

TENDER DETAILS

<i>ENQUIRY No.</i>	1402100012	<i>ENQUIRY DATE</i>	24.03.2021.
<i>DESCRIPTION</i>	<i>Supply of Venturi Nozzle Forgings as per the specification SA182 F316L</i>	<i>DUE DATE</i>	21.04.2021

Item Sl. No.	Description	Material Code	Unit	Quantity
10	Supply of Venturi Nozzle Forgings as per specification SA182 F316L and as per drawing 3-93-170-05299 Rev 00	D15730233002	Numbers	2

ATTACHMENTS:

Annexure A - Enquiry Terms and Conditions

Special Condition Annexure A - Pre-Qualification Criteria

Annexure C - Vendor details

"LD clause has to be confirmed without fail."

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

SPECIAL CONDITION ANNEXURE - A

(PR No. 128739828)

{For manufacture & supply of Venturi Nozzle (Forging)}

22/02/21
M. PALANIVELU
Sr. Manager
Matl. Ping & Sub-Contg / ATP
BHEL, TRICHY - 620 014.

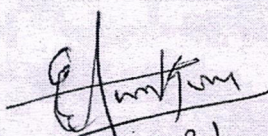
1. The indented items are required for NPCIL/Gorakhpur Haryana Anu Vidyut Pariyojana- 1&2 (GHAVP - 1&2) - 700MWe Steam Generator Project.
2. There shall be Two Part Tender. Open tender will be floated.
3. End Usage and End User Certificates will not be provided.
4. Supply of forged rods conforming to specification SA182F316L in finish machined condition as per Drawing No.3-93-170-05299/R00 and as per Generic Quality Plan Doc. No. SQP-SA182F316L Rev 01. Supplier to confirm.
5. Supplier shall give confirmation for Generic Quality Plan Doc. No. SQP-SA182F316L Rev 01. Deviations (if any) shall be mentioned in the offer itself.
6. Dimensions and notes given in the forging drawing 3-93-170-05299/R00 shall be properly read and confirmed by the Supplier.
7. For offer acceptance, suppliers should have the capability and experience to produce the Austenitic Stainless Steel forgings. Also, the Supplier should have supplied the Austenitic Stainless Steel forgings for nuclear application / Nuclear Power Corporation of India Limited / any Thermal Power station. As a documentary proof of supplier's experience in manufacturing the Austenitic Stainless Steel forgings, signed Test Certificates (signed by Customer/TPI), PO copy & Shipping release document/Supply Invoice Copy/Bill of Lading/Delivery Challan with specifications and details of Customer etc. shall be submitted along with the offer.
8. Due to stringent quality requirements, offers from traders/dealers/distributors/stockist shall not be entertained and will not be considered for evaluation.
9. Quantity given in the indent may increase or decrease and will depend on the requirements of BHEL & NPCIL. Quantity being procured will be finalized before price bid opening.
10. Offers received will be evaluated by BHEL and NPCIL. Final acceptance of the offers will be based on BHEL & NPCIL recommendation.

N.R.
26/02/21

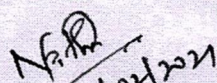
26.02.2021

SEIKHOLIEN HAOKIP
Deputy Manager
ATP / Material Planning
BHEL, TRICHY - 620 014

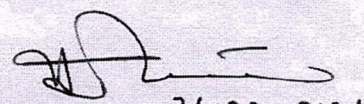
11. Supplier has to submit Quality Documents (QAP – Quality Assurance Plan) in line with the Doc.No. SQP-SA182F316L Rev.01, Manufacturing Process Plan and associated procedures, Report Formats, Heat Treatment Plan, Material Sampling and Testing Plan (MSTP) and related test procedures along with NDE documents (UT & PT Procedures, Report Formats and technique sheets) for approval from BHEL & NPCIL after awarding the contract.
12. The actual production of material is permitted only after approval of QAP and test procedures by BHEL and NPCIL.
13. Inspection agencies are BHEL and NPCIL.
14. Chemical composition and mechanical tests shall be carried out in laboratories certified as per ISO/IEC 17025 or NABL/government approved laboratories.
15. Supplier shall submit Test Certificates of finished material for BHEL review. Dispatch clearance will be given after acceptance of Test Certificates by BHEL & NPCIL.
16. Supplier shall submit- (i) Test Certificates and Reports, HT Chart (ii) copies of the approved quality documents, records and test procedures, (iii) Non-conformity NCR (if any) and (iv) Drawings etc. in bound volume along with the supply of the indented items. The supplier shall be responsible for preparation and issue of all certificates, reports and documents which shall be certified by "BHEL" & "NPCIL". Such certified final documents shall form part of history dockets and shall be supplied in bound volumes (3 copies) with proper identification. Final documentation shall also be submitted in soft form (pdf format) with proper indexing.


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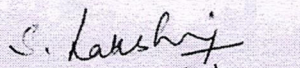
E. ARUN KUMAR
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BHEL, TRICHY - 620 014
ATP/ENGINEERING


26/02/2021

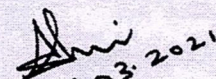
O.R. NITHIN
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QUALITY ASSURANCE


26.02.2021

SEIKHOLIEN HAAKIP
Deputy Manager
ATP / Material Planning
BHEL, TRICHY - 620 014
MATERIAL PLANNING


27/02/21

S. LAKSHMI
Deputy General Manager
Quality Assurance
BHEL, Trichy - 620 014.


01.03.2021

ASHWIN KUMAR MAROLI
Manager
Advanced Technology Products
BHEL, TRICHY - 620 014

BHARAT HEAVY ELECTRICALS LIMITED

MM/RM/PURCHASE/C&F

BHEL / TRICHY-620 014.

**ANNEXURE-A-Rev 01
ENQ NO-1402100012**

Date: 22-03-2021

Enquiry Terms & Conditions for Supply of Venturi Nozzle Forgings

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 Comments
01	<u>Material specification:</u> Supply of Venturi Nozzle Forgings shall be made strictly as per Specification SA182F316L, Special Condition Annexure A and Drawing as mentioned in the enquiry.	
02	<u>Specification, Size & Quantity:</u> a) All the Venturi Nozzle Forgings are to be supplied fully meeting the Specification SA182F316L, Special Condition Annexure A and Drawing . If there is any deviation, the same should be mentioned clearly in the offer itself. b) Supplier has to provide acceptance for the Suggestive Quality plan furnished by BHEL. c) Inspection agencies are BHEL & NPCIL. d) Point wise confirmation for Special Condition Annexure A (Pre-Qualification Criteria), Drawing and Quality Action Plan (QAP) are to be mandatorily filled & signed by the bidder and to be uploaded in NIC portal (https://eprocurebhel.co.in) along with Technical Bid (Part 1 bid). e) Documents to establish previous experience for the supply of Venturi Nozzle Forgings to nuclear power plants to be submitted along with the bid.	
03	Vendor's confirmation for any terms & conditions should be uniform throughout the offer. Terms agreed in Part-1 Techno commercial Bid is final, Terms mentioned anywhere else by the bidder will not be considered	
04	<u>Bid Submission:</u> a) The tender will be operated on Two part bids basis i.e. Part I -Techno-Commercial Bid & Part II- Price Bid in NIC PORTAL (https://eprocurebhel.co.in) ONLY. b) Part-I Techno-Commercial Bid: It contains Technical details, specifications, commercial terms and conditions, Taxes, delivery terms, delivery schedule, validity of offer, payment terms (except price details), acceptance for LD clause, RP clause etc. as per Annexure-A. c) Part-II Price Bid : It contains the input form for quoting price for all the enquired items in NIC (https://eprocurebhel.co.in). d) This Tender is hosted in EPS portal & offer to be submitted through EPS portal only. You are requested to submit your 2 parts offer before due date & time of the enquiry through NIC (https://eprocurebhel.co.in) only.	
05	<u>Validity:</u> The offers shall be kept open for acceptance for 180 days from the date of Tender opening. Once the tenders are submitted, rates cannot be changed on any grounds.	
06	<u>Delivery:</u> The offer shall clearly indicate delivery period in fixed number of Weeks/Months from the date of Purchase Order.	

07	<u>Goods and Service Tax (GST)</u> <u>Indigenous suppliers:</u> 1. Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST. 2. Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc. 3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). 4. Invoices will be processed only upon completion of statutory requirement and further subject to following: a. Vendor declaring such invoice in Form GST ANX-1 b. Receipt of Goods or Services and Tax invoice by BHEL 5. As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2). 6. In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL. 7. In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor 8. In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor. 9. Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor. 10. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number. 11. GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor. GST CREDIT: Suppliers are advised to get registered to GSTN portal. Tenderer under "GST credit" shall be preferred. <u>Import Suppliers:</u> 1. Supplier shall mention the HSN code of each item quoted by them in the offer. The HSN shall be mentioned in the Invoice also for each item without fail. Since GST is implemented, the taxes & duties will prevail as per the government notification/ guidelines. Our Provisional GST registration no. is 33AAACB4146P2ZL. However, it will be mandatory to confirm from BHEL for this mentioned GST no. Suppliers may quote their GST no with valid proof in the quotation. Also before quoting of tender it is suggested to consider all the factors in line with GST guidelines for input tax credit to arrive ranking of quoted suppliers.	
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08 Terms of Delivery:

A. INDIGENOUS:

- a) Bidders should submit their offer on FOR Destination -BHEL Stores, Trichy basis. The quote should be inclusive of all charges, including testing, packing & forwarding, inspection, Insurance etc. (Ex-Works offers will not be considered).
- b) The soft copies of the Invoice, LR copy & Test certificates shall be forwarded to BHEL immediately after dispatch.

B. IMPORTS:

- Import vendors to submit offer on CFR (Cost & Freight), Chennai port (LIFO – 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**” shall be specified clearly in the offer.

FOR CFR INCO TERMS – CONTAINERIZED CARGO

- a) For CFR terms, shipped through containers (suppliers shall clearly specify in the offer) it would be presumed by BHEL that the freight charges quoted on LIFO (Liner in Liner out) basis including extra charges, if any, like Container Imbalance Charge, Trade imbalance charge or any other charges payable to the liner. No other charges other than the quoted freight rate will be paid by BHEL except applicable Terminal handling charge, Container cleaning charge, DO charge to shipping liner at discharge port. 14 free days for container 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) Bill of lading should bear the endorsement that “14 free days for container detention is applicable”.

INFORMATION TO IMPORT SUPPLIERS

- A. Indian Customs has imposed a penalty on late filing of Bill of Entries (Air/Sea Shipments) by the importer. The maximum free time allowed is 24 hrs from the time of arrival of cargo at final port of discharge. At present penalty is Rs.5000/- per day (for Initial 03 days) & Rs.10000/- per day (thereafter).

- a) Hence the supplier shall submit the Non-Negotiable Documents (Bill of Lading, Commercial Invoice, Packing List, Certificate of Origin, etc.) either by email or post/courier to BHEL well before the landing of cargo at final port of discharge.
- b) In case of any penalty due to late filing of Bill of entry for reasons attributable to suppliers (as listed below), the same will be recovered from the bills of supplier:
 - i. Non availability of Non-Negotiable Documents (NNDs) before the cargo arrival
 - ii. Discrepancy in documents
 - iii. Short landing of Consignments (For shipments on CFR – Chennai Port)

- B. All the shipments for the contracts (POs) finalized on CFR -Chennai Port basis

- a. Delivery Orders involving multiple agencies like liners/freight forwarders are not allowed. To avoid any delay, BHEL prefers Single agency office at the final discharge Port (Chennai) for issuing the Delivery Order to BHEL.
- b. The detention/demurrage charges arise due to the delay in collection of Delivery Orders from multiple agencies of liner/freight forwarder also whose offices are not at available Chennai, the same amount will be deducted from Vendor’s bills only.
- c. Apart from the Terminal Handling Charges, Container cleaning Charges & Delivery Order Charges at final port of discharge, any other charges will not be borne by BHEL.
- d. The liner/freight forwarders shall be informed by the Vendor not to claim any additional charges (like charges listed below) for issuing Delivery Order. In case if the liner/freight forwarder claims such charges, the same amount will be deducted from the Vendor bills with/without any prior intimation in order to avoid the delay in Customs clearance. The likely additional/hidden charges are listed below.

CIC	-	Container Imbalance Charges/Surcharges
EIC	-	Equipment Imbalance Charge/Surcharges
CAF	-	Container/Currency Adjustment Factor
BAF	-	Bunker adjustment Factor
RDS	-	Rupee Depreciation Surcharge
CDS	-	Currency Depreciation Surcharge

09	<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. - 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. - 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". - Otherwise, No-objection Certificate shall be issued to the Liner, authorizing BHEL to get the Delivery Order without producing the Original Bill of Lading. - 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.	
10	<u>Payment terms:</u> <u>Indigenous:</u> BHEL Payment term is 100% direct EFT payment after 60 days from the date of receipt and acceptance of materials. <u>Import:</u> BHEL Payment term is 100% payment on CAD basis after 60 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account. If supplier insists for LC, only Usance LC with 60 days' credit will be opened one month prior to material readiness, further loading @ 1.5% on the offered value will be considered. Hence supplier shall intimate the material readiness accordingly for opening of L.C. LC validity period will be 90 days and for any extension, applicable charges will be to supplier's account. <u>New Suppliers:</u> For new suppliers not registered with BHEL, Trichy for the product, Payment shall be made 60 days after receipt and acceptance of materials. In case of foreign supplier, first lot of mutually agreed quantity shall be supplied with payment as CAD basis after 60 days from the date of receipt & acceptance of material. If insisted for LC, after acceptance of first lot, only Usance LC with 60 days' credit will be opened one month prior to material readiness.	
11	<u>Liquidated Damages:</u> - Penalty will be levied @ 0.5 % of the undelivered portion per week of delay or part thereof subject to a maximum of 10% of the total order value. - 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). - Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number. - IMPORT: For CFR terms, BL date will be considered for LD calculation. - INDIGENOUS: For "FOR Delivery terms", Lorry way bill date will be taken for LD calculation.	
12	<u>Risk Purchase clause:</u> 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 dispatch 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. The value under Risk purchase clause shall be calculated as follows:	

	Risk & Cost Amount= [(A-B) + (A x H/100)] Where, i. A= Value of Balance scope of Work/ Supply (*) as per rates of new contract ii. B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any. iv. H = Overhead Factor shall be taken as 5 v. In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero). vi. Balance scope of work/ supply Difference of Tendered/Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of PO/Contract', shall be taken as balance scope of Supply for calculating risk & cost amount. Note: In case vendor fails to fulfil any of the PO / Contract obligations as per PO/Contract, PO/ contract shall be cancelled and appropriate cost shall be deducted from the vendor’s pending bills in BHEL Trichy (or) across the BHEL units.											
13	<u>Performance Bank Guarantee (PBG):</u> 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 format 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 earlier, 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. If the supplier agrees for PBG submission and fails to submit PBG during material supply, 10% of the payment will be retained for the PBG period.											
14	<u>Warrantee / Guarantee:</u> Supplier to accept guarantee/warrantee of “18 months from dispatch or 12 months from commissioning, whichever is earlier”. Any deviation to this may lead to rejection of the offer.											
15	<u>Non-Disclosure Agreement(NDA):</u> The bidders shall enter into the Non-disclosure agreement totally voluntarily, with full knowledge of its meaning and without duress. (Format attached).											
16	<u>Patent Right</u> 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	PARTICULARS TO BE FURNISHED BY FOREIGN VENDORS FOR EVALUATION OF BIDS WITH CUSTOMS DUTY BENEFIT <table><tr><td>A. Whether CEPA or any other agreement/treaty between respective Governments/Countries exists and the same is applicable for your supplies w.r.t this Enquired Items/tender.</td><td>YES / NO</td></tr><tr><td>B. If yes, mention the Concessional Customs Duty (Such Duty Benefits)</td><td>%</td></tr><tr><td>C. Documentary proof for the applicable Concessional Customs Duty (eg. CEPA or other agreement) shall be submitted along with the Part-1 bid.</td><td>SUBMITTED/ NOT SUBMITTED</td></tr><tr><td>D. Relevant documents to avail the above concessional duty benefits by BHEL shall be submitted by the supplier along with dispatch documents</td><td>CONFIRMED/ NOT CONFIRMED</td></tr><tr><td>E. In the event of seller failing to provide appropriate documents along with dispatch documents for purchasers to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the seller’s account.</td><td>CONFIRMED/ NOT CONFIRMED</td></tr></table> Note: Evaluation of the Price bids will be based on the above details only and unless mentioned/furnished by the vendor, Customs Duty benefit will not be applied for evaluation purposes.	A. Whether CEPA or any other agreement/treaty between respective Governments/Countries exists and the same is applicable for your supplies w.r.t this Enquired Items/tender.	YES / NO	B. If yes, mention the Concessional Customs Duty (Such Duty Benefits)	%	C. Documentary proof for the applicable Concessional Customs Duty (eg. CEPA or other agreement) shall be submitted along with the Part-1 bid.	SUBMITTED/ NOT SUBMITTED	D. Relevant documents to avail the above concessional duty benefits by BHEL shall be submitted by the supplier along with dispatch documents	CONFIRMED/ NOT CONFIRMED	E. In the event of seller failing to provide appropriate documents along with dispatch documents for purchasers to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the seller’s account.	CONFIRMED/ NOT CONFIRMED	
A. Whether CEPA or any other agreement/treaty between respective Governments/Countries exists and the same is applicable for your supplies w.r.t this Enquired Items/tender.	YES / NO											
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D. Relevant documents to avail the above concessional duty benefits by BHEL shall be submitted by the supplier along with dispatch documents	CONFIRMED/ NOT CONFIRMED											
E. In the event of seller failing to provide appropriate documents along with dispatch documents for purchasers to avail disclosed concessional duty benefits in India, financial loss, so incurred, will be to the seller’s account.	CONFIRMED/ NOT CONFIRMED											
18	<u>Role of Agents</u> a. BHEL strongly discourages the engagement of Agents in India by foreign principals, to deal with BHEL, in BHEL’s tenders. 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. b. 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	<u>Agency Commission:</u> ➤ 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	<u>Evaluation Criteria:</u> 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) <u>Indigenous Vendors:</u> 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. (SGST, CGST, UGST & IGST) on (BASE PRICE+GST) 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 GST taxes, hence the same is excluded for arriving at the landed cost. II) <u>Import Vendors:</u> Total Landed cost = CFR Rate in INR (A) + Applicable Duties (B) + Incidental Charges (C) + Loading for Container Shipment (D) + Loading for payment term & LD (E) 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. Customs duty, Safe guard duty (as per the notification No 02/2014-Customs (SG) dated 13th August 2014) and antidumping duty (as per the notification No 18/2016-Customs (ADD) dated 17.05.2016) as applicable will be added to the INR price. C. Incidental charges of 2.86% 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. D. 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. E. Loading for payment terms & Non-acceptance of Liquidated Damages (LD) will be added to the CFR value for arriving at the landed cost. Note: “In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L1 bidders. In case more than one bidder happens to occupy the L1 status even after soliciting discounts, the L1 bidder shall be decided by a toss/draw of lots, in the presence of the respective L1 bidders or their representatives. Ranking will be done accordingly. BHEL decision in such situations shall be final and binding”.	
21	<u>General condition:</u> 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) Three sets of documents containing Test certificates, Copies of the approved quality documents and test procedures, DCR and Drawings, etc must be provided along with the supply of Raw materials. Dispatch clearance for material shall be given after acceptance of TC's by BHEL & NPCIL. c) Supplier has to submit Quality documents and related test procedures for approval. d) For Indigenous supply, chemical composition and mechanical test are to be carried out in NABL accredited laboratory only e) We required the shipment of forgings to be as per the dates mentioned in the enquiry. f) All the items in the enquiry will be evaluated and ordered on package basis. g) Multiple PO may also be placed considering the applicable duty structure of the respective requirement/Qty. h) No revision of prices will be entertained after the tenders are opened. i) 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. j) BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed. k) 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. l) 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. m) 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. n) Offer will be evaluated based on Landed cost to BHEL- Trichy on package basis. o) No payment will be made for the excess quantity. p) Offer should be submitted only as per the Unit of Measurement (UOM) specified in the enquiry. q) Material shall be physically weighed before stuffing them into container and the same shall be incorporated in BL and packing slip. r) 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. s) All documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder. t) Documents not signed and stamped by the authorized signatory of the bidder shall not be accepted and considered for registration / evaluation of the bid etc. u) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order, shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped as mentioned above. v) The bidder shall submit his response through bid submission to the tender on EPS website at https://eprocurebhel.co.in. The bidder would be required to register on the EPS website at https://eprocurebhel.co.in and submit their bids online. SEALED COVER BIDS / E-MAILS / FAX / MANUAL OFFERS WILL NOT BE ACCEPTED. For any clarification you can contact to rmeqa@bhel.in, thambi@bhel.in Contact nos. 04312575458 / 04312577492	
22	<u>Fraud Prevention Policy</u> "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."	

23	Authorization for participation in EPS portal through DSC: E-Tender. Participation requirements: 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://eprocurebhel.co.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. For foreign Principal 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/. For Indian agent 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.	
24	<u>Cartel Formation:</u> 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.	
25	<u>Suspension of Business Dealings with Suppliers/Contractors:</u> The offers of the bidders who are under suspension as also 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 web site www.bhel.com. Integrity commitment, performance of the contract and punitive action thereof: 1.Commitment by BHEL BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity. 2.Commitment by Bidder/ Supplier/ Contractor - The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India. - The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL. - The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL. If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on www. bhel.com and/or under applicable legal provisions. Guidelines for suspension of business dealings___is available in the webpage: http://www.bhel.com/vender_registration/vender.php.	
26	<u>Resolution of Disputes:</u> - 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. - 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/-) - Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., BHEL Trichy. - Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., Trichy, India.	

27	<u>In the event of Force Majeure:</u> - 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. - 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. - 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. - 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.	
28	<u>Execution of the order:</u> - 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. - 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 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.	
29	<u>Financial Documents:</u> - Indigenous Suppliers shall submit audited copies of annual reports (Balance Sheets), Profit & Loss statement for last four years (or from date of incorporation whichever is less). - Import suppliers shall submit latest reports from reputed third party business rating agency like Credit reform, Dun & Bradstreet, etc..	
30	<u>Special Provisions for Micro and Small Enterprises (MSE) bidders registered as per MSME act:</u> (Subject to participating MSE vendors should meet the tender requirements of BHEL) ➤ As per Gazette Notification no. S.O. 2119(E) dated 26.06.2020 issued by Ministry of MSME applicable/existing Micro and small suppliers are requested to get registered with Udyam Registration portal and share us the Udyam registration no along with Udyam registration certificate. ➤ 25% of the tendered quantity is earmarked for MSE suppliers in this tender, subject to participating MSE Vendors should meet the tender requirements of BHEL. In case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE vendor within the "L1+15% price band", the supply shall be shared proportionately. ➤ In the event of Non MSE supplier becoming L1 and MSE supplier quotes within the price band of L1+15% and it is not possible to split the tendered quantity on account of reasons like customer contract requirement/technical requirements, then 100% of the quantity will be offered to MSE suppliers subject to acceptance of L1 price by MSE supplier. ➤ Counter offering of L1 rate will not be made with any MSE vendor whose quoted rate is more than the price band of L1+15%.	

	➤ Payment to MSE vendor will be as per the applicable provisions of the MSMED Act 2006. ➤ If L1 offer is from a Micro / Small enterprise, the 25% earmarking provision is not applicable. ➤ Out of the 25% tendered quantity reserved for MSE suppliers, 6.25% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs. Apart from this 3% shall be earmarked for procurement from MSE owned by Women entrepreneurs. ➤ In case of any change in the MSE status of the bidder, it shall be the responsibility of the bidder to notify the change as a part of the bid document. If at a later date it comes to the knowledge of BHEL, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the bidder as per the procurement policy of BHEL. ➤ MSE suppliers can avail the intended benefits only if they submit along with the offer, Valid EM-II certificate or valid NSIC certificate or UAM certificate along with attested copy of a CA certificate (Format enclosed as below) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. Documents should be notarized or attested by a Gazetted officer. However, credentials of all MSE suppliers will be verified before considering the intended benefits for MSE suppliers at the time of tender evaluation. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.	
31	<u>Preference to Make in India:</u> ➤ For this procurement, the local content to categorize a supplier as a class I local supplier/class II local supplier /Non-local supplier and purchase preference to class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent Orders issued by the respective Nodal Ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of part II bids against this NIT.	
32	<u>Restrictions for Procurement from a country sharing its land border with India</u> ➤ For this procurement, Public procurement order dated 23.07.2020 regarding restrictions under rule 144 (xi) of general financial rules 2017 is applicable, Any bidder from a country which shares land border with India will be eligible to participate only if the bidder is registered with the competent authority.	
33	<u>Enclosures:</u> a) Enquiry b) Technical Specification SA182F316L c) Special Condition Annexure A d) Drawing e) Suggestive Quality plan f) Non-Disclosure agreement. g) Performance bank guarantee	
M THAMBIDUR AI Digitally signed by M THAMBIDURAI Date: 2021.03.23 17:07:27 +05'30' (On behalf of BHEL)		<u>SIGNED BY MANUFACTURER / MILL</u> Name of Mill: Designation / Department: Seal & Signature

Annexure C

VENDOR DETAILS

SL NO	DESCRIPTION	To be filled by bidder
1	VENDOR NAME	
2	QUOTATION REFERENCE	
3	QUOTATION DATE	
4	TELE, MOBILE NO	
5	FIRM MAIL ID	
6	CONTACT PERSON	
7	OFFICE ADDRESS	
8	ORDER TO BE PLACED ON	
9	COUNTRY OF ORIGIN	
10	PORT OF LOADING	
11	PORT OF DISCHARGE	

Vendor Seal & Sign

Supplier's Name and Address		Quality Plan for SA182F316L Solid Forgings for Venturi Nozzle					Doc No: SQP-SA182F316L_Rev 01 Project: GHAVP 18 & 2 W.O : D157 to D160-001-1-93-171 P.O No: To be filled									
Supplier's Name and Address		Item : SA182F316L forgings Sub-system: Steam Generator		QP No.: To be filled by Supplier Rev.No.: To be filled by Supplier Date: To be filled by Supplier Page No: 1 of 5		Reference Document		Acceptance Norms		Format of Record		Agency		Remarks		
Sl. No	Component & Operations	Characteristics	Type of Check	Quantum Of check	6.	7.	8.	D*	M	B	N					
1.	2.	3.	4.	5.	6.	7.	8.	D*	9. **				10.			
1.0 Raw Material :																
1.1	Steel Melting	Temperature	Record Verification	100%	ASME Sec IIA-SA182		TC	✓	P	R	R	---				
1.2	Ladle Analysis	Chemistry	Chemical analysis	1/Melt	ASME Sec IIA-SA182F316L		TC	✓	P	R	R	---				
1.3	Semi Product ingot casting	Free from defects	Visual/Record verification	100%	ASME Sec IIA-SA182		--	--	P	--	--	---				
2.0 In process Controls :																
2.1	Forging	Forging	Record verification	100%	ASME Sec IIA-SA182		TC	✓	P	R	--	---				
2.2	Marking after Forging	Identifications	Verification and Visual	100%	ASME Sec IIA-SA182		RD	--	P	R	R	---				
2.3	Heat Treatment	R.O.H, Soaking Temp & Time, R.O.C	Review of HT Chart	100%	ASME Sec IIA-SA182F316L HT Plan: To be submitted		TC	✓	P	H	H	Chart shall be submitted along with TC				
2.4	Descaling (if reqd.)	Surface Inspection, Free from Visual Defects	Visual	100%	Free from Visual Defects		RD	✓	P	--	--	---				
2.5	Identification of Test coupon and Cutting	Location and orientation	Visual & Measurement	100%	ASME Sec IIA-SA182 MSTP: To be submitted		RD	✓	P	H	H	---				
LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: SUPPLIER B: BHEL, N: NPCIL/TPI P: PERFORM R: REVIEW W: WITNESS AND H: HOLD TC: TEST CERTIFICATE RD: RECORD																
Prepared		Reviewed & Approved		Reviewed & Approved												
SUPPLIER'S NAME: To be filled		BHEL		NPCIL												

Neelam

Supplier's Name and Address		Quality Plan for SA182F316L Solid Forgings for Venturi Nozzle				Doc No: SQP-SA182F316L_Rev 01 Project: GHAVP 1 & 2 W.O : D157 to D160-001-1-93-171 P.O No: To be filled			
Supplier's Name and Address		Item : SA182F316L forgings Sub-system: Steam Generator		QP No.: To be filled by Supplier Rev.No.: To be filled by Supplier Date: To be filled by Supplier Page No.2 of 5					
2.5a	Machining to Final Dimension	Dimensions	Visual & Measurement	100%	Drawing/ P.O: To be filled	---	---	P	---
2.6	Pickling and Passivation of Rods	Completeness	Completeness	100%	ASTM A380	TC	--	P	R
2.7	Liquid Penetrant Inspection	Surface breaking defects	LPI	100%	ASTM E 165, ASME Sec-III NB-2546 Acceptance: ASME Sec -III NB-2546.3 LPI Procedure: To be submitted	TC	✓	P	H
2.8	Ultrasonic Inspection (USI)	Internal soundness	Ultrasonic Test	100%	ASTM A388, ASME Sec-III NB-2542.1 Acceptance: ASME Sec-III NB-2542.2(a) UT Procedure: To be submitted	TC	✓	P	H
2.9	Specimens preparation	Dimensions	Measurement	100%	MSTP: To be submitted ASME Sec IIA-SA182	RD	--	P	W
2.10	Final Dimensional Check	Dimensions	Measurement	100%	Drg/P.O: To be filled	TC	✓	P	H
2.11	Mechanical and Metallurgical Tests :								
2.12	Product analysis	Chemistry	Chemical analysis	1 / Batch	ASME Sec IIA-SA182F316L	TC	✓	P	H
2.13	Tensile at RT (Transverse Direction)	Tensile Strength, Yield Strength (0.2% offset), % EL, % RA	Destructive Test	1/Batch	MSTP: To be submitted ASME Sec IIA-SA182F316L SA370	TC	✓	P	H
2.14	Tensile at 350° C (Transverse Direction)	Tensile Strength, Yield Strength (0.2% offset), % EL, % RA	Destructive Test	1/Batch	MSTP: To be submitted ASTM E21	TC	✓	P	H
									Values are for information purpose only.

Prepared		Reviewed & Approved		Reviewed & Approved		LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: SUPPLIER B: BHEL, N: NPCIL/TP P: PERFORM R: REVIEW W: WITNESS AND H: HOLD TC: TEST CERTIFICATE RD: RECORD	
SUPPLIER'S NAME: To be filled				BHEL		NPCIL	

Noted

Supplier's Name and Address	Quality Plan for SA182F316L Solid Forgings for Venturi Nozzle				Doc No: SQP-SA182F316L_Rev 01 Project: GHAVP 1 & 2 W.O: D157 to D160-001-1-93-171 P.O No: To be filled				
	Item : SA182F316L forgings Sub-system: Steam Generator	Q.P No.: To be filled by Supplier Rev.No.: To be filled by Supplier Date: To be filled by Supplier Page No: 3 of 5	IGC Test	1/Batch	ASTM A 262 Practice E	TC	✓	P	H
2.15 IGC (After Sensitization)	IGC	Micro test, Grain size check	1/Batch	ASTM E112 Grain Size: For information purpose	TC	✓	P	H	H
2.16 Micrograph & grain size	Micro structure, Grain Size	Micro test, Grain size check	1/Batch	ASTM E112 Grain Size: For information purpose	TC	✓	P	H	H
3.0 Final Inspection									
3.1 Visual Inspection of Rods	Free from visual defects	Verification and Visual	100%	ASME Sec IIA-SA182 Free from visual defects.	TC	✓	P	H	H
3.2 Marking	SI No, Heat Number, Material designation, Inspectors Seal, Manufactures name, P.O NO.	Verification and Visual	100%	To be punched.	TC	✓	P	H	H
3.3 Mix up Test	Positive Material Identification	PMI Test	100%	ASME Sec IIA-SA182F316L	TC	✓	P	H	H
3.4 Certification and Documentation Control	Order compliance	Certificate compilation	100%	As per this QP & P.O	TC	✓	P	H	H
3.5 Documents (Test Certificates) shall be sent to BHEL/Trichy prior to dispatch. Dispatch clearance will be given after Acceptance of Test Certificates by BHEL&NPCIL					RD	--	P	H	H
3.6 Packing & Shipment	Packing	Visual	100%	Drg, P.O	---	--	P	W	R

Note:

1. Quality Plan, MSTP (Material Sampling Plan), Heat Treatment Plan, Manufacturing Process Plan, Report Formats etc. shall be submitted by Supplier and the same will be subjected to both BHEL&NPCIL approval.
2. Ultrasonic & Liquid Penetrant Test Procedures, NDE technique sheets, Report formats (as per ASME Sec V) shall be submitted by Supplier and the same will be subjected to both BHEL&NPCIL approval.
3. All the penetrant material shall have halogen and Sulphur content less than 25 ppm (<25 ppm). NPCIL approved Brand of material shall only be used

Prepared	Reviewed & Approved	Reviewed & Approved	Reviewed & Approved
SUPPLIER'S NAME: To be filled			
BHEL		NPCIL	

LEGEND: * RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION.

** M: SUPPLIER B: BHEL, N: NPCIL/TPI
P: PERFORM R: REVIEW W: WITNESS AND H: HOLD
TC: TEST CERTIFICATE RD: RECORD

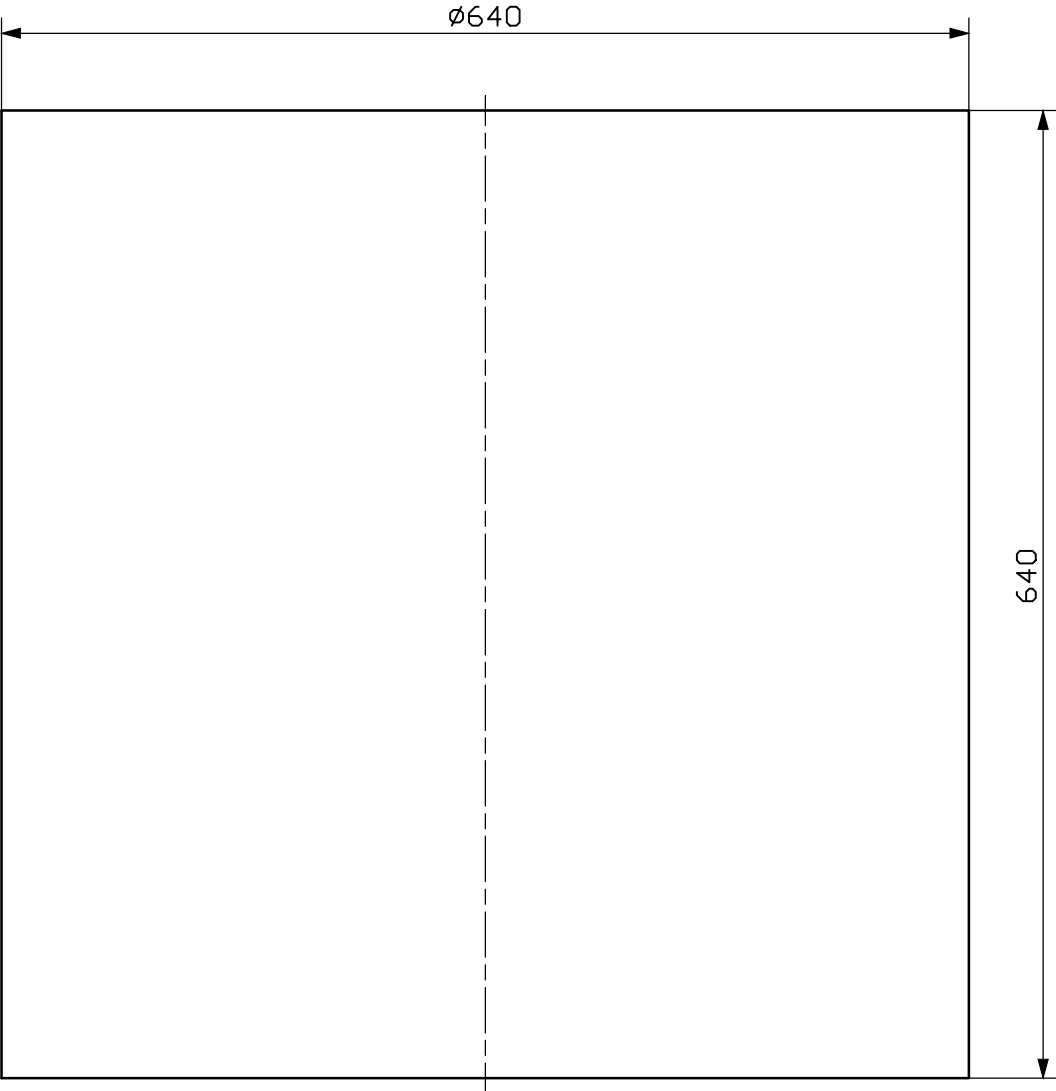
- Prepared - BHEL - Approved -
S. Lakshmi
18/02/21
[S. LAKSHMI, DGM/QA]
CNITHIN 0-12

66290-021-86-3
DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETERS

NOTES:-

1. MATERIAL SPECIFICATION : SA182 F316L
2. SURFACE FINISH : $\sqrt{3.2}$ OR FINER ALL OVER.
3. THE NOZZLE FORGING SHALL BE SUPPLIED IN FINISH MACHINED CONDITION AS SHOWN.
4. THE NOZZLE FORGING SHALL ALSO BE CHECKED BY 100% U.T AS PER ASME SPECIFICATION.
5. SUITABLE RUST PREVENTIVE COATING WHICH IS EASILY REMOVABLE SHALL BE APPLIED ON ALL MACHINED SURFACES.
6. THE COMPONENT SHALL BE FORGED AS CLOSE TO THE FINISHED SHAPE AS POSSIBLE.
7. APPROXIMATE WEIGHT : 1647 kg

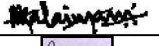
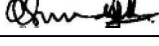
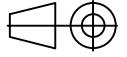


TOLERANCE IF NOT SPECIFIED SHALL BE AS BELOW (REFER IS 2102-m)

LINEAR				ANGULAR	
0.5 TO 3	± 0.1	400 TO 1000	± 0.8	0 TO 10	± 1°
3 TO 6	± 0.1	1000 TO 2000	± 1.2	10 TO 50	± 30'
6 TO 30	± 0.2	2000 TO 4000	± 2.0	50 TO 120	± 20'
30 TO 120	± 0.3	—	—	120 TO 400	± 10'
120 TO 400	± 0.5	—	—	OVER 400	± 5'

REV	DATE	ALTERED :
		CHD&APPD :

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		700MWe/GHAVP-1&2						
 05-229/D	Bharat Heavy Electricals Ltd		DRN	NAME N.K.	SIGNATURE 	DATE 090814	NO. OF VAR	
	UNIT: HIGH PRESSURE BOILER PLANT		CHD	AK/SM		090814		
	TIRUCHIRAPALLI - 620014		APPD	A.S		090814		
DEPT NC	GRADE OF UNTOL. DIM C/M/F		SCALE 1: 5	WEIGHT (Kg) 1647	REF TO ASSY / OLD DWG GHAVP-1&2/33111/4019/DD/ROO		ITEM NO	No OF ITEMS
CODE 150	TITLE VENTURI NOZZLE (FORGING)			CARD CODE U 01	DRAWING NO : 3-93-170-05299		REV 00	