

BHARAT HEAVY ELECTRICALS LIMITED

MM/RM/PURCHASE/TUBES

BHEL / TRICHY-620 014.

ANNEXURE-B**1501700034****Enquiry Terms & Conditions for Supply of Seamless Inconel Tubes/Pipes**

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).

Sl No	BHEL Requirements	Supplier Confirmation /Comments
01.	<u>Material specification:</u> Supply shall be made strictly as per Specifications mentioned in the enquiry.	
02.	<u>Specification, Size & Quantity:</u> a) Specification, size and quantity shall be as given in enquiry. b) All Tubes are to be supplied fully meeting the TDC 125 REV01 . c) All tubes are to be supplied to the specific length detailed in the description. d) Supplier shall indicate the place of manufacture & mill name in the offer.	
03.	<u>Pre-Qualification Requirement (PQR)</u> In addition to the TDC requirements, suppliers shall meet the below Pre-qualification Requirements (PQR). The offers of the suppliers who fail to do so will be liable for rejection A) <u>Organizational Capability:</u> 1. Manufacturers having tube mill are only eligible to participate. Offer from traders, re-rollers, fabricators and stockists are not acceptable and will not be considered for evaluation. Vendor to indicate the nature of the firm. 2. Suppliers without basic manufacturing facilities in-house, shall not be considered for evaluation. In house facilities for Heat treatment & Non-Destructive Testing (On-line UT & Online Thickness Measurement facility for Tubes) are mandatory requirements for consideration of the offer. Heat treatment furnace calibration certificate issued by government approved agency along with procedure for calibration shall be submitted. 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). <i>If the supplier is dependent on more than one source for steel making, all the sources should be indicated; and the supplies should be restricted to the indicated list of raw material suppliers.</i> For the submitted raw material sources, 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. Suppliers shall submit filled in supplier facility report (Format enclosed). 7. 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. B) <u>Technical Competence:</u> 1. Point by point confirmation to the TDC requirements is mandatory for consideration of offer.	

	2. Suppliers shall submit the list of facilities available at the mill (Raw material to finished product) & manufacturing quality plan to meet the TDC requirements along with technical bid. 3. Suppliers shall submit the experienced manpower details specific to Manufacturing, Quality and NDE requirements. C) <u>Past Experience/ Performance:</u> 1. The manufacturer shall have manufactured atleast a minimum quantity of 10 MT of Inconel material/tendered spec and the same shall have been supplied/ In Use/ Operation. Details of supplies made 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 sample test certificates) covering minimum and maximum sizes for the tendered specification shall be submitted. D) <u>Financial Soundness:</u> 2. Indigenous suppliers shall submit Audited copies of annual reports/complete set of annual accounts for the last four years (or from date of incorporation whichever is less). 3. Import suppliers shall submit latest D&B report. 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.	
04	<u>Online Supplier Registration:</u> All vendors who are not registered vendor of BHEL, Trichy for the tendered specification may also submit duly filled-in Supplier Registration form through online portal http://www.supplier.bhel.in and submit all relevant documents as required.	
05	<u>Offer Submission:</u> ➤ Offer is to be submitted in TWO part bids system (Technical bid + Price bid) in the E-Procurement portal https://bheleps.buyjunction.in. Scanned copy of the filled Annexure-A, Tender documents etc., shall be uploaded in the EPS portal. ➤ The offer is to be submitted within 2.00 P.M on or before the due date. ➤ At its option, BHEL may consider extending the due date/s for the tender openings. Sufficient notice would be given by BHEL for such extensions and it will be published as corrigendum in following websites, https://bheleps.buyjunction.in http://tenders.gov.in http://eprocure.gov.in ➤ After the scrutiny of PQR & technical bids, the price bids of only techno-commercially qualified offers shall be opened with prior intimation.	
06	<u>Authorization for participation in EPS portal through DSC:</u> i) <u>E-Tender Participation requirements</u> Either Principal or authorized agent shall register their Digital Signature Certificate (DSC) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION). Suppliers are advised to go through the FAQ available in the web portal (https://bheleps.buyjunction.in). 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. ii) <u>For foreign Principal</u> In case of Principal (being foreigner), they may apply for DSC through Indian embassy at their country and can register with us for participating in E-tenders. Details of the applicable procedure is available in the webpage http://www.cca.gov.in/cca/. iii) <u>For Indian agent</u> In case of agents participating/registering their DSC (of authorized person), it will be at the sole authorization of principal to their agents to participate on their behalf and all transactions done using that DSC against our tenders shall be known as valid communication and shall binding on principal and is legally valid. Please intimate the authorized person name, Mail ID for registering DSC with BHEL to participate in E-Tenders	
07	<u>Validity:</u> Offer/Price validity of 60 days is required from the Price bid opening date.	

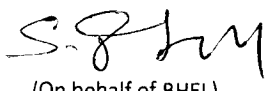
08	Delivery: The offer shall clearly indicate delivery period in fixed number of weeks/Months from the date of Purchase Order.	
09	Terms of Delivery : A. <u>INDIGENOUS:</u> a) Bidders should submit their offer for FOR Destination -BHEL Stores, Trichy. The quote should be inclusive of all charges, including testing, packing & forwarding, inspection etc. b) Any other extra charges like ED, CST/VAT etc. are to be indicated clearly. The offer will be evaluated on total landed cost to BHEL Trichy. c) Service tax, Octroi, Entry tax etc. to be indicated in offer and is payable extra only on submission of documentary proof. d) CENVAT CREDIT: If any excise Duty is payable, the chapter head / sub-head reference and the rate of the duty should be quoted. If the tenderer is availing CENVAT credit for this input material, the effect of preformed credit should be passed on to the purchaser. Tenderer under CENVAT shall be preferred. e) The soft copies of the Invoice, LR copy & Test certificates shall be forwarded to BHEL immediately after dispatch. f) For interstate supplies C-Form will be issued. B. <u>IMPORTS:</u> - Import vendors to submit offers on CFR (Cost & Freight), Chennai port (LILO – Liner in Liner Out) basis. - Port of loading should be indicated without fail. - Port of discharge should be Chennai. - The preferred shipment mode “Containerized Cargo or Break Bulk” shall be specified clearly in the offer. <u>FOR CFR INCO TERMS – CONTAINERIZED CARGO</u> a) For CFR terms, moved through CONTAINERS (Suppliers should clearly specify this in their offer) it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis including extra charges, if any, like Container Imbalance Charges, Trade Imbalance charges or any other charges payable to the Liner. No other charges other than the quoted Freight rate will be paid by BHEL excepting applicable Terminal Handling Charges, Container cleaning Charges, DO charges to Shipping Liner at Discharge Port. 14 FREE DAYS FOR Container detention shall be provided. If any deviation is taken by Tenderer, a loading of 22% on the freight rate per MT shall be considered by BHEL for arriving at the Total landed Cost. b) In case of shipment through Containers on CFR basis, the BL should bear the endorsement that “14 free days for Container Detention is applicable”. c) Place of delivery – INTVT6 – CONCOR ICD should be clearly specified in the Bill of Lading. d) The place of delivery “CONCOR INTVT6” should be mentioned in BL and the charges for the inland transportation of Containers (Chennai Port to CONCOR INTVT6) shall be borne by Supplier by inclusion of same in the CFR rate. e) In the case of non-acceptance of any Supplier to include the charges for the inland transportation of Containers (Chennai Port to CONCOR INTVT6), the same shall be paid by BHEL. But an amount of INR 300 per MT (in equivalent foreign currency as per the SBI TT selling exchange rate prevailing on the date of opening of technical bid) shall be loaded while commercial evaluation of the offer. However the Supplier shall ensure that the place of delivery “CONCOR INTVT6” is mentioned in BL <u>BREAKBULK CARGO</u> a) For CFR terms, moved through BREAK BULK BASIS (Suppliers should clearly specify this in their offer) it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis. b) The place of delivery “CONCOR INTVT6” need not be mentioned in BL. The materials will be Custom cleared from Port itself.	
10	<u>Transport Conditions for Import:</u> The Original Documents (Bill of Lading, Invoice, Packing List, Certificate of Origin & Test Certificate) shall reach BHEL well in advance before the vessel arrival. The soft copies of the above shall be forwarded to BHEL immediately after shipment. a) In the event of delayed submission of documents by the supplier, an amount up to 5% of the invoice value will be retained towards demurrage & other charges and the difference if any between actual charges and recovery will be settled separately through supplementary invoice.	

	b) In such cases, the Supplier shall authorize the Steamer / Shipping agent / transporter to freely release the consignment to BHEL by providing a "Surrender Bill of Lading". c) Otherwise, No-objection Certificate shall be issued to the Liner, authorizing BHEL to get the Delivery Order without producing the Original Bill of Lading. d) This is required to ensure avoidance of demurrage at Chennai Sea-port that may arise in case of delayed presentation of documents by the Seller.	
11	Payment terms: A. Indigenous: i) BHEL Payment term is 100% direct EFT payment after 45 days from the date of receipt and acceptance of materials. ii) The duplicate copy of the invoice meant for the transporters should accompany the material as stipulated under C.E. rules 52a and 173c (or) 57gg. A Photostat copy of the above invoice for each Delivery Challan should be submitted along with the original bills routed through bank or submitted directly to BHEL finance department. iii) Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders. iv) Payment through bank is not preferred. In case of payment through bank is opted by supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of goods to site/stores with consignee copy attached. In this case loading will be 3% on the offered value. v) Offers of indigenous Suppliers with payment terms as LC / Advance Payment are liable for rejection. B. Imports: i) BHEL Payment term is 100% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account. ii) Vendors supplying for first time to BHEL (for the tendered specification), the payment will be made after 45 days of receipt and acceptance of materials after testing at BHEL Lab. In case of supplier quoting for LC payment, first lot of mutually agreed quantity shall be supplied with payment as CAD basis after 45 days from the date of receipt & acceptance of material after testing at our Lab. After acceptance of first lot, LC may be opened for the remaining lot. ii) Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders. iii) If the LC payment is insisted, TWO sets of original TCs to be submitted prior to dispatch and a certificate to that effect from BHEL should form a part of the documents to be negotiated. If this condition is not complied by the vendor, the offer is liable for rejection. Note: LC will be opened one month prior to material readiness. Hence supplier shall intimate the material readiness accordingly for opening of LC. LC validity period will be 90 days and for any extension, applicable charges will be to supplier's account. ➤ In the case of Usance LC with 45 days credit, the loading will be considered @ 1.5% on the offered Value. Due date for payment will be considered from the date of receipt of documents at BHEL bank, as specified in PO. ➤ For LC at sight the loading will be considered @ 3.5% on the offered Value. ➤ Normally CAD at sight and Confirmed LCs are liable for rejection.	
12	Liquidated Damage (Indigenous & Imports): 1. For staggered delivery schedule, LD shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. 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). 3. a) IMPORT: For CFR terms, BL date will be considered for LD calculation. b) INDIGENOUS: For "FOR Delivery terms", Lorry way bill date will be taken for LD calculation.	
13	Risk Purchase clause : 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.	

14	Performance Bank Guarantee : The Bidder, in the event of an order, should furnish a bank Guarantee from BHEL's consortium banks (List attached) or counter – guaranty by vendor's bank to BHEL's consortium banks, at no extra cost to BHEL, in a proforma prescribed by BHEL, provided along with the order, for an amount equivalent to 10% of the contract value. The BG shall be valid for period of 18 months from the date of last shipment or 12 months from the date of receipt / acceptance at BHEL, Trichy whichever is later, with a claim period of two months. PBG shall be strictly as per BHEL format and to be submitted before the dispatch/shipping of the materials.	
15	Non-Disclosure Agreement(NDA): The bidders shall enter into the Non-disclosure agreement totally voluntarily, with full knowledge of its meaning and without duress. (Format attached).	
16	Patent Right 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 & 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.	
17	Comprehensive Economic Partnership Agreement (CEPA): Foreign suppliers shall ensure that the benefits as applicable under comprehensive economic partnership agreement (CEPA) with government of India are disclosed in the bid and relevant documents such as certificate of country of origin, issued by the appropriate authority in the country of exports, is provided by the vendor along with dispatch documents. Bids shall be evaluated with such applicable benefits. In the event of seller failing to provide appropriate documents for purchasers to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the seller's account.	
18	Role of Agents a. BHEL strongly discourages the engagement of Agents by foreign principals, to deal with BHEL, in BHEL's tenders. b. In case of foreign suppliers representing through their Indian/foreign agents, agency agreement should be submitted, else offer is liable for rejection. Agency agreement requirements attached as separate file and full compliance to it shall be ensured while submitting the same. a. BHEL, due to business reasons would ban, would have banned Indian agents from dealing with BHEL. Any foreign principal who engages such a banned agent, or an employee of the banned agency, or any other person connected with the banned agency, at any time during the tender proceedings, would be disqualified from the tender proceedings. The decision of BHEL in this regard shall be final and be binding on the OEM. Hence in their own interests, prospective tenderers may check with BHEL. The list of banned firms is available on BHEL website www.bhel.com. In view of the requirement of BHEL, it is strongly suggested that in their own interest, foreign principals may desist from engaging any Indian agent and deal with BHEL directly and it is stressed that any Main producer proposing to deal with BHEL by engaging and through an Indian Agent does so at their own risk. BHEL shall in no way be responsible for any consequences that may arise to the foreign principal on account of the antecedents / actions of their Indian agent.	
19	Agency Commission : ➤ In respect of offers from overseas suppliers, agency commission, if any, payable to their agents in India, shall invariable be shown separately in the Performa invoice and this will be paid by us in India, in Indian rupees, on satisfactory completion of the contract. ➤ If overseas principal has any tie-up with any third party in respect of agency commission it should be declared while submitting offers. ➤ Copies of current agency agreement / authorization letter in respect of agency commission shall be furnished along with offer, if not made available earlier. ➤ For calculation of rupee equivalent agency commission, exchange rate as prevailing on the date of order will be taken.	
20	Evaluation Criteria: 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 & indigenous vendors is detailed below: I) Indigenous Vendors Total Landed cost = FOR Rate in INR (A) + Applicable Taxes (B) + Loading for payment term & LD (C) – Applicable input tax credit (D) A. Indigenous vendors submit offers on Free on Road (FOR), Trichy in INR. B. Excise Duty, CST or VAT on (BASE PRICE+ED) and any other charges quoted by indigenous vendors will be added to the base price. C. Loading for payment terms & non-acceptance of Liquidated Damages (LD) will be added to the FOR value for arriving the landed rate. D. However input credit is availed for ED, VAT & Service Tax, hence the same is excluded for arriving at the landed cost.	

	II) Import Vendors Total Landed cost = CFR Rate in INR (A) + Loading for inland transportation of Containers to CONCOR INTVT6 (B)+ Applicable Duties (C) + Incidental Charges (D) + Loading for Container Shipment (E) + Loading for payment term & LD (F) A. Import vendors to submit offers on CFR (Cost & Freight), Chennai port (LILO – Liner In Liner Out) basis in foreign currency, which will be converted to INR by multiplying with the Exchange rate (SBI TT Selling rate) as on the technical bid opening date. B. Loading for non-acceptance to Inland transportation from Chennai port to CONCOR INTVT6 C. Customs duty & any other duties as applicable will be added to the INR price. D. Incidental charges of 1.5% will be added to the CFR Value. The incidental charge is inclusive of Insurance, port handling charges, & freight charges for movement from Chennai port to BHEL, Trichy. E. In case of shipment through containers, If 14 free days for Container detention is not provided in the offer, a loading of 22% on the freight rate per MT shall be considered by BHEL for arriving at the Total landed Cost. F. Loading for payment terms & Non-acceptance of Liquidated Damages (LD) will be added to the CFR value for arriving at the landed cost.	
21	General condition: a) Bids including all enclosures and supporting documents like catalogues, pamphlets, etc., shall be submitted / uploaded in ENGLISH language only. If the documents submitted have other than English language, translation of the same shall be provided for evaluation. b) In addition to TCs in relevant IBR forms corresponding mill TCs should also be provided along with dispatch of tubes. Two sets of original and one copy of all such TCs are to be provided to BHEL, Trichy. c) 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. d) Acceptance of Test Certificates by BHEL before dispatch is must. e) While dispatching the tubes, in addition to bundling with metal straps, we require slinging arrangement with nylon belt (not rope) for easy handling at loading and unloading points. f) We require the shipment of the Tubes to be as per the dates mentioned against the individual items in the enquiry. g) Multiple PO may also be placed considering the applicable duty structure of the respective requirement/Qty. h) Confirmation for partial ordering to be indicated in the offer itself. i) No revision of prices will be entertained after the tenders are opened. j) 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. k) BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed. l) 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. m) 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. n) 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. o) Offer will be evaluated based on Landed cost to BHEL- Trichy on individual line item basis only and ordering will be on respective L1 vendors. p) Vendor should physically weigh the materials before stuffing them into container and incorporate the same in BL and packing slip q) Offers for part quantities on item level basis are not acceptable to BHEL. While tenderers can quote for some or all the tendered items, no supplier shall quote for partial quantity of any given enquiry item. Such partial offer would not be considered in the enquiry for that item.	

	r) No payment will be made for the excess quantity / length. s) Quotes for shorter length tubes are liable for rejection and quotes for lengths exceeding the tender requirement will be evaluated suitably during technical evaluation. t) Offer should be submitted only as per the Unit of Measurement (UOM) specified in the enquiry. u) 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 -www.bhel.com. v) All documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder. w) The bidder shall submit his response through bid submission to the tender on e-procurement platform at https://bheleps.buyjunction.in. The bidder would be required to register on the e-procurement market place https://bheleps.buyjunction.in and submit their bids online. SEALED COVER BIDS / E-MAILS / FAX / MANUAL OFFERS WILL NOT BE ACCEPTED.	
22	Fraud Prevention Policy "The bidder along with its associate/collaborators/sub-contractors /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 fraud or suspected fraud as soon as it comes to their notice."	
	Cartel Formation: All the firms should desist from forming cartel as the practice is prohibited under Section 3(3) (a) & (d) of the competition Act 2002. If any such instance is observed during this tender will attract disciplinary action as per BHEL policies.	
24	Integrity Pact (IP): Signed Integrity pact should be furnished along with the offer. Offers without signed IP will not be considered for evaluation. IP should be signed by authorized official of the bidder / Vendor / Contractor.	
25	Resolution of Disputes: 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. 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/-) c. Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., BHEL Trichy. d. Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., Trichy, India.	
26	In the event of Force Majeure: 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. 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. 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. 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.	

27	Execution of the order: 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. 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 c. 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 suppliers.	
28	Enclosures: a) Technical Delivery Conditions (TDC 125 Rev 01) b) PBG Format & List of Consortium Banks c) NDA Format d) Supplier Facility Report Format e) Agency Agreement requirements	
 (On behalf of BHEL) S. DHANABAL Senior Engineer MM / RM / Purchase / Tubes BHEL, TIRUCHY - 620 014.		<u>SIGNED BY MANUFACTURER / MILL</u> Name of Mill: Designation / Department: Seal & Signature

Record of Revision:

Rev 00: 06/10/14: Fresh Issue

Rev 01: 10/12/14: Cl 2, 4, 5 and 9 corrected

1. Material:

Specification	:	ASME SB167 (Latest on the date of Purchase Order)
Material	:	UNS N06617
Additional Requirement	:	As listed below (Supplementary to Specification)
Size and Qty.	:	As per Purchase order

2. Chemical Composition and Process:

Material shall be produced by using vacuum induction melting (VIM) followed by vacuum arc re-melting (VAR) or electro slag refining (ESR). Any other suitable melting and re-melting process shall be used only after approval from the purchaser.

Product Analysis: As per spec. Raw materials used in making of pipes including incoming scrap shall be checked by supplier to ensure freedom from radioactivity. Pipes shall be made by seamless process/ extruded process and shall be hot worked annealed or cold work annealed.

Heat Analysis in weight %: Test method as per ASTM E1473

Element	Cr	Fe	Mn	Mo	Co	Al	C	Cu	B	Si	S	N	Ti	Ni
Wt %	21-23	1.5 max	0.3 max	8-10	11-13	0.8-1.3	0.05-0.08	0.05 max	0.002-0.005	0.3 max	0.008 max	0.05 max	0.3-0.5	Bal

3. Dimensional Tolerances & Straightness:

- OD/ID and Wall thickness tolerances as per BHEL PO and relevant Drawing.
- The Pipes shall not deviate from straightness by more than 1mm in any one shall not be more than 6mm over the entire length. A sharp bend at the end or kink and twist are not acceptable. These limitations are applicable for any given plane.

4. Heat Treatment:

UNS N06617 – solution annealed in the range 1150°C to 1175°C.

5. Mechanical Tests:

Extent of test: one sample/for each size/heat/HT batch; on final heat treated condition samples:

UNS N06617: Tensile Strength: Min 665 MPa, Yield Strength (0.2% off set): Min 240 MPa, Elongation (L=5.65√A), min 35%

Microstructure: Grain size ASTM No 2 to 5.

6. Non-destructive testing & Hydro testing: (Preferably on-line automated)

Each tube shall be examined for its integrity of full section over its entire length.

Eddy current testing: Eddy current testing shall be conducted as per ASTM E 571. 100 % area shall be inspected to ensure absence of surface and sub-surface defects.

Ultrasonic Testing: For thickness equal to and greater than 3.6 mm UT shall be conducted as per ASTM E213. Calibration: 2 axial notch (one ID & one OD) and 2 transverse notch (one ID & one OD) shall be used to standardise the system settings (to draw DAC) for circumferential scan and axial scan respectively. Notch shall be of length 50mm and depth 3% (maximum) of nominal thickness of job (Minimum depth shall be 0.3 mm). For OD less than 30mm one notch in outer surface (OD) is sufficient for calibration. The direction of scanning shall be clockwise & anti clockwise for circumferential scan to find longitudinal discontinuity and two axial direction for axial scanning to find transverse discontinuity. Scanning shall be done with scanning sensitivity of reference level plus 6 dB. Evaluation shall be carried out with reference sensitivity.

Acceptance criteria: Any discontinuity crossing the DAC shall not be acceptable irrespective of length. Any discontinuity with indication less than DAC shall be sized and if the length of discontinuity is greater than 10 mm it shall not be acceptable. All indications shall be sized and reported.

Hydro testing: Extent of test: On all pipes as per ASME SB 829 Cl 5.2 with S = 163MPa.

7. Workmanship and Finish:

The Inside & outside surfaces of the pipes shall be free from any imperfections. The material shall be plain, uniform in quality and condition, smooth, straight or flat and free of wrinkles, overlaps, tears, cracks & defects like laps, seams, folds, cracks, pitting etc. Localised imperfections, if any, may be removed by skin machining only to a surface finish of ≤ 6.3 microns ensuring the wall thickness, inside and outside diameter. Local depressions or ground spots are not acceptable. No repairs/weld repairs permitted. Pipes (inside & outside) to be clean & shot blasted to remove scales after HT.

8. Marking & Packing:

Details to be identified: On Each Pipe 1) Heat number 2) Specification & grade 3) Size 4) Maker's emblem/code, 5) No. of pipes 6) Inspector's seal.

- i) Upto OD 31.8 (Excl.) – Sl.No: 1 to 7 to be stamped on metal or plastic tag attached to bundle.
- ii) OD 31.8 to OD 76.1 (Incl.) – Sl.No:1 to 5, 7 to be paint stencilled on each pipe, 1 to 7 to be stamped on metal or plastic tag attached to bundle.
- iii) OD > 76.1- Sl.No: 2,3,4,5 & 7 to be hard stamped with round edged stamp at 100mm from an end of each pipe and 1 to 5 to be paint stencilled on each pipe.

9. Inspection & Certification:

- a) Products shall be inspected at works and the applicable IBR Form must be Countersigned by the Inspecting Authority as indicated below.
- b) Imported Items: Inspecting Authority approved by IBR for the Country of origin (To be concurred by BHEL before placing PO). Indigenously Supplied items: Boiler Inspectorate/Directorate of respective State.
- c) Certification in IBR Form-IIID (Annexure – I) for IBR items from “IBR-Well Known Pipe Maker” and for Others IBR Form-IIIA (Annexure – II) as per enclosed format to be submitted.
- d) Manufacturer's Test certificate (MTC) (ORIGINAL in ENGLISH with following details):
 - i) Purchase Order No. (BHEL), TDC No. & Test certificate No., Size and Quantity-Melt wise.
 - ii) Specification and Grade with year of code, Code case number, Heat Number, Steel & Pipe making process, chemistry including incidental elements-Ladle and product Analysis.
 - iii) Supplier TC of the steel used in making the finished product – Well known steel maker IBR Form IV & others Form IVA.
 - iv) Details of steel ingot, Melting & forming process, Chemistry including incidental elements - Heat wise.
 - v) Heat treatment details of the material and test bars, Mechanical test results with reference & acceptance standard.
 - vi) NDE examination test results with reference & acceptance standard.
 - vii) Results of dimensional data sheet
- e) Survey meter shall be used to measure radioactive contamination at 5cm near the surface. Acceptance limits: Shall be less than 0.1 milli Rontgen (MR) per hr or 1 micro Sievert per hr. The Measured Radioactivity levels shall be reported in the Mill Test Certificate. (Not to be recorded in IBR Form).

All the tests specified here shall be carried out at works and the test results shall be furnished in the test certificates (4 copies). The bars shall be inspected and certified by the inspecting agency authorised by BHEL, wherever specified in the purchase order.

f) Quality Plan:

Before start of production the manufacturer shall submit a Manufacturing and Inspection plan (MIP) to BHEL product QA for approval. The MIP shall constitute of:

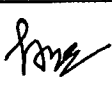
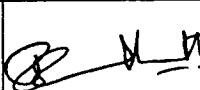
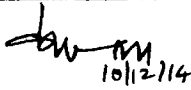
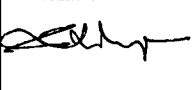
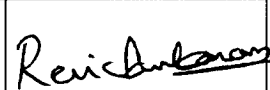
- | | | |
|---|---|--|
| i) melting & refining,
ii) ingot weight and type,
iii) hot rolling/extrusion process
iv) top bottom end discard percentages,
v) position of the part in ingot,
vi) preliminary heat treatment, | vi) internal tests and inspection before final heat treatment,
vii) quality heat treatment along with parameters,
ix) test and inspections after heat treatment
x), test certificate requirements, | xi) marking preservation and dispatch,
xii) test instructions for NDE examinations along with sketches
xiii) type of machining and examinations. |
|---|---|--|

g) Audit Checks at BHEL:

BHEL reserves the right to carry out audit checks for chemistry, HT condition, mechanical test and NDT on representative test bars or job. Supplies found defective during check or subsequent processing at BHEL are liable for rejection.

h) End Use

To be used in pipes of boilers and headers for Advanced Ultra-Super Critical (AUSC) boiler applications.

 Haritha.C/QA	 Ravibharath.R/WRI	 Kalyanaraman.V/QA	 Selvarajan.S/QA	 Revisankaran.U/QA
Prepared by		Reviewed by		Approved by

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT AND THE EXPIRY DATE OF BG MUST BE AFTER 60 DAYS FROM THE DATE OF COMPLETION OF WARRANTY PERIOD)

PERFORMANCE BANK GUARANTEE

In accordance of M/s. Bbarat Heavy Electricals Limited (A Government of India undertaking, a company incorporated under the Companies Act 1956 having its Registered Office at "BHEL House", SIRI Fort, New Delhi 110 049) through its High Pressure Boiler Plant Division located at Tiruverumbur, Tiruchirapalli- 620 014 (hereinafter called 'the Company') having entered into a contract with hereinafter called 'the said contractor' which term includes 'suppliers' for the purpose of this Bond and under the terms and conditions of the contract No..... Dt Between BHEL, Trichy and as per the contract, the contractor / supplier is to furnish a performance Bank guarantee for Rs. for the due performance of the equipment to be supplied under the above referred contract and for the fulfillment of all the terms and conditions of the contract, We(indicate the name of the bank) (herein after referred to as the bank) at the request of (Contractor(s)) do here by undertake to pay the company an amount not exceeding Rs.....against any loss or damage caused to or suffered or would be caused to or suffered by the company by reason of any breach by the said contractor (s) of any of the terms and conditions contained in the said agreement.

2. We(indicate the name of the bank with full address), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by the reason of the contractor(s) 'failure to perform' the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.

3. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We.....(indicate the name of Bank), further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Office / Department/ Division of the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. (I) Unless a demand or claim under this guarantee is made on us in writing on or before the _____ we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.
- (ii) For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Ack.Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.
6. We(Indicate the name of Bank), further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would, but for this provision, have effect of not so relieving us.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
8. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.
9. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirapalli.
10. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the guarantor.
11. We(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

In witness whereof we....., (indicate the name of Bank) have hereunto setout
Bank Seal the _____ day _____ month 200
BANK E-MAIL ID:
BANK PHONE NO.
BANK FAX NO:

List of Consortium Bank		
	Nationalised Bank	Nationalised Bank
1	Allahabad bank	19 Vijaya Bank
2	Andhra bank	Public Sector Banks
3	Bank of Baroda	20 IDBI
4	Canara Bank	Foreign bank
5	Corporation bank	21 CITI Bank N.A
6	Central bank	22 Deutsche Bank AG
7	Indian Bank	23 The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24 Standard Chartered Bank
9	Oriental bank of Commerce	25 The Royal Bank of Scotland N.V.
10	Punjab National Bank	26 J P Morgan
11	Punjab & Sindh Bank	Private bank
12	State Bank of India	27 Axis Bank
13	State Bank of Hyderabad	28 The Federal Bank Limited
14	Syndicate Bank	29 HDFC
15	State Bank of Travancore	30 Kotak Mahindra Bank
16	UCO Bank	31 ICICI
17	Union Bank of India	32 Indusind Bank
18	United Bank of India	33 Yes Bank

**Technical: Seamless Tubes & Pipes Suppliers
(Carbon / Alloy / Stainless Steel)
Supplier Facility Report**

1. Name of the Company

2. Address of the Registered Office
(Telephone, E-Mail, Fax)

3. Factory Location and Address
(Telephone, E-Mail, Fax)

4. Installed Capacity (Tonnes / Year)

4.1) Carbon Steel

a) SA 192

b) SA 210 Gr. A1, C

c) SA 106 Gr. B, C

d) Riffled Tube / SA 210 Gr. C

4.2) Alloy Steel

a) SA 335 P11, P12, P22

b) SA 213 T11, T22

c) SA 335 P91, SA 213 T91

d) SA 335 P23, P92

e) SA 213 T23, T92

f) Riffled Tube /
SA 213 T12, T22, T23

4.3) Stainless Steel

a) SA 213 TP 304H

b) SA 213 TP 347H

c) SA TP 347HFG

d) Super 304H

5. Are you making your own steel
(Bloom) for making Tubes / Pipes ?

YES

☐

NO

☐

6. If yes, for Sl. No. 5

a) Type of Furnace

b) Capacity of furnaces
(Metric Tonnes / Melt)

c) Facility for manufacture
of Blooms

7. If No, for Sl. No. 5

a) Source of Raw Material (Blooms)

8. Tube / Pipe Manufacturing Facility details

8.1 Capacity of the rolling mill with respect to
Diameter (Minimum and Maximum),
Thickness (Minimum and Maximum) and
Length (Maximum)

a) Through Hot Finishing

b) Through Cold Finishing

8.2 Type & Make of Hot Mill along with the details
of the Individual Equipments

8.3 Type & Make of Cold Mill along with the details
of the Individual Equipments

9. Heat Treatment Facility Details

a) Capacity of the Furnaces

b) Type of Heat Treatment Carried out
(Batch or Continuous)

10. In House Testing Equipments Details

a) Online UT Facilities

b) Online Eddy Current (EC) Facility

c) Hydro Test Facilities
(Indicate the Maximum Pressure)

d) Chemical and Mechanical Testing Facilities

11. Details of Accreditation for Quality Systems
(Like ISO, ASME, API etc.,)

12. Are you Approved by any
Third Party / Statutory Agency ?

If so, specify the Agency (**Attach details in ENGLISH**)

13. Have you manufactured the following
Size / Specification / Length to

BHEL or any other well-known Boiler Manufacturer for Boiler Application

Please provide the details of to whom, when and how much supplied.

→ **a) TUBES:**

TUBES REQUIREMENT- LENGTH : 6500 mm to 13800 mm			
SL. NO.	OUTER DIAMETER	WALL THICKNESS	SPECIFICATION
1	21.3 to 73.01 mm	2.11 to 14.02 mm	SA 106 Gr B / Gr C (Carbon Steel) SA 335 P12, P22, P23, P91, P92 (Alloy Steel)
2	28.6 to 76.1 mm	3.2 to 12.5 mm	SA 192 / SA 210 Gr A1 / Gr C (Carbon Steel) SA 210 Gr. C (Rifle Tubes) SA 213 T12, T22, T23 (Alloy Rifle Tubes)
3	14 to 76.1 mm	3.2 to 12.5 mm	SA 213 T11, T22, T23, T91, T92 (Alloy Steel) SA 213 TP 304 H, TP 347 H, TP 347 HFG, Super 304 H (SS)

b) PIPES:

PIPES REQUIREMENT – LENGTH 3000 mm to 9000 mm			
SL. NO.	OUTER DIAMETER	WALL THICKNESS	SPECIFICATION
1	88.9 to 864.00 mm	3.96 to 148.0 mm	SA106 Gr B / Gr C (Carbon Steel)
2	88.9 to 965.00 mm	3.96 to 130.0 mm	SA335 P11, P12, P22, P23 (Alloy Steel)
3	127.0 to 812.8 mm	11.50 to 100.00 mm	SA335 P91, P92 (Alloy Steel)
4	88.9 to 323.9 mm	3.05 to 12.5 mm	SA312 TP304H, 321 H, 316 (SS)

14. Please go thro the attached **Technical Delivery Condition (TDC)** and give point-by-point confirmation.

a) For Tubes: TDC: 0:102, 0:105, 0:119

b) For Pipes: TDC: 0:101, TDG: 32, TDG: 100, TDG: 101, TDG: 26, TDG: 6876

PLACE :

DATE :

SIGNATURE WITH SEAL

NOTE: Enclose Additional Sheets / Annexures wherever required referring the Sl. No. of this format.

 BHEL - TRICHY	THIRD PARTY NON-DISCLOSURE 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