



BHARAT HEAVY ELECTRICALS LIMITED
CORPORATE RESEARCH & DEVELOPMENT DIVISION
VIKASNAGAR, HYDERABAD - 500 093, INDIA

PHONES:23774494 (EXT:9804)
FAX : 91 40 23770698

RD:DP:MPX:F-04
Ref: 751403363

ENQUIRY

Date 29-12-2014

Enquiry for Inconel 625 cast block

Enquiry No:751403363 Enquiry Date : 29-12-2014 Due Date: 31-01-2015 Indicative Delivery Date : 10-06-2015

Sl.No	Item Description	Unit	Qty
1	Inconel 625 cast block as per item specifications (3 blocks)	KG	1200

Please submit your quotation for the above material in sealed cover superscribed with enquiry no, enquiry date and due date subject to our enclosed terms and conditions. The quotations shall reach us on or before the due date by 12 noon. The tenders can also be dropped in the tender box kept at the security gate,BHEL R&D. In case you are not in position to submit the offer,please send reply suitably specifying the reasons.

Sl.No	Description	Document Ref.
01	Enquiry, General Terms & Conditions, Commercial Terms & Conditions etc.	Volume - 1
02	Technical specifications, Scope of Supply etc.	Volume - 2

M Hemanth Kumar
Manager
hemanthkumar@bhelrnd.co.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 751403363
Inconel 625 cast block		

1	Tendor inviting officer / Authority, Designation and Address	Additional General Manager(MM) BHEL R & D, Vikas Nagar (Near Balanagar), Hyderabad -500093
2	Item Description - Qty	1) Inconel 625 cast block as per item specifications (3 blocks) - 1200 KG
3	Enquiry Reference no.	751403363
4	Indicative Delivery Date	10-06-2015
5	Due date, Time and place for submission of tender	31-01-2015 upto 12 noon. Sealed Quotations shall be addressed to AGM(MM), BHEL R & D Division, Vikas Nagar (Near Balanagar), Hyderabad AP,India Pin - 500 093 Quotations can also be deposited in the Tender box located at Security Gate of BHEL R & D BHEL shall not be responsible for any postal/courier delay.
6	Place, Date and time of Tech.Bid opening	Tender Opening Cell (Sangam) BHEL R & D Office. 31-01-2015, 2 PM
7	Mode of Submission of Tender	<p>Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below.</p> <ol style="list-style-type: none"> 1. First Cover shall contain: <ol style="list-style-type: none"> a. Technical & Commercial bid. b. Filled in commercial compliance statement(mandatory) c. Copy of Price-bid with price(s) cells blank (un-priced price bid) 2. Second cover shall contain Price Bid. Price Bid Containing Price quotes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc. <p>If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summararily. The rates shall be quoted both in figures and in words.</p> <p>The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE, JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelmd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered.</p> <p>The e-mail offers should have two attachments. One attachment shall contain a) Technical & Commercial bid b) Filled in Commercial Compliance Statement (mandatory) and c) Copy of price bid with price(s) cells blank (un-priced price bid). The second attachment shall contain price bid.</p> <p>The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.</p>

	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 751403363
Inconel 625 cast block		

SL.No.	Clause	BHEL REQUIREMENT
1	General	<p>a. All offers must include name of the contact person, phone no/mobile no, Fax no, email-id. Unsigned offers are liable for rejection.</p> <p>b. We, BHEL R&D, is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption in terms of Government Notification no.24/2007-Customs dated 01-Mar-2007 & Central Excise Duty Exemption in terms of Government Notification No. 16/2007-Central Excise dated 01-Mar-2007 as amended from time to time. Hence suppliers are requested to submit their bids clearly stating applicable taxes/duties. All foreign quotes will be evaluated with custom duty @ 5.15% for cost comparison.</p> <p>c. Taxes & Duties quoted will be taken for evaluation of landed cost & order placement and no change will be entertained later except in the case of changes made by the government. However please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. In case any Taxes/ Duties exempted, a self declaration for the same may be attached to the offer. Changes in taxes and duties because of the changes in turn over etc will be to supplier's account.</p> <p>d. Where ever vendor registration form and EFT details have been submitted earlier, the same need not be submitted again unless there is a change.</p> <p>e. BHEL R&D do not issue 'C' form .</p> <p>f. L1 status shall be decided on Cost to BHEL Basis.</p>
2	Foreign Suppliers	<p>BHEL will deal directly with foreign vendors, where ever required, for procurement of goods.However, if the foreign principal desires to avail of services of an Indian agent,then foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement containing agency commission.</p> <p>Any supplier (Agents/distributors/representatives) desirous of quoting imported goods/services, they should submit the quote in foreign currency along with agency agreement copy, failing which their offer is liable for rejection.In case of non submission of agency agreement copy,the principal should submit the quotation to BHEL directly. Foreign supplier will also indicate in their offer Indian agent's name, if any, address and percentage of agency commission out of the quoted price.</p> <p>Fully owned Indian Subsidiaries/distributors of Foreign Companies shall quote in Foreign Currency on FOB basis only.</p>
3	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
4	Discrepancy in words and figures	<p>(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.</p> <p>(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</p> <p>(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.</p> <p>(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.</p>
5	Two Part bid clarifications	In the case of Two-part bid, the vendor should furnish technical and commercial clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
6	Price Impacts	In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during price bid

		opening. Unsolicited price impacts will not be considered.
7	Price bid evaluation	All offers in price bid opening or reverse auction shall be evaluated in Indian currency based on unit price, packing & forwarding, taxes/duties, freight charges if any, exchange rate. Loading due to non-acceptance of our standard commercial terms will be evaluated as per the LOADING FACTORS form as enclosed along with the enquiry. The exchange rate declared by State Bank of India under TT Selling rate on the technical bid open date shall be adopted for evaluating foreign currency bids.
8	Packing	The supplier shall be responsible for the goods being properly and adequately packed so as to prevent any loss, damage or deterioration during transit.
9	Withdrawal	In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
10	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
11	Banned List	The offers of the bidders who are in the banned list and the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.
12	Additional Information	Suppliers are requested to visit our web site regularly for any updates and additional information, "All corrigenda, addenda, amendments, time extensions clarifications, etc. to the tender will be hosted on BHEL website only". The corrigendum will not be published in news paper.
13	Destination	Indian Vendors: Destination shall be Stores, BHEL R&D, Hyderabad. Foreign Vendors: 1) BHEL R.O.D Office, Mumbai, India for sea consignments and 2) BHEL R&D, Hyderabad, India for air consignments.
14	Arbitration	Subject to the jurisdiction of Hyderabad/Secunderabad, Andhra Pradesh, India in respect of any suit or other legal proceedings relating this contract.
15	Micro Small Enterprises (MSEs)	<p>In case the supplier belongs to MSEs (Micro Small Enterprises), Registration copy in this respect shall be submitted along with the offer. Further if MSEs are owned by the Scheduled Caste or the Scheduled Tribe entrepreneurs the same may be intimated.</p> <p>The following are the benefits for the MSEs.</p> <ol style="list-style-type: none"> 1. MSEs are given tender documents free of cost and are exempted from payment of earnest money (EMD). 2. In tender, participating MSEs quoting price within price band of L1+15% 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 MSE and such MSE shall be allowed to supply up to 20% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately. <p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format as below) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) Where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.</p> <p style="text-align: center;">Certificate by chartered Accountant on letter head</p> <p>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-II) dtd:....., Category:.....(Micro/Small). (Copy enclosed). Further verified from the Books of Accounts that the investment of the company as on date..... as per MSMED Act 2006 is as follows :</p> <ol style="list-style-type: none"> 1. For manufacturing Enterprises : Investment in plant and machinery (i.e. Original

		<p>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.</p> <p>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</p> <p>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.</p> <p>Date:</p> <p>(Signature) Name- Membership number – Seal of Chartered Accountant</p>
16	Inspection	On receipt, the goods shall be subjected to inspection and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 751403363
Inconel 625 cast block		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Reverse Auction	<p>BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance 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.</p> <p>In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.</p>	
2	Weight and Packing Dimensions.	<p>The Supplier shall indicate the shipping weight (Kgs) and dimensions(L x W x H in cms) clearly along with offer.</p>	
3	Validity of Offer	<p>90 days from date of techno-commercial bid opening.</p>	
4	Price basis	<p>The prices shall be firm for entire period of contract.</p> <p>The suppliers shall indicate packing and forwarding charges,if any, separately.</p> <p>All foreign suppliers shall quote the lowest prices on 'FOB-Nearest International Airport/Sea port' basis. An amount of 3% on basic value towards freight and insurance will be added for cost comparison.</p> <p>All Indian suppliers shall quote the lowest prices on 'free delivery at BHEL R&D Stores or F.O.R destination' basis only.</p>	
5	LD Clause	<p>Failure to supply the goods and/or carryout the services within the stipulated delivery date will attract a penalty of 0.5% per week or part thereof for the value of the undelivered portion of the purchase order subject to a maximum of 10% of the total order value.In case of non acceptance to this LD Clause, 10% of basic material cost will be loaded on the quoted prices while cost comparison.(Please refer the enclosed 'Loading Factors' sheet).</p>	
6	Freight & Insurance	<p>Insurance will be arranged by BHEL in case of FCA / FOB basis supplies.In such cases ,an amount of 3% towards freight and insurance will be added for cost comparison.</p>	
7	Agency Agreement	<p>Guidelines regarding dealing with Indian agents of foreign suppliers</p> <ol style="list-style-type: none"> 1. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement. 2. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of government of India, issued from time to time. 3. The agency agreement should specify the precise relationship between the foreign oem and services to be rendered by agent / associate, whether general in nature or in relation to the particular contract, must clearly stated by the foreign supplier / Indian agent. Any payment, which the agent / associate receives in India or abroad from the oem, whether as commission or as a general retainer fee shall be brought out in record in the agreement and be made explicit in order to encurse compliance to the laws of the country. 4. Any agency commission to be paid by BHEL to the Indian agent shall be Indian currency. 5. When ever Indian agents are representing on behalf of their principals, the relevant authorization letter and agreement copy to be enclosed along with technical bid to consider the offer. 	
		<p>FOR INDIAN SUPPLIES :</p> <p>=====</p> <p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However, in</p>	

8	Delivery Period	<p>case it is not possible to meet the delivery requirement of BHEL, they shall mention in the right column the best possible delivery period</p> <p>1) From date of Purchase order =====></p> <p>2) From receipt of material / input data / drawings etc. from BHEL=====> (if applicable)</p> <p>3) From receipt of approval of design documents / drawings etc. by BHEL=====> (if applicable)</p> <p>4) Time from PDI to despatch =====> (if applicable)</p> <p>However BHEL shall inform the vendor about rejection of the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p> <p>=====</p> <p>FOR FOREIGN SUPPLIES : =====</p> <p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However, in case it is not possible to meet the delivery requirement of BHEL, they shall mention in the right column the best possible delivery period</p> <p>1. From date of Purchase order :=====></p> <p>2. From receipt of input data / drawings etc. from BHEL=====> (if applicable)</p> <p>3. From receipt of approval of design documents / drawings etc. by BHEL=====> (if applicable)</p> <p>4. From date of LC Opening=====> (if applicable)</p> <p>5. From date of PO acceptance =====> (wherever issues like export clearance etc. are involved, mentioning the reasons)</p> <p>However BHEL shall inform the vendor about rejection of the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p>	
9	Taxes and duties	<p>All Indian suppliers shall clearly mention current sales tax/VAT,Excise duty and Service Tax etc, if any,payable in addition to the quoted price and indicate applicable rates/percentage,item-wise clearly.The vendors should mention applicable Registration Number(s) specifically in their quotation.The suppliers are requested to submit their bids clearly stating applicable taxes and duties.The quoted taxes/duties will be taken for cost evaluation and order placement and no change will be entertained later except in the case of changes made by the government. Please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. However Proof of payment of service tax is required to be submitted for reimbursement of the same.</p>	

Note : All the clauses of the above format should be filled and submitted with the Techno Commercial Bid (Part-1). The filled in BHEL Commercial terms & Conditions format submitted with technical bid, responding to all the clauses duly signed with seal **only shall be considered**. Any other Commercial terms & conditions of bidders entered else where in their offer shall not be considered and are liable for rejection.

Signature of the bidder with Seal & Date

	OTHER TERMS & CONDITIONS	Volume - 1 Enquiry No 751403363
Inconel 625 cast block		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	payment terms	<p>Payment 1) Through L/C: Please note Payment through Letter of Credit (L/C) is for foreign currency payments only. Where the payments are through L/C (L/C opening charges shall be loaded for landed cost evaluation), payment of Supply value shall be 80% on dispatch and 20% on receipt and acceptance of material. The L/C shall be opened by BHEL as per following: (i) Within 30 days of receipt of order acceptance, an irrevocable unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the Supply value of PO (30% of 80%) Not earlier than 60 days before the shipment date, the value of this irrevocable unconfirmed L/C would be enhanced from 24% to 80% of the Supply value of PO. The above L/C can be negotiated after the Shipment against submission of B/L or AWB and such other documents as mentioned in the in the PO. The above L/C will be valid for a period extending 21 days beyond the shipment date for negotiation of documents. (ii) An irrevocable unconfirmed L/C will be opened for a value equal to 20% 15 days prior to receipt of item with a L.C validity of 21 days and can be enchased on submission of standard documents like Invoice, Packing List, Warranty certificates etc. as indicated in the P.O. In case of direct payment , 80% payment of Supply value shall be made within 45 days from the date of receipt of material at BHEL. Balance 20% of supply portion of PO Value will be paid against acceptance of the material by BHEL. If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment/opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till receipt and acceptance However, in no case, payment against dispatch shall exceed 90% of the PO Value. Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading shall be followed: (A) Benchmark Prime Lending Rate (BPLR) of SBI as applicable on the date of tender opening +2%, for the amount & period of relaxation sought by bidder. (B) On account of payment through LC if insisted by bidder, bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC as per prevailing bank rates.</p>	

Signature of the bidder with Seal & Date

	ITEM SPECIFICATIONS	Volume - 2 Enquiry NO 751403363
Inconel 625 cast block		

SL.No.	Item																								
1	<table border="1"> <thead> <tr> <th data-bbox="280 510 341 548">sl no</th> <th data-bbox="344 510 683 548">Descriptions</th> <th data-bbox="686 510 1024 548">BHEL Specifications</th> <th data-bbox="1027 510 1422 548">Vendor Specifications/ Deviations</th> </tr> </thead> <tbody> <tr> <td data-bbox="280 553 341 786" style="text-align: center;">1</td> <td data-bbox="344 553 683 786">SCOPE</td> <td data-bbox="686 553 1024 786">This specification includes the manufacture, inspection and supply of IN625 casting step test block weighing approx 400 kg of dimension as per Annexure # 1 conforming in general to ASTM standard A494/A494M-14 (CW6MC).</td> <td data-bbox="1027 553 1422 786"></td> </tr> <tr> <td data-bbox="280 790 341 1023" style="text-align: center;">2</td> <td data-bbox="344 790 683 1023">MELTING PROCESS</td> <td data-bbox="686 790 1024 1023">The IN625 material shall be produced by electric arc furnace (EAF) followed by secondary Argon Oxygen Decarburisation (AOD) refinement melting route. Any other suitable melting process shall be used only after approval of purchaser.</td> <td data-bbox="1027 790 1422 1023"></td> </tr> <tr> <td data-bbox="280 1028 341 1417" style="text-align: center;">3</td> <td data-bbox="344 1028 683 1417">CHEMICAL COMPOSITION</td> <td data-bbox="686 1028 1024 1417">The chemical analysis shall be made from a representative sample taken during the pouring of the master heat. The chemical composition shall comply with the requirements as mentioned below: C: 0.06 wt.% max.; Mn: 1.00 wt.% max.; Si: 1.00 wt.% max.; P: 0.015 wt.% max.; S: 0.015 wt.% max.; Mo: 8.0 - 10.0 wt.%; Fe: 5 wt.% max.; Cr: 20.0 - 23.0 wt.%; Nb: 3.15 - 4.50 wt.%; Ni: Balance;</td> <td data-bbox="1027 1028 1422 1417"></td> </tr> <tr> <td data-bbox="280 1422 341 1655" style="text-align: center;">4</td> <td data-bbox="344 1422 683 1655">HEAT TREATMENT</td> <td data-bbox="686 1422 1024 1655">The material shall be heated to 2150 deg F [1175 deg C] minimum, hold for sufficient time to heat castings to temperature, quench in water or rapid cool by other means. Vendor may refer Table 2 of A494.</td> <td data-bbox="1027 1422 1422 1655"></td> </tr> <tr> <td data-bbox="280 1659 341 2132" style="text-align: center;">5</td> <td data-bbox="344 1659 683 2132">MEHCANICAL PROPERTIES</td> <td data-bbox="686 1659 1024 2132">Tensile test (at room temperature) shall be carried out in accordance with test method ASTM E8. Test results shall conform to the following specified requirements: 0.2% Yields strength: ≥ 275 N/mm² Tensile strength: ≥ 485 N/mm² Elongation: $\geq 25\%$ Impact strength at room temperature and Hot tensile strength at 600 deg C, 650 deg C , 700 deg C and 725 deg C -</td> <td data-bbox="1027 1659 1422 2132"></td> </tr> </tbody> </table>	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations	1	SCOPE	This specification includes the manufacture, inspection and supply of IN625 casting step test block weighing approx 400 kg of dimension as per Annexure # 1 conforming in general to ASTM standard A494/A494M-14 (CW6MC).		2	MELTING PROCESS	The IN625 material shall be produced by electric arc furnace (EAF) followed by secondary Argon Oxygen Decarburisation (AOD) refinement melting route. Any other suitable melting process shall be used only after approval of purchaser.		3	CHEMICAL COMPOSITION	The chemical analysis shall be made from a representative sample taken during the pouring of the master heat. The chemical composition shall comply with the requirements as mentioned below: C: 0.06 wt.% max.; Mn: 1.00 wt.% max.; Si: 1.00 wt.% max.; P: 0.015 wt.% max.; S: 0.015 wt.% max.; Mo: 8.0 - 10.0 wt.%; Fe: 5 wt.% max.; Cr: 20.0 - 23.0 wt.%; Nb: 3.15 - 4.50 wt.%; Ni: Balance;		4	HEAT TREATMENT	The material shall be heated to 2150 deg F [1175 deg C] minimum, hold for sufficient time to heat castings to temperature, quench in water or rapid cool by other means. Vendor may refer Table 2 of A494.		5	MEHCANICAL PROPERTIES	Tensile test (at room temperature) shall be carried out in accordance with test method ASTM E8. Test results shall conform to the following specified requirements: 0.2% Yields strength: ≥ 275 N/mm ² Tensile strength: ≥ 485 N/mm ² Elongation: $\geq 25\%$ Impact strength at room temperature and Hot tensile strength at 600 deg C, 650 deg C , 700 deg C and 725 deg C -	
sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations																						
1	SCOPE	This specification includes the manufacture, inspection and supply of IN625 casting step test block weighing approx 400 kg of dimension as per Annexure # 1 conforming in general to ASTM standard A494/A494M-14 (CW6MC).																							
2	MELTING PROCESS	The IN625 material shall be produced by electric arc furnace (EAF) followed by secondary Argon Oxygen Decarburisation (AOD) refinement melting route. Any other suitable melting process shall be used only after approval of purchaser.																							
3	CHEMICAL COMPOSITION	The chemical analysis shall be made from a representative sample taken during the pouring of the master heat. The chemical composition shall comply with the requirements as mentioned below: C: 0.06 wt.% max.; Mn: 1.00 wt.% max.; Si: 1.00 wt.% max.; P: 0.015 wt.% max.; S: 0.015 wt.% max.; Mo: 8.0 - 10.0 wt.%; Fe: 5 wt.% max.; Cr: 20.0 - 23.0 wt.%; Nb: 3.15 - 4.50 wt.%; Ni: Balance;																							
4	HEAT TREATMENT	The material shall be heated to 2150 deg F [1175 deg C] minimum, hold for sufficient time to heat castings to temperature, quench in water or rapid cool by other means. Vendor may refer Table 2 of A494.																							
5	MEHCANICAL PROPERTIES	Tensile test (at room temperature) shall be carried out in accordance with test method ASTM E8. Test results shall conform to the following specified requirements: 0.2% Yields strength: ≥ 275 N/mm ² Tensile strength: ≥ 485 N/mm ² Elongation: $\geq 25\%$ Impact strength at room temperature and Hot tensile strength at 600 deg C, 650 deg C , 700 deg C and 725 deg C -																							

		for information only	
6	NON-DESTRUCTIVE EXAMINATION	<p>Each casting shall be inspected by liquid penetrant method and radiography.</p> <p>100% Radiographic examination shall be as per ASTM E94 and acceptance to level 2 as per ASTM E446/186/280.</p> <p>Liquid penetrant examination on the surface as per ASTM E165/AA0850131 acceptance AA0850132 Level I</p> <p>Linear accelerator shall be used for the X-ray evaluation of the heavier section Ni alloys castings. The density and grain size of the Ni alloy requires at least three (3) times longer exposure times compared to the equivalent steel castings.</p> <p>The details given in Appendix 7 of ASME section VIII Division 1 shall form the basis as applicable for critical castings. The Appendix, though applicable for steel castings is also applied for Inconel 625</p>	
7	REPAIR BY WELDING	<p>Repairs, if any, shall be made in accordance with ASME Section VIII Division 1. The composition of deposited weld metal shall be similar to that of the castings. This grade may require post-weld heat treatment (PWHT) after major weld repairs. For PWHT, the casting shall be heated to 2150 deg F [1175 deg C] minimum, held for sufficient time to heat castings to temperature, quenched in water or rapid cool by other means. The weld repair shall be subjected to the same quality standards as used to inspect the castings. Repair procedure shall be recorded and reported.</p> <p>Weld repairs shall be considered major in the case of a casting when the depth of the cavity after preparation for repair exceeds 20% of the actual wall thickness, or 1 in. [25 mm], whichever is smaller, or when the extent of the cavity exceeds approximately 10 inch²[65 cm²]. All other weld repairs shall be considered minor. Major and minor weld repairs shall be subject to the same quality standards as are used to inspect the castings.</p>	
		The castings shall not be	

8	QUALITY	peened, plugged, or impregnated to stop leaks. Internal chills and chaplets may be used in the manufacture of castings. However, the chills, chaplets and affected cast material must be completely removed.	
9	STANDARD TESTS	The following reports shall be supplied prior to delivery of casting. <ul style="list-style-type: none"> • Chemical composition • Radiographic examination • Liquid Penetrant examination • Mechanical tests including tensile and hardness test • Impact tests (for information) 	
10	DIMENSIONS	As per Annexure 1 attached; Dimensional tolerance: 5 %	
11	QUANTITY	~ 1200 kg (+/- 10%) (3 blocks) (If chemical composition within the specified limits is different for 3 blocks, all test certificates should be furnished)	
12	Casting Capability	Vendors having capability to manufacture steam turbine casings weighing approx 15,000 to 30,000 kgs should only quote. They should also furnish the documents regarding their capabilities and experience as these casting blocks are for testing and evaluation purpose only. The actual casing castings will be procured based on the test results of these cast blocks.	
13	Pricing Instruction	Vendor should also quote the price of IN625 on per kg basis to enable us to accept the exact supplied weight of IN625 Step cast block.	
	Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.	

* Vendors are advised to write specifications in detail and not to write like 'Complied/ Yes / No ' etc. in specifications.

Signature of the bidder with Seal & Date

BHEL R&D
RD:DP:MPX:F-22

LOADING FACTORS



NOTE : IN CASE OF DEVIATION TO BHEL TENDER SPECIFIED TERMS, LOADING FACTOR INDICATED IN FOLLOWING TABLE WILL BE APPLIED TO QUOTED PRICE WHILE EVALUATING THE LOWEST QUOTE

A. FOR INDIGENOUS PURCHASES					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
				SAME	NO LOADING
A.1	SUPPLY OF THE MATERIAL	PAYMENT TERMS	DIRECT PAYMENT: 80% PAYMENT OF SUPPLY VALUE SHALL BE MADE WITHIN 45 DAYS FROM THE DATE OF RECEIPT OF MATERIAL AT BHEL. BALANCE 20% OF SUPPLY VALUE WILL BE ON RECEIPT AND ACCEPTANCE OF THE MATERIAL.	ANY OTHER	SUBMIT BANK GUARANTEE AT THE TIME OF PAYMENT IN THE PRESCRIBED FORMAT OF THE AMOUNT EXCEEDING 80% OF PO VALUE, VALID TILL ACCEPTANCE OF MATERIAL. HOWEVER IN NO CASE PAYMENT AGAINST DISPATCH SHALL EXCEED 90% OF THE PO VALUE. ADDITIONALLY, LOADING AT BENCHMARK PRIME LENDING RATE (BPLR) OF SBI AS APPLICABLE ON THE SCHEDULED DATE OF TENDER OPENING+2%, FOR THE AMOUNT & PERIOD OF RELAXATION SOUGHT BY BIDDER

B. FOR FOREIGN PURCHASES (IMPORTED)					
				SAME	NO LOADING
B1	SUPPLY OF THE MATERIAL	PAYMENT TERMS	PAYMENT THROUGH LC (LC OPENING CHARGES ARE TO BE LOADED), PAYMENT OF SUPPLY VALUE SHALL BE 80% ON DISPATCH AND 20% ON RECEIPT AND ACCEPTANCE OF THE MATERIAL	ANY OTHER	SUBMIT BANK GUARANTEE AT THE TIME OF OPENING OF LC IN THE PRESCRIBED FORMAT OF THE AMOUNT EXCEEDING 80% OF PO VALUE, VALID TILL ACCEPTANCE OF MATERIAL. HOWEVER IN NO CASE PAYMENT AGAINST DISPATCH SHALL EXCEED 90% OF THE PO VALUE ADDITIONALLY,LOADING AT BENCHMARK PRIME LENDING RATE(BPLR) OF SBI AS APPLICABLE ON THE SCHEDULED DATE OF TENDER OPENING+2%, FOR THE AMOUNT & PERIOD OF RELAXATION SOUGHT BY BIDDER

C. PENALTY FOR DELAYED DELIVERY (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
C	LD CLAUSE	IN THE EVENT OF DELAY IN AGREED CONTRACTUAL DELIVERY, PENALTY OF 0.5% (HALF PERCENT) PER WEEK BUT LIMITED TO A MAX OF 10% OF TOTAL ORDER VALUE WILL BE APPLICABLE	AGREED	NIL
			IF NOT AGREED	LOADING @ 10% OF THE BASIC MATERIAL COST
			IF AGREED FOR X%	LOADING @ (10-X)% OF THE BASIC MATERIAL COST
D. GUARANTEE/WARRANTY PERIOD (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
D	GUARANTEE/WARRANTY PERIOD	STANDARD GUARANTEE/WARRANTY PERIOD(X)	AGREED	NIL
		MINIMUM QUOTED GUARANTEE / WARRANTY PERIOD(Y)	NOT AGREED FOR STIPULATED BUT AGREED FOR DESIRED GUARANTEE/WARRANTY(Y)	LOADING @ 10 % OF THE ORDER VALUE PER ANNUM FOR THE REDUCED GUARANTEE PERIOD (X-Y)

BHEL R&D

Terms & Conditions of Reverse Auction



Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid? in the Reverse Auction. Non-submission of „online sealed bid? by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL?s standard practice.
12. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction?, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS
(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Vendor Code (to be filled by BHEL)

Type of Request (Tick one)	NEW	CHANGE
1 Company Name		
2 Address		
3 City with PIN Code		
4 State		
5 PAN Number		
6 TIN/ VAT No.		
7 CST No.		
8 Service Tax No.		
9 Name of Contact Person		
10 Mobile number		
11 Ph. no. with STD Code		
12 Fax No. with STD Code		
13 Email ID		
14 Website (URL)		

BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :
Company
Seal

Authorised Signatory
Designation :



**Corp. R&D
DIVISION
VIKAS
NAGAR,**

RD:MPX:F-13

Bharat Heavy Electricals Limited

HYDERABAD- 500 093 (INDIA)

Ph: 040 - 23772704, Fax: 040 - 23770698, email: mpx@bhelrnd.co.in

VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

1.0 VENDOR PROFILE:

1.1 Name and address of the vendor:

Phone Nos.:

Fax No.:

Email: 1. _____ 2. _____

1.2 Local representative name & address in Hyderabad/Secundrabad :

Phone Nos.:

Fax No.:

Email:

Contact Person:

Mobile No:

2.0 TYPE OF ORGANISATION:

PROPRIETORSHIP	Company:	Sister Concern (mention vendor registration number of main organization)	
Partnership	CORPORATION	Small Scale Industry	ANY OTHER(Please specify)

In case of SSI unit, copy of registration to be enclosed. It is requested that MSME registration certificate to be enclosed

3.0 ANNUAL TURN OVER:

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year (200 - 0)	
3	Prior Year (200 - 0)	

4.0 NAME AND ADDRESS OF THE BANKER:

- 4.1 Bank Name
4.2 Branch name
4.3 Account number
4.4 Account Type
4.5 MICR Code:

4.6 IFSC Code(RTGS/NEFT):

4.7 Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

5.0 REGISTRATION PARTICULARS(relevant copies to be enclosed)

5.1 IT Permanent Account No.(PAN):

5.2 State Sales Tax/VAT Registration No:

5.3 Central Sales Tax Registration No:

5.4 ED Registration No:

5.5 Service Tax Registration No:

5.6 PF Account No:

5.7 Labour Licence No:

5.8 ESI Account No:

6.0 CONTACT PERSON: S/Sri:

Designation:

Phone / Mobile No:

7.0 TOTAL NUMBER OF EMPLOYEES:

Graduates (Engr/Scientists/Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

8.0 LIST OF PRODUCTS/ SERVICES OFFERED:

#	Products/ Services	Capacity
1		
2		
3		
4		
5		
6		

9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		
3		
4		
5		
6		
7		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No	Year
1			
2			
3			
4			

12.0 ANY OTHER INFORMATION :DECLARATION:

The information furnished above is true and authentic.

(CEO / PROPRIETOR)

SEAL:

DATE:

Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/additional information on registration.

Instructions

1. Fill all items. Please mention "N.A." for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:MPX:F-14

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR.WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE".INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

1.0 GENERAL INFORMATION:

1.1 NAME OF COMPANY

1.2 DETAILS OF HEAD OFFICE:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.3 DETAILS OF FACTORY/WORKS:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.4 DETAILS OF MARKETING AGENT

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S)
 FOR PRODUCT OFFERED

NAME(S) :
 OFFICIAL CPACITY :
 ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING
 SPECIFICATION AND RANGE OFFERED
 FOR REGISTRTION



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

Ph: 040 – 23772704, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

RD:MPX:F-13

GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- v. Whenever Indian agents are representing on behalf of their principals the relevant authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.

