giving the specifications as agreed upon in the Purchase Order.</p> <p>b. In the case of overseas suppliers Inspection call for carrying out the inspection shall be given 30 days before the scheduled contract delivery date. The Inspection date/s given by the Supplier shall be on firm basis. For local Suppliers the Notice period of Inspection shall be 10 working days</p> <p>In the event of any short supply, it shall be the responsibility of the supplier to deliver such short supplied/missing items on Free-of-Cost basis at BHEL stores, including customs clearances at Indian Ports in the case of foreign supplier.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 22 | <p><b><u>Special Provisions for Micro and Small Enterprises (MSE) bidders registered as per MSME act:</u></b></p> <p>(Subject to participating MSE vendors should meet the tender requirements of BHEL)</p> <p>➤ 25% of the tendered quantity is earmarked for MSE suppliers in this tender.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |

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|                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>➤ Out of the 25% tendered quantity reserved for MSE suppliers, 6.25% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs and 3% shall be earmarked for procurement from MSE owned by women.</li> <li>➤ In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE vendor within the "L1+15% price band", the supply shall be shared proportionately.</li> <li>➤ MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either valid EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two-part bid) or valid NSIC certificate or UAM certificate along with attested copy of a CA certificate applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. Documents should be notarized or attested by a Gazetted officer. However, credentials of all MSE suppliers will be verified before considering the intended benefits for MSE suppliers at the time of tender evaluation. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.</li> <li>➤ In case of any change in the MSE status of the bidder, it shall be the responsibility of the bidder to notify the change as a part of the bid document. If at a later date it comes to the knowledge of BHEL, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE, then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the bidder as per the procurement policy of BHEL.</li> <li>➤ In case after the bid opening, it is seen that no MSE has become L1, then depending on the nature of the item, if it is not possible to split the tendered items / quantities on account of reasons like customer contract requirements of supplying one make for a given project or technical reasons like tendered items being a system etc., then BHEL would not counter offer the L1 prices even though there may be MSE bidders within the L1+15% band.</li> <li>➤ If the L1 vendor happens to be a MSE vendor against any item code, then 100% of the qty (for the respective item code) shall be proposed to order on the L1 (MSE) vendor, even though there may be other MSE vendors within the "L1+15%" price band.</li> <li>➤ <b>Payment for MSE Indigenous vendors will be as per MSMED act, 2006</b></li> </ul> |            |               |               |                  |                                |             |  |
| 23                                                                                                                                                                                                                              | <p><b><u>Preference to Make in India:</u></b></p> <ul style="list-style-type: none"> <li>➤ For this procurement, the local content to categorize a supplier as a class I local supplier/class II local supplier /Non-local supplier and purchase preference to class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent Orders issued by the respective Nodal Ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of part II bids against this NIT.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |               |               |                  |                                |             |  |
| 24                                                                                                                                                                                                                              | <p><b><u>Enclosures:</u></b></p> <table border="0"> <tr> <td>a) Enquiry</td> <td>d) NDA Format</td> </tr> <tr> <td>b) TDC 432/05</td> <td>e) IBR Amendment</td> </tr> <tr> <td>c) Inspection Authorities list</td> <td>f) Drawings</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | a) Enquiry | d) NDA Format | b) TDC 432/05 | e) IBR Amendment | c) Inspection Authorities list | f) Drawings |  |
| a) Enquiry                                                                                                                                                                                                                      | d) NDA Format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |               |               |                  |                                |             |  |
| b) TDC 432/05                                                                                                                                                                                                                   | e) IBR Amendment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |               |               |                  |                                |             |  |
| c) Inspection Authorities list                                                                                                                                                                                                  | f) Drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |               |               |                  |                                |             |  |
| <p><br/> <b>M. THAMBIDURAI</b><br/> Dy. Engineer<br/> Purchase / MM / RM / C&amp;F<br/> BHEL, TRICHY - 620 014,<br/> (On behalf of BHEL)</p> | <p><b><u>SIGNED BY MANUFACTURER / MILL</u></b></p> <p>Name of Mill:<br/> Designation / Department:<br/> Seal &amp; Signature</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |               |               |                  |                                |             |  |

**BHARAT HEAVY ELECTRICALS LIMITED, TRICHY-14  
MATERIALS MANAGEMENT**

**PQR: C&F/CFDAS: Rev.00 – SAGARDIGHI**

Date: 01.10.2020

**Pre-Qualification requirements (PQR) for the procurement of Grade 12 Dished Ends through Open Tender**

**(as per TDC: 0:432/05)**

**A) Organizational Capability:**

1. Manufacturers having Dished Ends manufacturing facilities are only eligible to participate. Offer from traders, fabricators and stockists are not acceptable and will not be considered for evaluation. Vendor to indicate the nature of the firm. Product catalogue shall be submitted.
2. Suppliers shall submit facility report for Dished Ends manufacturing. Suppliers without basic manufacturing facilities in-house, shall not be considered for evaluation. In house facilities for Heat treatment & Non-Destructive Testing are mandatory requirements for consideration of the offer.
3. If the supplier is not having steel making facility, then source of raw material for the manufacturing shall be from IBR approved well known steel maker or certified by IBR approved inspecting authority (Form-IV to be attached). The supplier shall confirm that the raw material test certificate/s will be furnished along with product test certificate/s.
4. Chemical, Mechanical testing shall be done in house or at Labs certified as per ISO 17025 or Government approved labs.
5. Suppliers shall submit a valid ISO 9001 certificate or Quality management system certificate or Written down procedure.
6. BHEL/End customer reserve the right to inspect the item ordered at any stage at vendor's works and if found not meeting the stipulated conditions, material is liable for rejection.
7. BHEL/End customer reserves the right to inspect the sample at vendor's works for giving clearance before bulk production.
8. BHEL reserves the right to visit supplier's works to audit and inspect to ensure the capability for technical evaluation

**B) Technical Competence:**

1. Point by point confirmation to the TDC requirements is mandatory for consideration of offer and signed TDC shall be submitted.
2. Suppliers shall submit manufacturing process flow chart (Raw material to finished product) & Manufacturing Quality Plan (MQP) to meet the TDC requirements along with technical bid.

**BHARAT HEAVY ELECTRICALS LIMITED, TRICHY-14**  
**MATERIALS MANAGEMENT**

**PQR: C&F/CFDAS: Rev.00 – SAGARDIGHI**

Date: 01.10.2020

3. Suppliers shall submit the experienced manpower details specific to Manufacturing, Quality and NDE requirements.

**C) Past Experience/ Performance:**

1. Suppliers shall indicate their annual installed capacity for the tendered specifications & it shall be more than the tendered quantity.
2. Suppliers shall have supplied Dished Ends in the tendered specification. Details of supplies made in recent past detailing the quantity, Specification, size & customer details, year wise along with the unpriced PO copies, proof of supply (such as invoice, bill of lading copies and test certificates) covering minimum and maximum sizes (Alloy steel either in Gr 91 / Gr 22 / Gr 12) meeting the tendered size requirements shall be submitted.

**D) Financial Soundness:**

1. Indigenous suppliers shall submit Audited copies of annual reports (Balance Sheets), Profit & Loss statement for last four years (or from date of incorporation whichever is less). Proprietary and partnership firms shall submit IT returns for last four years (or from date of incorporation whichever is less).

**Necessary supporting documents shall be submitted for meeting each of the above Pre-Qualification Criteria for evaluation of the offers.**

**BHEL reserves the right to consider/Not-consider the offers based on the evaluation of documents submitted for the above Pre-Qualification Criteria. BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.**

*Prakash*  
01/10/20  
**Prakash Tantuwai**  
DM/MM/RM

**PRAKASH TANTUWAY**  
Deputy Manager  
Planning / MM / C & F  
BHEL, TRICHY - 620 014

*Technically reviewed*  
*Shyamaladevi*  
01/10/2020  
**S Shyamaladevi**  
DM/QA

**SHYAMALADEVI .S**  
Deputy Manager  
Quality Assurance  
BHEL, TRICHY - 620 014



**Product: Dished Ends for Connecting & Mixing Spheres (for Supercritical Boilers)**

**Revision record:**

Rev 00 14/03/11: Fresh issue

Rev 01 03/04/11: Cl 1: CS grade modified in line with drawing, TDC for Alloy steel starting material clarified, Cl 2, 3, 4, 5: the term 'plates' modified by 'coupon/ plates', Cl 5: High temperature test values modified in line with ASME Sec II 2011a Addenda, Cl 10: Certification modified in line with SA234 Cl 17.

Rev 02: 03/04/13: Date of revision corrected – typographical error.

Rev 03: 01/12/14 – Cl 1 – Raw material TDC numbers removed and requirements added. Cl 5 – High temperature tensile test for AS modified.

Rev: 04 – Dt: 10/10/2017 - Requirements of forgings (CS & AS) added in Cl 1, 2, 4; Cl 3 & 4 modified; Cl 5 revised to add creep testing requirements for Alloy Steel as per IBR; Cl 6 modified to include UT on finished dished ends; Cl 10 modified suitably.

*Rev 05: Dt: 21/11/2017 - Cl. 5(d), Cl.10.b (10)-creep requirements modified*

**1. MATERIAL SPECIFICATIONS:**

**All the codes, standards, specifications, drawings & procedures, etc., referred in this TDC shall be of latest revision as on the date of Enquiry/Purchase Order, whichever is earlier, unless specified otherwise.**

|                         |   |                                                                  |
|-------------------------|---|------------------------------------------------------------------|
| Carbon Steel (CS)       | : | SA 105, SA 299                                                   |
| Alloy Steel (AS)        | : | SA182 F12 Cl 1, SA 234 WP12 Cl 1                                 |
| Additional Requirements | : | As listed below (Supplementary to above material specifications) |
| Size and Quantity       | : | As per Purchase order & Drawing.                                 |

**2. REQUIREMENTS FOR RAW MATERIALS, CHEMICAL COMPOSITION AND PROCESS:**

- a) SA 105 & SA299 (CS), SA182 F12 Cl 1 & SA 387 Gr 12 Cl 2 (AS) - All plates/forgings shall be of Fully Killed steel. Plates/forgings shall be of Vacuum Degassed (S1 of SA20).
- b) **For Plates:** Final rolling shall be lengthwise. Plates may be made from ingots or strand cast slabs. Reduction ratio in thickness from slab/ingot to plate shall be at least 3:1.

Sufficient 'Top of Ingot' to be discarded to ensure plates are free of segregation. After top discard the increase in Carbon content at the top-mid, width-mid thickness of the plate shall not exceed 20% of the reported ladle analysis value. This value shall be reported in Test Certificate.

**Process:** Hot Forming with Dies and tools clean of loose scale and sheet particles from Dies. The process details and drawing shall be submitted to BHEL for approval.

- c) **Forgings:** Hot working to ensure uniformity of structure & strength with reduction ratio in area 4:1 min from ingot to final forging, close to final size & shape. Flow lines to be parallel to axis of openings.

Forged Items ordered to this TDC shall be forged to the nearest shape before machining to final dimensions as per respective drawing.

- d) **Chemical Analysis:**  
**For Plates:** Ladle analysis: 1 sample per cast, Product analysis: min.1 sample per plate as rolled.  
**For Forgings:** Product analysis - One per heat  
For CS - Max. Carbon: 0.28%, Max. Al: 0.05%, Carbon Equivalent for Carbon Steel: As per S20 of SA20.

- e) **Heat Treatment:**  
**CS:** Normalized, **AS:** Normalized and tempered (min 650 Deg C).

- f) **NDE:**  
**For plates,** UT shall be as per SA 578 with acceptance criterion Level B.  
**For forgings,** UT shall be as per ASTM A388 for dia/wall thickness > 40 mm with Acceptance: ASME Sec VIII Div. 2 Cl.3.3.4.

- g) Raw material steel to be inspected at Mill & applicable IBR form (Form IV for plates, Form III-G for forgings) shall be submitted.

|                                                                                             |                                                                                                                               |                                                                                                     |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|             | <b>BHEL – Tiruchirappalli - 620014, India.</b><br><b>Quality Assurance Department</b><br><b>TECHNICAL DELIVERY CONDITIONS</b> | DOC No: <b>TDC:0:432</b> Rev: <b>05</b><br>Effective Date: <b>21/11/2017</b><br>Page: <b>2 of 3</b> |
| <b>Product: Dished Ends for Connecting &amp; Mixing Spheres (for Supercritical Boilers)</b> |                                                                                                                               |                                                                                                     |

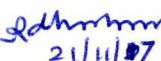
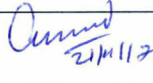
- h) Test coupon/plate: For each Product: size: 300mm X 300mm. (or, use extra portion of skirt). The test coupon/plate to accompany the product during all stages of heating and heat treatments of the product.
3. **POST FORMING HEAT TREATMENT (HT):** along with test coupon/plates after hot forming  
Carbon Steel (CS): Normalize at 870-900°C, 0.5 hr. /inch, Air cool.  
Alloy Steel (AS): Normalize at 920-950°C, 0.5 hr. /inch, Air cool and tempering at 650-680°C., 1hr./inch.thk, Air Cool.
4. **SIMULATION HEAT TREATMENT for test coupons/plates/forgings:**  
**For Carbon Steel:** Stress Relieving at 615±10°C, 3 hr./inch t, furnace cool to 400°C.  
**For Alloy Steel:** Stress Relieving at 665±15°C, 3 hr./inch t, furnace cool to 400°C.  
**Rate of heating /Rate of cooling:** < 335 / t °C /hr (t in inch), but need not be slower than 55°C /hr.
5. **MECHANICAL TESTS:** on Simulated Heat Treated test coupons/plates/forgings  
Extent of test: One Per size/ per heat/ per HT batch.  
Orientation of Specimen: Transverse to rolling direction for plates.  
a) Tensile test: As per the specification  
b) Hardness(max.): 197 HBW  
c) High temperature tensile test as per S7 of SA 20 – Carbon Steel: Yield strength at 400°C: 19.10 Kg/Sq.mm (Min)  
Alloy Steel: Yield strength at 500°C: 15.0 Kg/Sq.mm (Min)  
d) *Creep testing shall be carried out as per SIP:RM:01 (latest revision) whenever indicated in the Enquiry/Purchase Order/Engineering Drawing.*
6. **NON DESTRUCTIVE TEST on finished Dished Ends:**  
a) **MPI:** Both inside and outside surface of the dished ends as per Appendix - 6 of ASME Sec VIII Div I.  
b) **UT: Plates** – As per SA578 with acceptance Level B; **Forgings:** As per ASTM A388 with acceptance ASME Sec VIII Div 2 Cl 3.3.4.
7. **DIMENSIONAL TEST:**  
a) Dimensions and Tolerances: As per the Drawing indicated in the Purchase Order.  
b) **Circularity:** Difference between the Max. & Min. Inside diameter at skirt portion shall not exceed 1% of nominal diameter.  
c) **Profile Departure:** The inner surface of the dished ends shall not deviate outwards from the specified shape by more than 1.25% of the nominal inside Diameter and inwards by 5/8 % of Nominal inside Diameter specified. This shall be measured using a profile gauge having length not less than 1/4<sup>th</sup> of the internal Diameter of the Dished End.
8. **FINISH AND REPAIRS:**  
The products shall be free from injurious defects and shall have a workman like finish. Repairs involving fusion welding is prohibited. Surface defects can be removed by mechanical means and the defective areas shall be merged with adjacent surface. Minimum thickness after merging shall meet the drawing / Specification requirements. Details shall be recorded.
9. **MARKING, PRESERVATION AND PACKING:**  
Details to be stamped with low stress stamps sufficiently away from the knuckle radius on the Outside surface of each product.  
1. Material Specification and grade 2. Melt number 3. Maker's emblem/code 4. Inspecting Authority's seal.  
**Details to be painted on the product:** PO No., "BHEL-Tiruchirappalli", Drawing. No. & Weight. Products to be applied with 1 coat rust preventive & dispatched suitably to avoid damage in transit.
10. **INSPECTION AND CERTIFICATION:**  
a) Products shall be inspected at supplier's works/mill and IBR Form III-I must be countersigned by the Inspecting Authority as indicated below in case the supplier's works/mill is not recognised as a "Well known Forger/Steel maker" under IBR:  
☐ **Imported Items:** Inspecting Authority approved by IBR for the Country of origin.  
☐ **Indigenously Supplied items:** Director of Boilers/Chief Inspector of Boilers/Inspecting Authority approved by IBR, for the respective state in India.  
b) A separate manufacturer test certificate (MTC) in English language with following details, shall accompany each product:

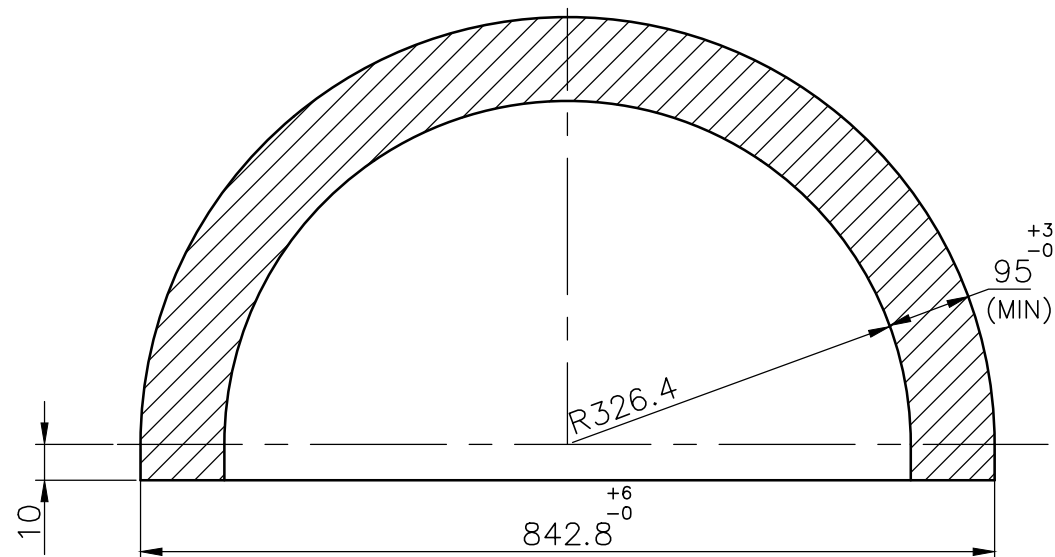
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|             | <b>BHEL – Tiruchirappalli - 620014, India.</b><br><b>Quality Assurance Department</b><br><b>TECHNICAL DELIVERY CONDITIONS</b> | DOC No: <b>TDC:0:432</b> Rev: <b>05</b><br>Effective Date: <b>21/11/2017</b><br>Page: <b>3</b> of <b>3</b> |
| <b>Product: Dished Ends for Connecting &amp; Mixing Spheres (for Supercritical Boilers)</b> |                                                                                                                               |                                                                                                            |

1. Purchase Order No.(BHEL), TDC No & its revision no, Test certificate no & date.
2. Specification, Grade & Class with applicable year of code, Heat Number, Drawing No., Quantity & Size.
3. Copy of the raw material Test Certificate (well known and others in IBR Form IV or III-G).
4. Melting & forming process, Chemistry with incidental elements-Heat wise, Laddle & Product analysis. When the amount of an element is less than 0.02% the analysis for that element may also be reported.
5. Heat treatment details of the material and test coupons.
6. Mechanical test results- Tensile (UTS, YTS (0.2% offset), % elongation, % reduction in area), Bend, Hardness and high temperature tensile test.
7. Details of NDE test results with reference & acceptance standards.
8. Print of the stamp of Inspecting Officer, which is used on the plate.
9. Repair details, if any, Dimensional reports for each product.
10. *Creep test report as per SIP:RM:01 (latest revision) whenever indicated in the Enquiry/Purchase Order/Engineering Drawing.*
11. In the MTC a clause for certificate of compliance shall be added stating that – “The fitting was manufactured, sample tested and inspected in accordance with the specification and was found to meet the requirements.”

#### 11. AUDIT CHECKS AT BHEL :

BHEL reserves the right to reject any item found to be not meeting the requirements during check tests, or during subsequent processing at BHEL.

|                                                                                                 |                                                                                               |                                                                                               |                                                                                                |                                                                                                 |                                                                                                 |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>21/11/2017 | <br>21/11/17 | <br>21/11/17 | <br>21.11.17 | <br>21/11/17 | <br>21/11/17 |
| Venkanna Rupani                                                                                 | G. Panneer Selvam                                                                             | R. Dharmar                                                                                    | N. Kirubakaran                                                                                 | M. Nadanakumar                                                                                  | Amit Roy                                                                                        |
| Sr.Engineer /QA                                                                                 | DGM/QA                                                                                        | AGM/QC                                                                                        | SDGM/PE/FB                                                                                     | AGM/MM                                                                                          | AGM/QA& BE                                                                                      |
| <b>Prepared By</b>                                                                              | <b>Reviewed By</b>                                                                            |                                                                                               |                                                                                                |                                                                                                 | <b>Approved By</b>                                                                              |

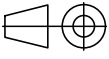


NOTES: –

01. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.  
02. NORMALISING & TEMPERING IS TO BE DONE AFTER HOT FORMING.  
03. AFTER FORMING, NORMALISING & TEMPERING, THE TEST COUPON SHALL BE MECHANICAL TESTED AS PER SPECIFICATION.  
IN ADDITION HOT TENSILE TESTED AT 473°C. THE VALUES SHALL MEET ASME SEC.II–D.  
04. FITTING SPECIFICATION : SA 234 WP12CL1.  
05. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.  
06. THE MAX THICKNESS SHALL NOT EXCEED T–min/0.875 AT ANY POINT ON THE DISHED END.

FITTING MATERIAL CODE : 92 084 947 0000

|                   |                |                         |     |                |         |                |       |      |             |   |
|-------------------|----------------|-------------------------|-----|----------------|---------|----------------|-------|------|-------------|---|
|                   |                | HSEC<br>OD842.8X95(MIN) |     |                |         |                | A     |      | 660.000     |   |
|                   |                |                         |     |                |         | SA234WP12CL1   |       |      |             |   |
| VARIANT<br>NUMBER | ITEM<br>NUMBER | DESCRIPTION             | STD | DRAWING NUMBER | ITEM NO | MATERIAL CODE  | A/C/P | UNIT | UNIT WEIGHT | Q |
|                   |                |                         |     |                | VAR NO  | MATERIAL SPECN |       | DI   | QUANTITY    |   |

|                                                                                                                                                                                              |                                                                                                  |                                |                                                                                                     |              |                                                                                             |  |                                         |                                |      |                |           |                    |
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|                                                                                                                                                                                              | <br>355-055 |                                |                                                                                                     |              | Bharat Heavy Electricals Ltd<br>UNIT: HIGH PRESSURE BOILER PLANT<br>TIRUCHIRAPALLI – 620014 |  |                                         |                                | DRN  | NAME<br>ISMAIL | SIGNATURE | DATE<br>22.09.2014 |
|                                                                                                                                                                                              |                                                                                                  |                                |                                                                                                     |              |                                                                                             |  |                                         |                                | CHD  | R.MURALI       |           | 25.09.2014         |
|                                                                                                                                                                                              |                                                                                                  |                                |                                                                                                     |              |                                                                                             |  |                                         |                                | APPD | S.A.K.         |           | 25.09.2014         |
|                                                                                                                                                                                              | DEPT<br>PP                                                                                       | ALL<br>DIMENSIONS<br>ARE IN MM | PROJECTION<br> | SCALE<br>NTS | WEIGHT (Kg)<br>227.000                                                                      |  | REF TO ASSY / OLD DWG<br>3-07-125-12583 |                                |      |                |           |                    |
|                                                                                                                                                                                              | CODE<br>121                                                                                      |                                |                                                                                                     |              |                                                                                             |  |                                         | DRAWING NO :<br>3-07-125-12986 |      |                |           | REV<br>00          |
| TITLE<br>HEMISPHERICAL END COVER<br>OD842.8X95(MIN)                                                                                                                                          |                                                                                                  |                                |                                                                                                     |              |                                                                                             |  |                                         |                                |      |                |           |                    |



## FORGE SHOP

- 1.00.00 Name of Company, Address
- 2.00.00 Type & No. of Forging Press : Forging hammer  
Capacity - (Tonnes)
- 3.00.00 Max. size of Material that can be handled  
dimensions, weight and type of materials.
- 4.00.00 Production with relevant standards (for last three years)  
Carbon Steel  
Stainless Steel  
Alloy steel  
Inconel -
- 5.00.00 Heating Facilities -
- 5.10.00 Furnace - No. and capacity
- 5.10.10 Type - Oil Fired, Gas Fired, Electric  
heating
- 5.10.20 Dimensions
- 5.10.30 Mode of Temperature control & extent  
of automation.
- 5.10.40 Temperature recording facilities
- 5.20.00 Distance of heating furnace from Forging Press
- 5.30.00 Handling Facilities - Crane/Truck/Manual/ any other  
indicate list of such facility.
- 6.00.00 Availability of in-house Heat Treatment facility Yes/No
- 6.10.00 If yes: Type of heat treatment possible



## FORGE SHOP

- 6.20.00 If no, source of Heat Treatment with relevant details.
- 6.20.10 Annealing -
- 6.20.20 Normalising -
- 6.20.30 Stress Relieving -
- 6.20.40 Quenching: - Water/Oil  
Any other Heat treatment? -
- 6.20.50 Type & No. of Furnace -
- 6.20.60 Dimensions, Type of Temp. Control,  
Temp - Time Recording facilities.
- 7.00.00 Source of Raw Materials -  
  
Indigenous/imported (Indicate source and quantity of  
material procured during last three years)
- 8.00.00 Machining Facilities -  
  
List of machines installed
- 9.00.00 Cutting facilities - Type & No. of Machine
- 10.00.00 Availability of testing facilities Yes/No
- 10.10.00 If no - Indicate source of testing with relevant details
- 10.20.00 If yes :-
- 10.20.10 Chemical Analysis: Method
- 10.20.20 Mech. Testing
- 10.20.21 Hardness testing
- 10.20.22 Metallorgraphy
- 10.20.23 Universal Tensile Testing M/C -  
Ambient Low Temp.
- 10.20.24 Any other tests -
- 10.30.00 Non-destructive
- 10.30.10 Radiography



## FORGE SHOP

- 10.30.20 Ultrasonic Test
- 10.30.30 Dye Penetration
- 10.30.40 MPI
- 10.30.50 Any other NDE
- 11.00.00 Experience with Third Party/Statutory Agency:  
Indicate the agency
- 12.00.00 Source of procurement of Dies & availability for  
Machining of such dies.
- 13.00.00 Consistency in supply:
- 13.10.00 Has the vendor produced items of similar nature in  
past?
- 13.20.00 Has the vendor maintained delivery commitments in  
past?
- 13.30.00 Has there been frequent labor trouble in past?
- 13.40.00 Has there been major upset due to faulty  
material management?
- 13.50.00 Is the system of planning & scheduling resilient  
enough to overcome temporary setbacks & make  
up lost time?
- 13.60.00 Has the vendor got standby arrangement for power?
- 13.70.00 Can the vendor quickly offload the work to other  
reliable sub-vendor?
- 13.80.00 Total order booked till date.
- 14.00.00 Remarks:

PLACE:

SIGNATURE WITH SEAL

DATE:

**INSPECTING AUTHORITIES**

| <b>Sl. No.</b> | <b>Name of Inspecting Authority</b>                                 | <b>Area of Operation</b>             |
|----------------|---------------------------------------------------------------------|--------------------------------------|
| 1.             | Director of Boilers,<br>Andhra Pradesh                              | Andhra Pradesh                       |
| 2.             | Chief Inspector of Boiler,<br>Arunachal Pradesh                     | Arunachal Pradesh                    |
| 3.             | Chief Inspector of Boilers,<br>Assam                                | Assam                                |
| 4.             | Chief Inspector of Boilers,<br>Bihar                                | Bihar                                |
| 5.             | Chief Inspector of Boilers,<br>Chhattisgarh                         | Chhattisgarh                         |
| 6.             | Chief Inspector of Boilers,<br>Daman & Diu and Dadra & Nagar Haveli | Daman & Diu and Dadra & Nagar Haveli |
| 7.             | Chief Inspector of Boilers,<br>Delhi                                | N.C.T.D.                             |
| 8.             | Chief Inspector of Boilers,<br>Goa                                  | Goa                                  |
| 9.             | Director of Boilers,<br>Gujarat                                     | Gujarat                              |
| 10.            | Chief Inspector of Boilers,<br>Haryana                              | Haryana & Chandigarh                 |
| 11.            | Chief Inspector of Boilers,<br>Himachal Pradesh                     | Himachal Pradesh                     |
| 12.            | Chief Inspector of Boilers,<br>Jharkhand                            | Jharkhand                            |
| 13.            | Director of Boilers,<br>Karnataka                                   | Karnataka                            |
| 14.            | Director of Boilers,<br>Kerala                                      | Kerala                               |
| 15.            | Director of Boilers,<br>Madhya Pradesh                              | Madhya Pradesh                       |
| 16.            | Director of Boilers,<br>Maharashtra                                 | Maharashtra                          |
| 17.            | Chief Inspector of Boilers,<br>Meghalaya                            | Meghalaya                            |
| 18.            | Chief Inspector of Boilers,<br>Manipur                              | Manipur                              |

| Sl. No. | Name of Inspecting Authority                                                                                                                                                                       | Area of Operation         |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 19.     | Chief Inspector of Boilers,<br>Mizoram                                                                                                                                                             | Mizoram                   |
| 20.     | Chief Inspector of Boilers,<br>Nagaland                                                                                                                                                            | Nagaland                  |
| 21.     | Director of Boilers,<br>Odisha                                                                                                                                                                     | Odisha                    |
| 22.     | Director of Boilers,<br>Punjab                                                                                                                                                                     | Punjab                    |
| 23.     | Chief Inspector of Boilers,<br>Puducherry                                                                                                                                                          | Puducherry                |
| 24.     | Chief Inspector of Boilers,<br>Rajasthan                                                                                                                                                           | Rajasthan                 |
| 25.     | Director of Boilers,<br>Tamil Nadu                                                                                                                                                                 | Tamil Nadu                |
| 26.     | Director of Boilers,<br>Telangana                                                                                                                                                                  | Telangana                 |
| 27.     | Chief Inspector of Boilers,<br>Tripura                                                                                                                                                             | Tripura                   |
| 28.     | Director of Boilers,<br>Uttar Pradesh                                                                                                                                                              | Uttar Pradesh             |
| 29.     | Chief Inspector of Boilers,<br>Uttarakhand                                                                                                                                                         | Uttarakhand               |
| 30.     | Director of Boilers,<br>West Bengal                                                                                                                                                                | West Bengal               |
| 31.     | Chief Inspector of Boilers,<br>Andaman & Nicobar Islands                                                                                                                                           | Andaman & Nicobar Islands |
| 32.     | M/s Lloyd's Register Asia<br>63-64, Kalpataru Square, 6 <sup>th</sup> Floor,<br>Kondivita Lane, Off. Andheri-Kurla Road<br>Andheri(E),<br>Mumbai-400059                                            | Whole of India            |
| 33.     | Bureau Veritas (India) Private Limited<br>72 Business Park, 8th floor, Marol<br>Industrial Area, Opposite Seepz Gate No.<br>2, MIDC CrossRoad "C",<br>Andheri - (East), Mumbai - 400 093,<br>INDIA | Whole of India            |
| 34.     | M/s ABS Industrial Verification(India) Pvt.<br>Limited<br>6 <sup>th</sup> Floor, Lakhani's Centrium,                                                                                               | Whole of India            |

| Sl. No. | Name of Inspecting Authority                                                                                                                                                       | Area of Operation                                                               |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|         | Sector 15, Plot No. 27,<br>CBD Belapur (E),<br>Navi Mumbai 400 614                                                                                                                 |                                                                                 |
| 35.     | M/s TÜV India Pvt. Limited<br>(TUV Nord Group)<br>801, Raheja Plaza-1,<br>L.B.S. Marg,<br>Ghatkopar(W),<br>Mumbai-400 086                                                          | Whole of India                                                                  |
| 36.     | M/s Intertek India Pvt. Limited<br>E-20, Block-B1, Mohan Co-operative<br>Industrial Estate,<br>Mathura Road,<br>New De lhi-110 044                                                 | Whole of India                                                                  |
| 37.     | M/s TÜV SÜD South Asia Pvt. Ltd.<br>TÜV SÜD House,<br>Off Saki Vihar Road,<br>Saki Naka, Andheri (East),<br>Mumbai-400 072                                                         | Whole of India                                                                  |
| 38.     | M/s Apave Assessments India Pvt. Ltd.<br>A-49, FIEE Complex,<br>Okhla Industrial Area Phase-II,<br>New Delhi-110 020                                                               | Whole of India                                                                  |
| 39.     | M/s HSB International (India) Private<br>Limited,<br>Unit 404, 4 <sup>th</sup> Floor, “Ozone”,<br>Vikram Sarabhai Mills Compound,<br>Sarabhai Road,<br>Vadodara-390 003<br>Gujarat | Whole of India                                                                  |
| 40.     | M/s DNV-GI Business Assurance India Pvt.<br>Ltd., Equinox Business Park,<br>Tower 3, 6 <sup>th</sup> Floor,<br>LBS Marg,<br>Kurla (W), Mumbai-400070                               | Whole of India                                                                  |
| 41.     | M/s IRCLASS Systems and Solutions Pvt.<br>Ltd., 4th floor , 52-A Adi Shankaracharya<br>Marg, Powai, Mumbai-400072                                                                  | Whole of India                                                                  |
| 42.     | M/s ASTRON Certification India Pvt Ltd.,<br>406, A Wing Shiv Chambers, Plot No. 21,<br>Sector 11, CBD Belapur Navi Mumbai-<br>400614                                               | Whole of India                                                                  |
| 43.     | M/s TÜV Nord Systems GmbH Co.KG<br>Langemarckstr 20,<br>D-451141 Essen,<br>GERMANY                                                                                                 | Europe, Brazil, China,<br>Korea, Middle East<br>countries, Thailand &<br>Turkey |
| 44.     | M/s British Engineering Services Limited<br>5, New York Street, Manchester, M1 4JB,<br>United Kingdom                                                                              | Europe                                                                          |

| Sl. No. | Name of Inspecting Authority                                                                                                                                        | Area of Operation                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 45.     | M/s Japan Inspection Company Limited<br>RBM Higasghi Yaesu Bldg. 10F,<br>No. 2-9, I-Chome, hatchobori, Chou-ku<br>Tokyo, 104-0032, Japan                            | All countries in Asia except India                                                                                            |
| 46.     | M/s S.G.S. Korea Company Ltd.<br>Industrial Division, 50, sinsan-ro 29 beon-gil<br>Saha-gu, Busan, Korea (604-838)                                                  | Korea & Japan                                                                                                                 |
| 47.     | M/s Bureau Veritas<br>Le Triangle de l'Arche,<br>8, Cours du Triangle,<br>CS 90096,<br>92937 La Defense Cedex,<br>France                                            | All countries except India                                                                                                    |
| 48.     | M/s Lloyds Register Verification Ltd.<br>71, Fenchurch Street<br>London EC 3M, U.K                                                                                  | All countries except India                                                                                                    |
| 49.     | M/s Velosi certification Bureau Limited<br>Unit 4 Bennet Court,<br>Bennet Road,<br>Reading, Berkshire,<br>RG2 0QX,<br>United Kingdom                                | Europe, China, Malaysia,<br>Middle East countries &<br>USA                                                                    |
| 50.     | M/s TÜV Rheinland AG<br>Am Grauen Stein, D-51105 Koln<br>Germany                                                                                                    | All countries except India                                                                                                    |
| 51.     | M/s OOO<br>"TekhnoLogicheskieEnergosistime"<br>109, Vezelskaya, Belgorod, 308015<br>Russia                                                                          | Russia, Ukraine, USA,<br>Germany, China & Italy                                                                               |
| 52.     | M/s Engineering Bureau Franke<br>International Limited<br>55, Amurskaya St., Dnepropetrovsk<br>49108, Ukraine                                                       | Ukraine, Belarus, Belgium,<br>China, Czech Republic, Iran,<br>Poland, Romania, Russia,<br>South Korea, Turkey &<br>Uzbekistan |
| 53.     | M/s ARISE Boiler Inspection & Insurance<br>Insurance Company Risk Retention Group<br>Grand Bay 1,7000 South Edgerton Road<br>Suite 100, Breeksville<br>OH 44141 USA | USA & Canada                                                                                                                  |
| 54.     | M/s Tata Projects Limited<br>SBG Services,<br>Splendid Tower, 6 <sup>th</sup> Floor,<br>H.No. 1-8-364, 437, 438 & 445, Begumpet<br>Hyderabad-500 003<br>Telangana   | All countries except India                                                                                                    |
| 55.     | M/s TÜV SUD Industrie Service GmbH<br>Westendstr, 199<br>80686 Munich<br>Germany                                                                                    | All countries except India                                                                                                    |

| Sl. No. | Name of Inspecting Authority                                                                                                                                                                            | Area of Operation                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 56.     | M/s TÜV Thüringen e.v.,<br>Service Centre Erfurt,<br>Melchendorfer Str. 64<br>99096 Erfurt, Germany                                                                                                     | Europe & China                                                                                                                |
| 57.     | M/s SGS-CSTC Standards Technical<br>Services Co. Ltd.<br>9 <sup>th</sup> Building No. 69,<br>KangQiao Industrial Park, Block 1159,<br>KangQiao East Road, Pudong District,<br>Shanghai-201 319<br>China | China                                                                                                                         |
| 58.     | M/s Intertek Inspection Services UK<br>Limited<br>5 <sup>th</sup> Floor, 35 Perrymount Road, Haywards<br>Heath,<br>West Sussex, RH16 3BW,<br>United Kingdom                                             | All countries except India                                                                                                    |
| 59.     | M/s ABSG Consulting Inc<br>16855 Northchase Drive<br>Houston, TX 77060<br>United States of America                                                                                                      | All countries except India                                                                                                    |
| 60.     | M/s Hartford Steam Boiler Inspection and<br>Insurance Company,<br>One State Street, P.O. Box 5024,<br>Hartford, CT 06102-5024<br>U.S.A.                                                                 | All countries except India                                                                                                    |
| 61.     | M/s SGS-TÜV Saar GmbH<br>Am TUEV 1, D-66280 Sulzbach<br>Germany                                                                                                                                         | Europe                                                                                                                        |
| 62.     | M/s Korean Register of Shipping<br>36, Myeongji Ocean City 9-ro,<br>Gangseo-gu, Busan,<br>Republic of Korea                                                                                             | All countries in Asia except<br>India                                                                                         |
| 63.     | M/s AIB-Vincotte International sa<br>Jan Olieslagerslaan 35,<br>1800 Vilvoorde,<br>Belgium                                                                                                              | Europe                                                                                                                        |
| 64.     | M/s TUV-Thuringen-PromService,<br>5 <sup>th</sup> Noviy St., B.106,<br>Taganrog, 347943,<br>Russia                                                                                                      | Ukraine, Belarus, Belgium,<br>China, Czech Republic, Iran,<br>Poland, Romania, Russia,<br>South Korea, Turkey &<br>Uzbekistan |

**Note: As per IBR-1950, Regulation 4H(2)(v), an Inspecting Authority may also work as a Competent Authority for in-house certification of welders.**

|                                                                                                    |                                         |  |                               |
|----------------------------------------------------------------------------------------------------|-----------------------------------------|--|-------------------------------|
| <br>BHEL - TRICHY | THIRD PARTY NON-DISCLOSURE<br>AGREEMENT |  | Doc.No. : ISMS-04/TP/011      |
|                                                                                                    |                                         |  | Ver. No: 3.0      Rev. No: 00 |
|                                                                                                    | Date : 27 - 10 - 14                     |  |                               |

## THIRD PARTY NON-DISCLOSURE AGREEMENT

I, \_\_\_\_\_, on behalf of the \_\_\_\_\_ (Name of Company), acknowledge that the information received or generated, directly or indirectly, while working with BHEL, Trichy on contract is confidential and that the nature of the business of the BHEL, Trichy is such that the following conditions are reasonable, and therefore:

I warrant and agree as follows:

I, or any other personnel employed or engaged by our company, agree not to disclose, directly or indirectly, any information related to the BHEL, Trichy Without restricting the generality of the foregoing, it is agreed that we will not disclose such information consisting but not necessarily limited to:

- Technical information: Methods, drawings, processes, formulae, compositions, systems, techniques, inventions, computer programs/data/configuration and research projects.
- Business information: Customer lists, project schedules, pricing data, estimates, financial or marketing data,

On conclusion of contract, I, or any other personnel employed or engaged by our company shall return to BHEL, Trichy all documents and property of BHEL, Trichy, including: drawings, blueprints, reports, manuals, computer programs/data/configuration, and all other materials and all copies thereof relating in any way to BHEL, Trichy 's business, or in any way obtained by me during the course of contract. I further agree that I, or any others employed or engaged by our company shall not retain copies, notes or abstracts of the foregoing.

This obligation of confidence shall continue after the conclusion of the contract also.

I acknowledge that the aforesaid restrictions are necessary and fundamental to the business of the BHEL, Trichy and are reasonable given the nature of the business carried on by the BHEL, Trichy I agree that this agreement shall be governed by and construed in accordance with the laws of country.

I enter into this agreement totally voluntarily, with full knowledge of its meaning, and without duress.

Dated at \_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Name

Company

Signature

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017 & P-45021/2/2017-PP (BE-II) dated 28.05.2018, we hereby certify that we

.....  
(supplier name) are local supplier meeting requirement of minimum local content (50%) defined in as above orders for the material against Enquiry No.

.....  
Details of location at which local value addition will be made is as follows:

.....  
.....  
.....  
We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and Signature of Supplier