

SPECIAL TERMS AND CONDITIONS FOR
(Tender Enquiry No. 1617-119E Dated 22.03.2017 Due date 15.04.2017)
ITEM: Fuel Pipe Coupling Castings
(Tender Processed through E-procurement)

Tender Enquiry No	1617-119E
Enquiry date	22.03.2017
Last time and date of tender submission	12:00 Hrs 15.04.2017
Tender opening time and date	12:30 Hrs 15.04.2017
Quotation Parts	<u>Two-Part Bid</u>
Item Description	<u>Fuel Pipe Coupling Castings</u>
Material Standard	<u>SG Iron</u>
Delivery schedule (In days)	<u>Total 4 months[2 + 2 months]</u>
Validity of offer (In days)	<u>60days</u>
Documents required along with supply of material	<u>Applicable/Not Applicable</u>
1. Test Certificate	<u>Required</u>
2. Compliance Certificate	<u>Required</u>
3. Third Party / BHEL Inspection Report	<u>Required</u>

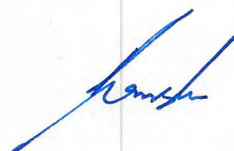
THIS TENDER IS PROCESSED THROUGH E-PROCUREMENT MODE. Online bids in two parts are invited for the supply of "Fuel Pipe Coupling Castings". The relevant documents can be downloaded from <https://bheleps.buyjunction.in> [Go for 'Advanced Search' >> Organization: Trichy, BHEL >> Enquiry No. 1617-119E]

PRE-QUALIFICATION TERMS

P1. Technical

1. Bidders should primarily be engaged in manufacturing and supply of material grade as required by BHEL in Fuel Pipe coupling castings. Vendor has to give undertaking that he is manufacturing this material grade.
2. Suppliers not engaged in manufacturing of castings will not be considered. Vendor has to give any one proof that he is manufacturer e.g copy of ECC (Excise control Code) Number/MSME certificate/VAT Registration number (If applicable), List of machinery etc.
3. Machining Facility can be in-house or outsourced. In case of in-house machining facility – details to be provided. In case of outsourcing of Machining facilities BHEL intends to satisfy itself that party has suitable arrangement for machining. A document for the tie-up/MOU/Purchase order on machining house(s) has to be provided with the details of machining facility available with the attached machining house.

BHEL reserves the right to accept/reject any offer based on evaluation of bidder's capability. For verification of data presented for pre-qualification bid, BHEL may decide to visit the bidder(s) works.



 BHEL GOINDWAL	SPECIAL TERMS AND CONDITIONS FOR (Tender Enquiry No. 1617-119E Dated 22.03.2017 Due date 15.04.2017) ITEM: Fuel Pipe Coupling Castings (Tender Processed through E-procurement)
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P2. Financial

1. Bidder should have average minimum annual turnover of Rs. 25.00 lac of the last 3 (three) years, ending on 31.03.2016. Audited balance sheet and profit & loss account of the company need to be submitted for last 3 (three) financial years, ending on 31.03.2016 in support of this requirement.

In case required audited financial statements have not been submitted for all the three years as indicated above, then the audited statements submitted by the bidders against above 3 (three) years, will be averaged for 3 (three) years.

2. Bidder should submit valid permanent account number (PAN).

P3. Earnest Money Deposit (EMD)

The bidder shall be required to deposit earnest money of Rs. 25,000/- (Rupees Twenty-Five Thousand only) by any of the following modes: -

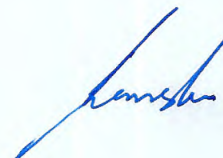
- a. Demand Draft/Pay Order only payable at Punjab National Bank/State Bank of India/HDFC Bank/Union Bank of India/Allahabad Bank/Punjab & Sind Bank at Goindwal Sahib, Distt. Tarn Taran or through Demand Draft of any other bank Payable at Amritsar.
- b. Electronic Fund Transfer credited in BHEL account (before tender opening)
[BHEL Account details: - Punjab National Bank, Goindwal; Account Number: 1932009300002270; IFSC : PUNB0193200]

An envelope containing EMD shall be submitted clearly marked "EMD" and reference to Enquiry no. 1617-119E. Part I bids of those bidders only shall be considered who have submitted EMD.

Following shall be exempted from submitting EMD: -

1. PSUs of Central Government/State Governments (proper evidence had to be submitted).
2. Micro and Small Enterprises (documents required as per as per tender terms G.12 of General Contract Conditions).

EMD given by all unsuccessful bidders shall be refunded normally within 15 days of placing PO/Contract to successful bidder. EMD by the Bidder will be forfeited as per Tender Documents if, the successful bidder/vendor refuses to accept or acknowledge the Order after award of the same on him and/or withdraws his bid and /or unilaterally changes the offer and/or any of its terms & conditions within the validity period. EMD shall not carry any interest.



The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee (CEBG).

SPECIAL TERMS

S1. Loading Criteria cum Counter offer

BHEL reserves the right to negotiate with L1 or re-float the tender in case the quoted prices are not acceptable. BHEL will not give counter-offer to vendors for this tender except MSE benefits mention in clause no. G12 of GCC of MM Tenders.

S2. Delivery Schedule

4 months had been kept as delivery period to complete the order. For the new vendor after placing the Purchase Order, 2 months will be given for development in which vendor had to supply minimum of 300pcs. (50sets) and balance ordered quantity to be supplied by the vendor in the next remaining period.

In case the new vendor doesn't complete development order (300pcs.) in the stipulated time, the remaining order quantity will be cancelled.

In order to meet customer requirement, a fresh tender will be floated of the quantity remained unsupplied due to cancellation. The vendor who is unable to complete the development in stipulated time will be resorted to Risk Purchase.

S3. Contract Execution Bank Guarantee

In order to start the supply of material at the earliest, it is proposed to keep CEBG of the nominal value for 2% of the total purchase order value for all vendors. The vendor has to submit the CEBG within 15 days from the date of placement of Purchase Order. CEBG shall be kept valid until 30 days after the completion of order by the vendor. If the supplier fails to submit the CEBG within stipulated time, BHEL reserves the right to cancel PO & forfeit the EMD given by the supplier.

S4. General Contract Conditions (GCC)

These Special terms and conditions and GCC collectively are the part of tender terms and conditions.

S5. Scope of Supply

Material shall be supplied as per the applicable latest Technical Document No. IVP:QM:Tech:Req:Fuel Coupling:01 Dt. 23.01.2012/ Material Standard requirements/ Drawings. National & International material Standards shall have to be arranged by vendors themselves. Please note that there are two drawings. One drawing is of casting segment and another drawing is of assembly (set). Vendor has to supply us casting in assembly condition with machining as per drawing, **the track bolts with nuts for each set will be provided by BHEL.**



Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.

G1. INSTRUCTION TO BIDDER

Quotations shall be submitted before due date and time. Late offers are liable to be rejected, so please ensure to submit bid well within due date and time. Techno-commercial part will be opened on due date. **Based on evaluation of techno-commercial offers, Price bids of bidders who qualify from techno-commercial evaluation shall be opened. BHEL may decide to open the Price bid same day at 1700 hrs. If not opened on the same day, all qualifying bidders shall be notified for date of opening of Price bids by email/fax/post/courier/E-procurement system generated email.**

G1.1 INSTRUCTION TO BIDDER (In case of Non-E-Procurement/Paper/Manual/Hard Copy based tenders)

Sealed Tenders can be dropped in the tender box labeled as 'Tender box for MM contracts'. This tender box is located at the entrance of Admin block BHEL Goindwal. Fax (01859-222061) / E-Mail (tendermm@bhelivp.in) offers received in time shall be considered only when such offers are complete in all respects. In case of bulky tender please handover quotation to Sh Harpreet Rai/ DGM/Head-MM or Sh Tajinder Singh/AGM/HR,Civil,MM. [Contact : 01859 224 615/621].

G2.1. INSTRUCTION TO BIDDER (In case of E-Procurement)

Interested bidders/Suppliers shall submit their offer through e-Procurement mode at <https://bheleps.buyjunction.in>. **Offers in any other mode will not be accepted.**

For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps:

a. Requirements

1. A PC with Internet connectivity.
2. DSC (Digital Signature Certificate) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION)
3. The site is best viewed in Internet Explorer 9.0. If you are using Internet Explorer 10 or above then enable compatibility view available under Tools menu.
4. Install Java 1.8 Update 67/72/79/77 (32 OR 64 Bit)

b. Mandatory Requirements:

Suppliers interested for registration for BHEL Open Tenders should have a valid DSC (Digital Signature Certificate) before Proceeding forward for Registration. Herein a Valid DSC refers to an Active and unexpired Signing and Encryption Certificate, with specification Class III SHA 2 2048 bit.

For Unregistered Suppliers in EPS:

Procedure for Online Registration in EPS for Open Tender Suppliers for BHEL. Please follow the below steps for registration: -

1. Click Register Button (Top of the Screen).
2. Please input your organization PAN No (in case of Indian supplier) or click "Foreign" in case you are an overseas Supplier.
3. Click on INTERESTED Button against the Organisation name 'Trichy, BHEL'.
4. Key in your desired login id (Login Code should be 8 - 24 characters in length and can only use numeric values) If you have registered by keying in PAN No. then your desired login id will be prefixed by "OTI", In case of overseas suppliers it will be prefixed with "OTF".
5. Fill in the other details.
6. Fill in the Captcha code and click next
7. Register your Signing certificate and click next
8. Select atleast one procurement category you may be dealing in.





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Once the above steps are completed, your profile will be activated by mjunction within 2 business hours. After registering follow the steps provided in "For Registered Supplier" to view RFQ.

NB:-

1 BHEL Administrator or user will have no role for approving Registration and Open Tenders and DSC for Any supplier who has registered himself from the front END which is in case of OT.

For Registered Supplier in EPS:

1. Supplier visits EPS home page
2. Supplier signs in with their user id and password
3. Selects the RFQ Code and views it.
4. Attaches themselves to the RFQ by clicking the interested button
5. Supplier fills the bid template and makes necessary attachments
6. Supplier submits their bid by clicking CONFIRM.

In case of any assistance, please call the following Nos for support:

033-6601 1717(From 9:30am to 5:30pm)

9163348280/83/84/85/86, 8584008116, 8584008205, 8336925964 (From 5:30pm to 8:30pm)

G2.2. OTHER IMPORTANT INFORMATION RELATED TO E-PROCUREMENT TENDERS

1. The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.
2. The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. BHEL and mjunction Services Ltd. will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available for the Purchaser for processing.
3. Before uploading scanned documents if any, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.
4. On the due date of tender opening, only technical bids will be opened. The opened technical bids will be evaluated by us and clarifications required, if any, will be called for from the bidders on technical and commercial points. If no reply is received from the vendor for the clarification raised by BHEL with in the final cut-off date, those vendors offer will be processed with the documents available / submitted against this tender. Offers not meeting the required specification and technical condition will be summarily rejected. The price bids of technically suitable bidders will be opened on a later date with prior intimation to techno-commercially suitable bidders.
5. Ranking L-1, L-2 etc. shall be done for individual item for the techno-commercially acceptable offers on landed cost to BHEL, IVP Goindwal basis and BHEL reserves the right to place order for individual items with different vendors. In the event of more than one vendor becoming L1 for the item, the enquiry quantity will be shared equally among all the L1 vendors.
6. BHEL reserves the right to negotiate with L1 vendor or re-float the tender for items where, L1 price is not the lowest acceptable price; BHEL reserves the right to increase or decrease the tender quantity.
7. If supplier is mentioning delivery destination within state/ out side state depending upon his location of factory, Free On Road etc these are assumed as on FOR Goindwal. If supplier is wishing to give delivery on Ex works basis then he has to clearly mention about it.

G3. PRICE BASIS

- a. CST, VAT & Excise duty + any cess on ED at the rates applicable shall be payable extra against ED Gate Pass valid for CENVAT benefit.



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- b. Order of enquiry item sl. No. shall be maintained in the quotation.
- c. The rates quoted shall be firm and fixed. No price variation is proposed and allowed.
- d. Rates quoted should be F.O.R Goindwal basis. If bidder has quoted Ex Works, loading shall be done as per BHEL discretion for tender evaluation.

Variation in excise duty, sale tax/ vat or any other statutory levies during contractual delivery period shall be to BHEL's account

G4. VALIDITY OF OFFERS:

The offers shall be kept open for acceptance 'for number of days mentioned in special terms and conditions' from the date of opening of the tender. In case of extension of tender opening date, the validity shall be suitably revised.

G5. SCOPE OF SUPPLY

Material shall be supplied as per the applicable latest Technical Delivery Conditions (TDC)/ Material Standard requirements/BPS/Drawing and other requirement as given in the Tender Enquiry. National & International material Standards shall have to be arranged by vendors themselves.

G6. REPLACEMENT OF REJECTION:

If the material is rejected due to defective workmanship during inspection or at the time of actual use, within the guarantee period (i.e. as per clause 13), the rejected material shall be replaced by the supplier. Corresponding quantity shall be treated as unsupplied against respective purchase order till replacement is received at BHEL. If the material is found defective and rejected during use for which payment has already been released the rejected quantity shall be supplied free of cost by the vendor within a month of intimation of the rejection by BHEL.

Lifting of rejected material is under Supplier's scope. BHEL will inform related invoice, qty etc to supplier. Supplier is expected to give the plan to lift and advance intimation when visiting to lift the material. Material should be lifted within one month from date of intimation. After one month BHEL will not be responsible for rejected material. BHEL may decide to send the rejected material on To Pay basis to supplier. Any leniency/ unresponsiveness/delay on part of supplier may lead to appropriate action by BHEL. Any request to postpone in written may be considered but replacement should not be linked with lifting of material.

G7. SUPPLIED MATERIAL ADJUSTMENT:

Item/s pending in previous PO has to be billed in previous PO only. Otherwise BHEL will be free to adjust the supplies in previous PO. Any implication of Excise, VAT etc will be on supplier's account. For this it is desirable to reconcile the pending PO statement every month/frequently. BHEL will give pending PO statement every month. This can also be viewed at Portal (<http://vis.bheltry.co.in/mm/index.jsp>).

G8. DELIVERY SCHEDULE:

Supplies shall be affected and completed as per schedule mentioned in special terms and conditions. Further, BHEL may release delivery schedule from time to time based upon our requirement with mutual understanding. Vendor shall be required to complete the order as per the BHEL schedule requested.

G9. ACCESS TO MANUFACTURING PREMISES:

While Purchase Orders placed on the vendor are under execution, authorized representatives of BHEL shall be allowed free access to the manufacturing facilities for the purpose of inspection or monitoring the progress of purchase orders. This access will also be extended to representatives of BHEL's customers



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accompanying the authorized representative/s of BHEL (which shall be intimated in advance), if our contractual requirements with our customers call for the same.

G10. TERMS OF PAYMENT:

- a. Due payment against supplies received shall be due after 30 days of receipt and acceptance of material and shall be paid within next 15 days period. In case of any deviation from standard payment term mentioned, BHEL at it's discretion may load on the item price at "Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening) + 6% shall be considered for loading for the period of relaxation sought by bidders.
- b. Documents to be submitted (if applicable)
 - i. Commercial invoice (in duplicate)
 - ii. Excise invoice (in duplicate) valid for claiming CENVAT credit
 - iii. Original VAT invoice valid for claiming input tax credit,
 - iv. Transporter copy along with material/consignment.
 - v. Material Test Certificates (MTC) and
 - vi. Compliance Certificate.
- c. Above documents should include your Registration numbers such as ECC no, PAN no, CST no, TIN/ VAT nos. etc.
- d. If excise claim document is not received within time for claiming excise benefit as per restriction in availment of CENVAT Credit within 12 months of date of Invoice (Amendments in Union Budget 2015), the implication of this will be paid by supplier.
- e. It is mandatory to mention proper material codes in the invoices and separate invoices to be raised for different POs.
- f. **BHEL releases payment through EFT mode ONLY. Necessary details may please be submitted by filling required format before release of payment.**

G11. INSPECTION:

- a. All required tests as called in referred material standard/BHEL/TDC/drawing etc shall be carried out by vendor at no extra cost. **BHEL may decide to inspect itself/arrange third party at vendors' works itself as and when necessary with prior intimation to the vendor.** No additional charges shall be claimed for such inspections.
- b. Third party inspection charges will be borne by BHEL. Moreover all required infrastructure (testing, tools etc) have to be arranged by supplier.
- c. **Vendor will give inspection call sufficiently in advance considering the delivery period stipulated in the purchase order.**
- d. Material Test Certificates (MTC), Inspection reports and Compliance/Guarantee Certificate are to be provided along with the supplies.
- e. Latest applicable revisions of standards/procedures to be referred. International/National standards are to be arranged by vendor.
- f. Any inspection carried out before supply by vendor/incoming stage at BHEL notwithstanding, if any defect/non-conformity is noted during processing, the same shall be attended/replaced by vendor at no extra cost.
- g. Necessary tooling including thread gauges etc have to be arranged by vendor. Only in exceptional cases, based on BHEL discretions item/nature, BHEL may consider request to provide gauges if available with BHEL. But in no case this shall be linked with delivery of material.

G12. PREFERENCES FOR MSE's:

Preferences as mentioned in "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" shall be given to Micro and Small enterprises.

Main points which are mentioned in the above order are as follows:

- 20% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.
- 4% from the above mentioned 20% procurement quantity shall be procured from MSE's owned by SC /ST's. Failure to participate by any MSE owned by SC/ST's this 4% quantity shall be procured from other MSEs.
- EMD shall be exempted for MSE's. All these benefits are subject to production of all statutory documents
- In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 20 per cent of total tendered value. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).

"MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -1 where deemed validity of EM II certificate of five years has expired) 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 is not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer."

G13. GUARANTEE/WARRANTEE:

Vendor shall give a guarantee of 18 months from the date of dispatch or 12 months from date of receipt, against manufacturing defects, whichever is earlier. In case of non-acceptance of this term bid will be rejected.

G14. PENALTY FOR LATE DELIVERY:

'Time is the essence of the contract'. As such, delivery of goods specified in the Purchase Orders released under the scope of this contract shall be made within the time limit prescribed therein. Penalty for late delivery will be applicable @ 0.5% per week or part thereof subject to a maximum of 10.0 %.

If any vendor does not accept LD ½% of the supply for each week of delay subject to a maximum of 5%, their offer is likely to be rejected by BHEL and the price bid shall not be opened. Bidders accepting for 10% LD shall not be loaded on account of LD. However bidders who offer any other % LD [between 5% to 10%] shall be loaded @ % deviation from 10% and their accepted %.e.g. If a bidder accepts for a max of 7% LD only, their offer would be loaded @ 3% (10 – 7 = 3).

BHEL reserves the right to receive or not receive the material after the due date of PO.





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G15. RISK PURCHASE:

BHEL shall be entitled to terminate the contract/pending POs at any stage and to purchase elsewhere at the risk and cost of the vendor, either the whole of the goods or any part thereof which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid. Vendor shall be liable for the losses, which BHEL may sustain by way of such risk purchase.

G16. SUB-CONTRACT:

The purchase order or any part thereof shall not be sub-contracted, assigned or otherwise transferred without previously obtaining the BHEL's consent in writing.

G17. FORCE MAJEURE:

If at any time during the continuance of the contract, the performance in which or in any part by either party of any obligations under the contract are prevented or delayed by reason of any war, hostilities, acts of public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine restrictions, or acts of God (hereinafter referred to "an events" then provided the notice of happening of any such event is given by either party to the other within 21 days of the occurrence thereof, neither party shall by reason of such event be entitled to terminate the contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and delivery under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under the contract is prevented or delayed by reason of any such event, claims of extension of time shall be granted for periods considered reasonable by BHEL subject to prior notification by the vendor to BHEL of the particulars of the event and supply to BHEL, if required, of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed a waiver of time in respect of remaining deliveries.

G18. DISPUTES:

In the event of any dispute and/or difference arising between the Vendor and BHEL as to interpretation and/or execution of the contract and/or the respective rights and liabilities of the parties, such disputes and/or differences shall be referred to the sole arbitrator nominated by BHEL. The provisions of the Indian Arbitration Act and the rules there under shall apply to such arbitration. The award passed by the arbitrator shall be final and conclusively binding on all the parties.

G19. JURISDICTION:

The court of the place from where the purchase order is issued during the contractual period shall alone have jurisdiction to decide any dispute arising out of or in connection with the purchase order.

G20. CLARIFICATIONS

The correspondence exchanged against the tender from both tenderer and BHEL through email/e-procurement are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.



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G21. LOI (Letter of Intent)

BHEL may issue LOI prior to the PO for any reason whatsoever. The LOI in such cases is to be treated as PO for all practical purposes and all the Terms & Conditions of the tender shall be applicable from the date of issue of LOI.

G22. WORDS AND FIGURES

- a. If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- b. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
- d. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

G23. GENERAL:

- a) BHEL will not be bound by any power of attorney granted by the vendors or by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the vendor concerned.
- b) BHEL reserves the right to extend the due date of opening, which shall be informed. Validity of offer shall be deemed to be revised accordingly.
- c) BHEL reserves the right to accept or reject any part or whole of the tender of a bidder by assigning a valid reason thereof. BHEL reserves the right to cancel the tender without assigning any reason thereof and without any obligation before any commitment.
- d) If possible, please submit soft copy of price quotation [copied on a blank CD of standard make] put in the sealed offer.
- e) Acceptance of all terms and conditions, in the form of signed copy of T&C or confirmation separately written, shall be submitted along with quotation. If nothing is mentioned, it shall be concluded that terms and conditions are acceptable.
- f) BHEL may increase/decrease item/s based on BHEL requirement before price bid opening. Suitable price implication may be asked from suppliers.
- g) BHEL may drop item/items from tender at any stage of tender before placing PO. BHEL may also delete PO with consent with supplier within delivery date of PO.
- h) After releasing PO, it is assumed that supplier has accepted PO if we do not receive acknowledgement from supplier within 5 days of date of PO.
- i) Any term is special tender terms and conditions will supersede the GCC.
- j) If advance tax is applicable at Punjab border. Supplier has to deposit this advance tax by himself which will be reimbursed on submission of documentary proofs (Copy of entry tax receipt/online transfer details duly verified).
- k) BHEL reserves the right to negotiate with L1 bidder/s.

G24. BANNED FIRMS:

The offers of the bidders who are on the banned list as also the offer of the bidders, who engage in the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.

G25. DISCLAIMER CLAUSE: (Only for E procurement)

Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider (mjunction Services Ltd.) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

G26. FRAUD PREVENTION POLICY:

The Bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

G27. REVERSE AUCTION:

BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder.

This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

G28. SUSPENSION OF BUSINESS DEALINGS WITH DEFAULTERS

BHEL shall take action against suppliers by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc. Such action under Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier or a bidder or an applicant for registration as a registered supplier. The detailed guidelines are available at our www.bhel.com.

Certificate by Chartered Accountant on letter head

This is to Certify that M/S ,
(hereinafter referred to as 'company') having its registered office at
is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-11) dtd:.....,
Category:..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs forMicro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category {Micro/ Small} (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No.3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership number-

Seal of Chartered Accountant

CAUTION THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

2-47-243-00489

DRAWING NO.

EMBOSS ON THE CASTING
'24H' TO A HEIGHT OF 4 MM

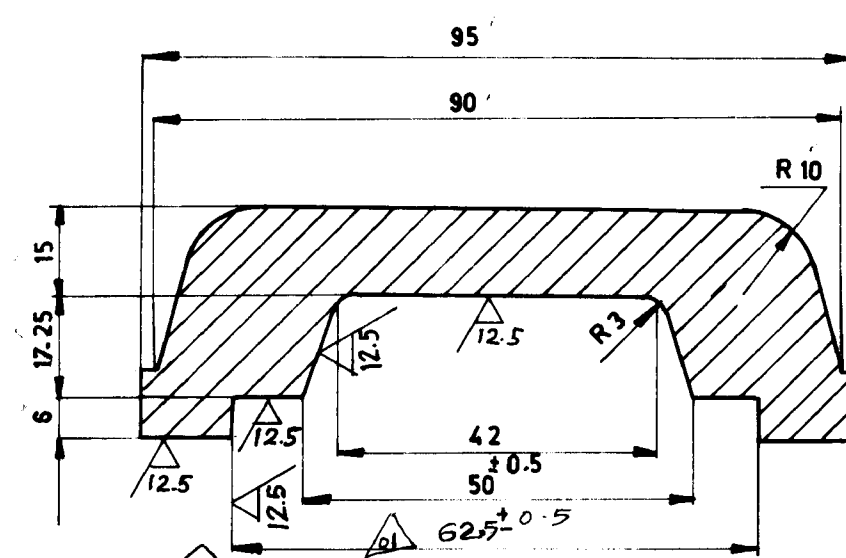
NOTES:

1. MATERIAL. FOR CASTING
ASTM A47 GRADE 32510
OR
ASTM A536 GRADE 65-45-12

- 2.OUTSIDE SURFACE OF CASTING TO BE SMOOTH.
3.DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.

- ~~4. INSIDE SURFACE SHALL BE SMOOTH WITHOUT ANY PROJECTIONS. SURFACE FINISH SHALL BE NOT LESS THAN 25μ.~~

- ~~5. CORE SHIFTING NOT TO EXCEED 05 MM. IF REQUIRED, M/C IS ALLOWED TO MAINTAIN THE DIMENSIONS.~~



VIEW- A

SECTION -BB

REV.	DATE	ALTD: <i>T. Murphy</i>
02	2.9.88	CHD: <i>BM</i>

NOTE 445 - DELETED.

SECTION-BB MACHINING
SYMBOL ADDED.
VIEW-A CIRCULAR HOLE
CHANGED TO ELLIPTICAL HOLE

REV	DATE	ALTERED
01	12/07/87	<i>Am and</i>
		CHECKED <i>R. B. J.</i>
ZONE		DIMENSION ALTERED
A6		FROM 70 TO 62.5

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd.,
BOILER PLANT UNIT
TIRUCHIRAPALLI-620 014

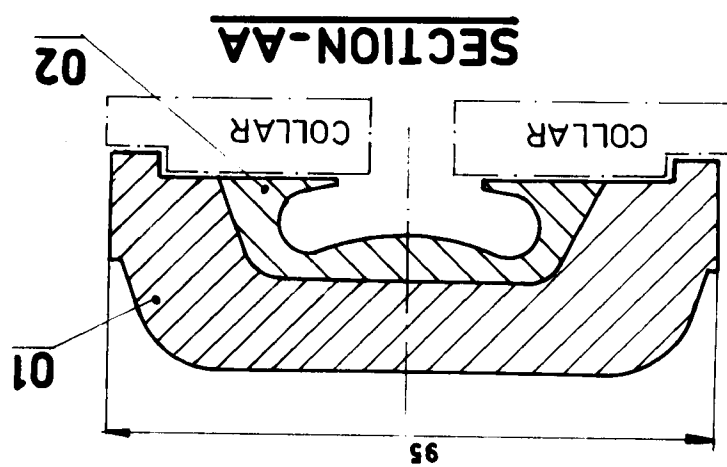
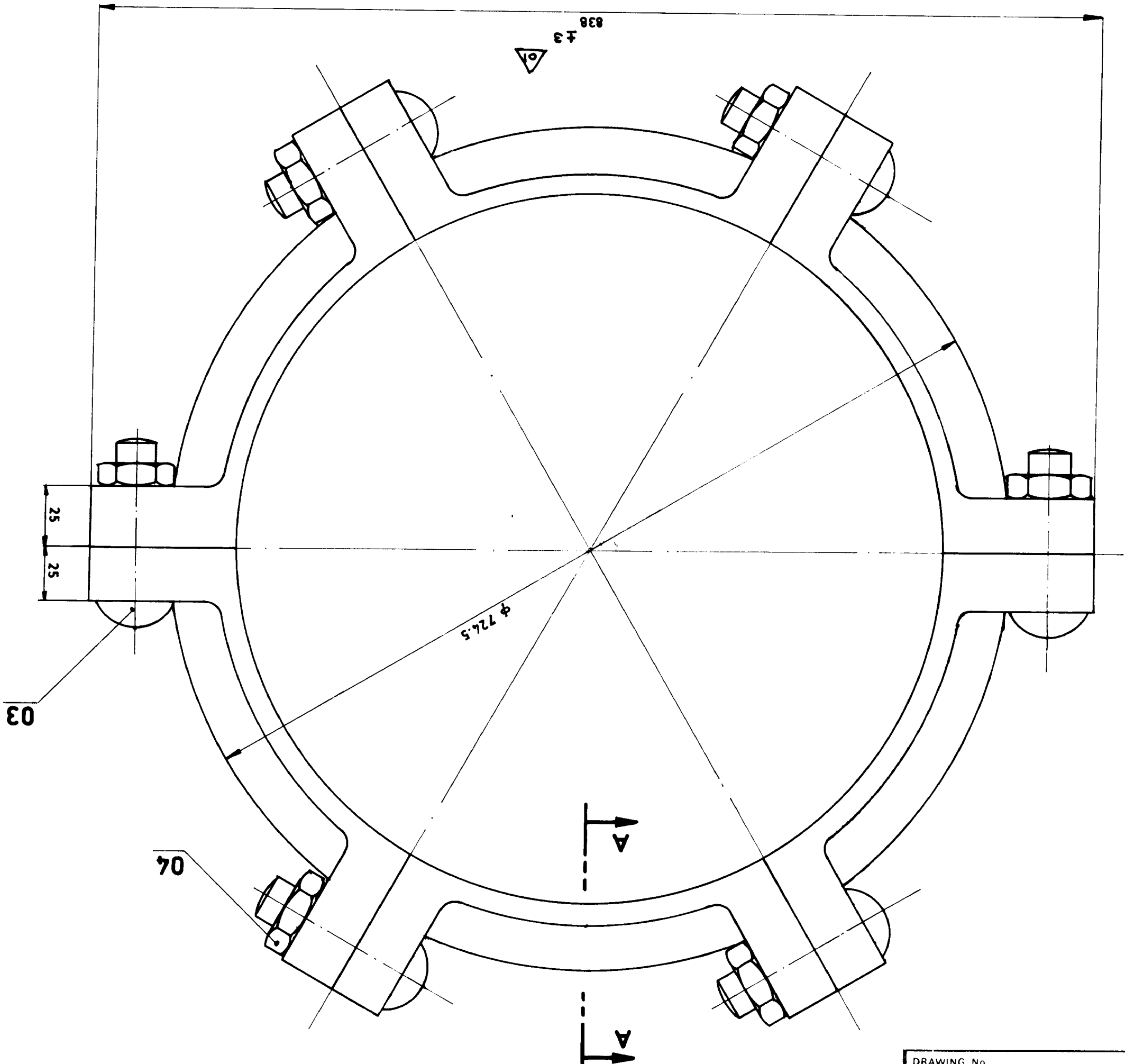
DRN	NAME	SIGN	DATE	NO. VAL
	T.K. PRABHU	T.K. Prabh	28-1-86	
CHD	P.S. Mani	P.S. Mani	29-1-86	
ADD	P. H. H. H. H.	P. H. H. H. H.	28-1-86	

DEPT CC	GRADE OF UNTL/DIM C/M/F		SCALE NTS	WEIGHT (kg) 6.20	REF TO ASSY / DRG 2-47-243-00493	ITEM NO.
CODE 123						
TITLE COUPLING HOUSING (24 H)				CARD CODE U 01	DRAWING NO. 2.47-243-00489	REV 02

Size A2

69700-642-47- - 2

DRAWING No



FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

NOTES :

1. FUEL PIPE COUPLINGS SHOULD BE SENT AS A FULL PIECE INCLUDING GASKETS BOLTS, NUTS IN THE ASSEMBLED CONDITION WITH COVERED CRATE PACKING.
2. THE COUPLING HOUSING SHOULD BE PAINTED WITH PRIMER AND UNIFORM COAT OF RED LEAD PAINT.
3. COUPLING HOUSING MATCH MARKS IF ANY ARE NOT TO BE DISTURBED.
4. COUPLING SHALL BE CAPABLE OF WITHSTANDING AN INTERNAL PRESSURE OF 3.5 kg/cm^2
5. GASKET SHALL BE RESILIENT TO PROVIDE PROPER SEAL AT THE SEALING SURFACE.

VARIANT NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	ITEM NO.	MATL. SPEC.	UNIT	QTY	ZONE
01	01	COUPLING HOUSING 24 H	2-47-243-00489				6.20	B
02	02	FUEL PIPE GASKET 24 H	4-47-243-01077		SILICONE		1.20	B
03	03	HEX. BOLT M 27X95	4-47-263-01210		SA 10 S		0.68	B
04	04	HEX NUT M 27	41301 27000				0.17	B
								C
								D
								E
								F

TYPE OF PRODUCT		OR NAME OF CUSTOMER/PROJECT	
Bharat Heavy Electricals Ltd. BOILER PLANT UNIT TIRUCHIRAPALLI-620 014			
DATE	SIGN	NAME	DESIGN
28.1.86		T.K. PRASAD	
29.1.86		P.S. NARAYAN	
29.1.86		S. NARAYAN	
ITEM NO.	REV	DATE	REVISION
01	01	13.88	NOTE 4 REVISED TOLERANCE ADDED. ITEM NO. 03 REVISED MT. REVISED.
TITLE		CODE	
COUPLING ASSY. 24 H		NTS	
C/D M/F		SCALE	
UNIT/ DIM		WEIGHT (KG)	
13.88		13.88	
01		U 01	
REV		2-47-243-00493	
01		01	

Bharat Heavy Electricals Limited
Industrial Valves Plant
Goindwal

IVP:QM:Tech Req:Fuel Coupling:01

Dated: January 23, 2012.

Technical Requirements for purchase of Machined castings for Fuel Pipe Coupling.

- 1.1 SCOPE: These technical requirements detail out the Quality requirements of Machined castings for Shoulder Type Pipe couplings used in fuel system.
- 1.2 Reference Documents: TDC:5:189/02.
- 1.3 General: The pipe couplings are of mechanical type connecting coal lines with a positive grip, which allow some degree of angular deflection.
- 1.4 Applicable Material Specification: ASTM A 47 Gr 32510 Or
ASTM A 536 Gr 65-45-12.

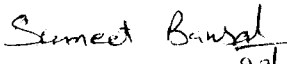
The machined castings shall be manufactured as per BHEL drawing and purchase specification.

- 1.5 Each coupling casting should be embossed with melt no. and vendor code for traceability to particular heat. All the relevant tests, as per the material specification, shall be carried out in a Govt. approved laboratory and the test certificate shall be provided. The foundry must send one test piece for each melt along with the castings to BHEL.
- 1.6 Dimensions shall be as per drawing and the profiles to be checked with template (Go and No Go). Templates will be developed by the vendor. Dimension report for coupling housing and assembly shall be submitted to BHEL.
- 1.7 One set of coupling (Six pieces/set – Preferably of same heat) shall be given a unique running serial number. Vendor will match mark the segment of coupling after machining and will encircle the same by paint.
- 1.8 Correlation report indicating coupling no. and Heat no. on segments will be submitted to BHEL.

Suresh Baisak
23/01/12

Shen
23/1/12

- 1.9 For all new vendors, hydraulic testing shall be done (As per para 1.11) on minimum five sets out of first fifty sets supplied by vendor. Vendor will not be treated as established vendor until successful completion of order of first fifty sets.
- 1.10 After establishment of vendor, BHEL may carry out hydraulic testing randomly on any set supplied by the vendor. If, at any time, coupling does not pass the hydraulic testing, then atleast five more couplings containing the defective heat no. coupling will be tested. In case of further failure, vendor will have to give replacement for all the couplings supplied under particular heat. Additionally, vendor will have to re-establish himself for that particular size of the coupling in case of any failure in testing
- 1.11 The coupling manufactured shall be hydraulic tested at BHEL at a pressure of 300 psi. The hydraulic testing shall be carried out both in horizontal and deflected position (At 1.5 degree).
- 1.12 The coupling should be thoroughly cleaned before supply. It should be free from rust, grease, oil and other foreign materials.
- 1.13 All machined surfaces should be applied with rust preventive oil. No paint is to be applied to couplings.
- 1.14 Proper care shall be taken to avoid any damage during handling and transportation.


(Sumeet Bansal) 23/01/12
Sr. Engineer – QM

Sr. Manager - QM


23/1/12



Bharat Heavy Electricals Limited

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TIRUCHIRAPALLI 620 014 INDIA

TECHNICAL DELIVERY PIPE COUPLINGS USED IN
CONDITION FOR FUEL SYSTEM

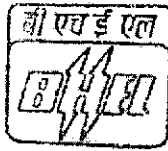
TDC:5:189/02
PAGE 01 OF 09

EFFECTIVE DATE 20.06.1994

ACCEPTED BY	SIGNATURE	DATE
ENGINEERING		20.06.1994
PURCHASE		20.06.1994
QUALITY CONTROL		20.06.1994
QUALITY ASSURANCE		20.06.1994

REV. NO.	DATE	AUTHORISED BY	SIGNATURE
02	20.06.1994	QUALITY ASSURANCE	

ISSUED BY : QUALITY ASSURANCE



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RECORD OF REVISIONS

REV:NO	CLAUSE NO	DETAILS OF REVISION	REMARKS
02	--	Totally revised.	



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TDC:5:189/02

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1.0 SCOPE:

- 1.1 This TDC details out the Quality requirements of Pipe couplings used in fuel system.

2.0 REFERENCE DOCUMENTS:

- 2.1 A) Purchase Specification and Drawings.
B) AWWA std.C-606-81.

3.0 GENERAL

- 3.1 The pipe couplings are of mechanical type connecting coal lines with a positive grip which allows some degree of angular deflection. The couplings are of three types (1) Shoulder type (2) Sleeve type (3) Slip on type.

- 3.2 The coupling and gasket shall be manufactured as per BHEL drg, and Purchase specification.

- 3.3 The manufacturer shall obtain approval from BHEL/OA for vendors for critical components like coupling housing, follower ring and silicon gaskets.

4.0 TECHNICAL REQUIREMENTS

- 4.1 Applicable Material Specifications.

4.1.1 Shoulder type couplings:

Coupling Housing ASTM A 47 Gr 32510 or
ASTM A 536 Gr 65-45-12.

Track bolt SA 105

Nut IS 1367 C1.VI

4.1.2 Sleeve Type coupling

Middle ring IS-2062 Gr-A

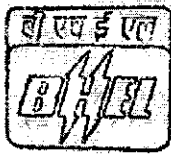
Follower Ring ASTM A 536 Gr 65-45-12

Bolt & Screw ASTM A 325 Type B
or IS1367 C1.10.9

Nut IS 1367 C1.VI

4.1.3 Slip on type coupling

Middle ring AISI 410/AISI 304



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Follower ring ASTM A 27-35 Gr 70-36

Nut ASTM A 325 Type 3 or
IS 1875 Cl.IV

4.1.4 GASKET:Silicon rubber,type VQ 1 as per ASTM D-2934

4.1.5 The manufacturer shall ensure that the Casting supplier identifies the casting by punching the melt no. on the material. All the relevant tests as per the material specification shall be carried out and the T.C shall be provided. The foundry must send one test piece for each melt along with the castings to the manufacturer.

4.1.6 The manufacturer shall identify the raw material (Coupling body, Follower ring) batch wise. Verify the TC for its compliance before accepting the material. Carry out the material check melt wise for its properties, by testing in a Govt. approved laboratory and report shall be maintained.

4.2 MARKING AND IDENTIFICATION:

4.2.1 Shoulder type Coupling Body

4.2.1.1 The coupling body shall be given a running serial number. Match mark the segment of shoulder type coupling after machining and encircle the same by paint.

4.2.1.2 Dimensions shall be as per drawing and the profiles to be checked with template. Inspection report shall be maintained.

4.2.1.3 All castings shall be traceable to the melt number.

4.2.2 Middle ring, Follower ring of Sleeve/Slip on type coupling.

4.2.2.1 Machined Middle ring, Follower ring shall be given a running serial number.

4.2.2.2 Conduct LPI for the middle ring. No visible defects shall be acceptable and report shall be maintained.

4.2.2.3 All castings shall be traceable to the melt number.

5.0 Silicon gaskets

5.1 If the coupling manufacturer manufactures the gasket the following are the requirements:

5.1.1 Verify the raw material T.C.

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5.1.2 Visually check the colouring accelerator. It shall be free from foreign material.

5.1.3 Silicon rubber compound shall be formed by mixing colouring accelerator in the mixing mill. Inspection report shall be maintained for the following

Type of check	Required	Actual
1. Dimensions	As per drg	
2. Confirmation of matl. to Silicon	Confirmity certificate	
3. Hardness - on final product (Shore-A)	50 TO 70	
4. Specific Gravity (raw matl.)	1.1 to 1.4	
5. Stablity of gasket dimensions	At 120° to 150°C for 3 hours	

The permissible variation from the original properties for VQ 1 silicon rubber of ASTM 2934 is as follows.

Shore hardness	10 - 15
Tensile strength	-25% to -40%
Ultimate elongation	-30% to -60%

5.1.6 Ensure that a calibrated thermometer/thermocouple is used to measure the temperature.

5.1.7 Check on one gasket from each production lot, all the dimensions and profile. Check the shore hardness of the gasket. The hardness shall be between 50 to 70 Shore A.

5.1.8 Serial number of gasket, manufacturer's code number and date of manufacture shall be identified and Inspection report shall be maintained.

5.1.9 Apply chalk powder and properly pack with polythene cover.

5.2 If the silicon gasket is a bought out item, for the coupling manufacturer, following are the requirements:

5.2.1 It shall be procured from BHEL approved vendors with TC and Inspection report as in format A, and comply with clause 5.1.3

5.2.2 Check the size, profile and Shore hardness on 10% of quantity as per drg. The hardness shall be between 50 to 70 Shore A.

5.3 Type test of silicon rubber gasket for mechanical properties and heat resistance as per ASTM D 865 shall be done atleast once in a year.



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6.0 TRACK BOLTS:

6.1 If the coupling manufacturer manufacture the track bolt the following are the requirements

6.1.1 Procure the raw material with relevant TC. Batch wise Identify the raw material.

6.1.2 For every batch, test the materials for its Chemical properties in a government recognized laboratory.

6.1.3 Check the dimension as per drg. and maintain inspection report as given in format B.

6.2. If the coupling manufacturer procures the track bolts as a bought out item, following are the requirement:

6.2.1 It shall be procured from the BHEL approved sources with TC and inspection report as given in format C.

6.2.2 Conduct hardness check on 10% of the quantity of bolts procured (Max. 5 nos per batch).

6.2.3 Conduct material test for its properties in a government recognized laboratory once in every batch of bolts procured from every vendor.

6.3. OTHER FASTENERS

6.3.1 Procure the fasteners from reputed fastener manufactures. Visually inspect it on receipt and adequate evidence shall be obtained from the manufacturer to ensure the dimensions are maintained as per drg. and it confirms to specification.

7.0 HYDRAULIC TESTING OF PIPE COUPLING.

7.1 The coupling manufactured shall be hydraulic tested at a pressure of 300 psi for shoulder type and sleeve type couplings and 100 psi for slip-on type couplings. The hydraulic testing shall be carried out both in horizontal and deflected position as detailed below.

7.1.1 Test shall be conducted in the presence of BHEL Inspection/BHEL Authorised Inspection Agency.

7.1.2 Before hydraulic test, it shall be ensured that the component is complete as per the drawing.

7.1.3 Only calibrated pressure gauges shall be used for pressure measurement.



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7.1.4 Suitable fixture shall be used for the Hydraulic testing. The fixture shall be inspected before the test to ensure water tightness. A non-return valve shall be provided at the water inlet to hold at the rated pressure. The water used for the hydraulic test shall be at ambient temp. in no case less than 21 deg.C.

7.1.5 The coupling and the gasket shall be assembled with the fixture. The assembly shall be filled with water, ensure that the air entrapped is driven off completely. pressure shall be slowly increased to the required test pressure. The pressure shall be retained for 15 minutes no leak is permitted. After the test water shall be drained completely.

7.1.6 The coupling in the fixture shall be given a deflection of 1.5 degree (max) for shoulder type coupling, 3 degree for slip on type coupling and 4 degree for sleeve type coupling. The hydraulic test shall be repeated as above.

7.1.7 The coupling shall be removed from the fixture, dismantled and the gasket shall be visually examined for free from any damages.

7.1.8 A hydraulic test report shall be prepared and duly countersigned by BHEL/QC or its Authorised Inspection agency.

7.2 In case the test was already done by any one of the approved vendors for a particular size and type of coupling, this need not be repeated by other vendor for that size and type of coupling as long as the raw materials for critical components are procured from the BHEL approved source and adequate controls as per cl.4.2 are exercised during processing. The scope of the vendor regarding the hydraulic test requirements shall be indicated in the purchase order.

7.3 For all new vendors hydraulic test shall be done on One coupling of largest diameter of the size ordered (based on sizes required) to demonstrate his capability to comply with the specification. Based on this, hydro test on other size couplings need not be done.

7.4 If the vendor prefers to procure the raw material from new sources, the couplings need to be hydro tested and approval for this shall be obtained from BHEL before manufacturing. BHEL approval has to be obtained for the new source before bulk supply.

8.0 PAINTING, PRESERVATION AND PACKING

8.1 Thoroughly clean all the components. It shall be free from rust, grease, oil and other foreign materials.

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- 8.2 All machined surfaces shall be applied with rust preventive oil.
- 8.3 One coat of red oxide (IS2074) and one coat of Red lead paint shall be applied for the Shoulder type coupling.
- 8.4 One coat of red oxide (IS2074) and one coat of Blue enamel paint shall be applied for the Sleeve type.
- 8.5 One coat of red oxide (IS2074) and one coat of Smoke Grey enamel paint shall be applied for the Slip type.
- 8.6 Enamel paint shall be as per IS 2932.
- 8.7 If gasket is supplied along with the coupling, it shall be wrapped with polythene tape (after applying french chalk) and then put on to the coupling.
- If gasket is supplied loose, it shall be placed in a polythene bag, after applying french chalk, with all required identification details like P.O., size etc.

9.0 IDENTIFICATION & TRANSPORTATION

- 9.1. Manufacturer's identification mark/Code No. and coupling serial No. shall be punched on each coupling
- 9.2 Each batch of couplings shall be identified with work order number by a metal tag.
- 9.3 Care shall be taken to avoid any damage during handling and transportation.

10.0 DOCUMENTATION

- 10.1 The manufacturer shall submit the following documents to M/S. BHEL.
- a. Material TC for castings, Track Bolts and rubber compound.
 - b. Lab. test report of rubber compound for specific gravity, hardness and dimensional stability of gasket after heating at 150 deg.C for three hours.
 - c. Hydraulic test report (if applicable as per Cl. 7.2 & 7.3).
 - d. Shelf life for silicon gasket for a minimum period of two years
 - e. Visual inspection of gasket for discolouration, cracks, fissures, if any, to be checked and reports to be given.



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TDC: 5:189/02
***** PAGE 9 OF 09 *****

DRG. NO.

FORMAT-A

GASKET RING(IF PROCURED)								
SL. NO.	DATE OF RECEIPT	SUPPLIER	QTY. PURCHASED	SIZE	PROFILE	HARDNESS SHORE A	SUPPLIER INSPECTION REPORT NO. & REVIEW	INSPN. SIGN OFF
							**1 **2	

**1 :Original mechanical properties as per ASTM A 2934-type V01 silicon rubber.

**2 :Type test for heat resistance at 150 deg.C for 70 hours as per ASTM D 865.

DRG. NO.

FORMAT-C

TRACK BOLT(IF PROCURED)									
SL. NO.	DATE OF RECEIPT	SUPPLIER	BATCH NO.	SIZE.	QTY. PURCHASED	RANDOM CHECK ON NATL.	HARDNESS	SUPPLIER INSPECTION REPORT NO	INSPN. SIGN OFF

DRG. NO.

FORMAT-B

MANUFACTURING TRACK BOLT									
SL. NO.	DATE OF RECEIPT	RAW NATL. QTY. RECD	NAME OF SUPPLIER	BATCH NO.	CHECK ON NATL.	QTY. ACCEPTED	SIZE	THREAD	INSPN. SIGN OFF

Regd. Office: BHEL HOUSE, SIRIFORT, NEW DELHI - 110 049.