



BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirappalli – 620014
Materials Management – Valves/Purchase

Ref: Inconel 617: OT: Enquiry

Date: 18.09.2014

Enquiry Instructions – For Procurement of SB 564 UNS N06617 Forgings

- A) The rates shall be quoted on the basis of unit price for **Inconel 617 Forgings** as per Annexure – A, confirming to the Technical Delivery condition **TDC:0:436-01**, Drawings, standard & special terms and conditions.

The quoted rates shall be inclusive of inspection charges and quoted on “**CFR – Chennai Sea Port / FOR – BHEL Trichy**” basis in case of Import & Indigenous Vendors respectively.

Offers should be in English and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in English.

B) Offers are invited in two parts:

Part A:

- I. Techno-commercial bid covering technical conditions, delivery conditions and all other commercial conditions except price and filled up copy of Annexure – G without price, indicating “**QUOTED / NOT-QUOTED**” for the Bill of Quantities. Further vendor to furnish list of manufacturing and testing/inspection facilities along with the company product catalogues.
- II. Please submit a separate envelope and indicate the enquiry no with “**Part A**” for techno-commercial bid.

Part B:

- I. Priced bid covering only price as per Annexure – H.
- II. Please submit a separate envelope and indicate the enquiry no. with “**Part B**” for priced bid.

The bidder shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be **sealed in one outer envelope**.

Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced bid. This envelope should be clearly marked “**Part A – Techno-commercial bid**” indicating Enquiry No., due date, address and reference of bidder.

Envelope II: This sealed envelope should contain price details. This envelope should be clearly marked “**Part B – Priced bid**” indicating enquiry no., due date, address and reference of the bidder.

Both the envelopes (Part A & B) shall be put it in one cover, duly sealed, super scribing as Part A and Part B of enquiry no., due date of opening and the address & reference of bidder.

The above offers should reach the following office address on or before the due date 23.10.2014 by 14.00 hours. Late offers will not be considered.

**TENDER BOX/ C&F/PURCHASE/ VALVES,
3rd FLOOR, BUILDING 24,
BHARAT HEAVY ELECTRICALS LIMITED,
TIRUCHIRAPALLI – 620014,
TAMILNADU, INDIA.**

- C) Opening of Tender: - The Part A – Techno-commercial bid will be opened on the tender opening date 23.10.2014 by 15.00 hrs.
- D) Techno-commercial bid will be opened first, subsequently priced bid opening/reverse auction (general term and conditions for reverse auction is enclosed vide Annexure L for reference) will be conducted for techno-commercially qualified vendors on pre-intimated date.
- E) The rates shall be quoted separately for each item in the format as given in the Annexure H (Individual item rates will be considered for ordering specific items if there is a change in the enquiry quantity for any item at a later stage).
- F) **The offers will be evaluated on package basis** & only those suppliers who have quoted for all items will be considered.
- G) Please refer Annexure F for the list of drawings covered in the enquiry.
- H) All the forgings shall be subject to chemical, mechanical tests as per **TDC: 0: 436 Rev 01** and the relevant test certificate should accompany the consignment.

Vendor shall offer samples as per TDC/ special requirements/ drawings for inspection and clearance by BHEL inspector. QC personnel from BHEL/ IBR authorized inspection agency would visit the firms for inspection and clearance of the forgings.

On completion of final inspection of the forgings by BHEL-QC/ IBR authorized inspection agency, necessary IBR certificate as per Form-IIIC/Form-IVA shall be provided.

- I) **Fixed Price:** Prices quoted by the bidders shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the purchase order. A bid submitted with an adjustable price will be treated as non-responsive and rejected. Prices shall be written in words as well as in figures. In the event of any difference, the price in words shall be valid and binding. Unit prices shall be considered as correct in the event of any discrepancy with regard to total price.
- J) Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL). For evaluation of the tender, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Techno-commercial Bid opening date) shall be considered.

K) Indian Agent & Agency commission: An Indian Agent (if any) can represent only one Foreign Manufacturer against a particular tender. The CFR price quoted by the foreign bidder shall include the agency commission however; the agency commission component payable to their Indian Agents shall be shown separately in the offer. This will be paid by BHEL in Indian Rupees, on satisfactory completion/execution of the order.

The bidder shall furnish authenticated copy of the Agency Agreement detailing the precise relationship between them and their mutual interest in the business so as to consider the offer of Indian Agent for the indigenous portion of the supply.

For the main equipment, the offer should be from principal / Original Equipment Manufacturer. The supplier has to furnish original authorization letter for the Indian Agent along with the offer.

Short shipment/Warranty replacement: In case of any short shipment in the main equipment/spares, customs duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR, BHEL, Tiruchirapalli-620014, basis.

L) To those vendors who are not in BHEL Product Material Directory (PMD), the following additional conditions are applicable over and above the other conditions.

- The vendor should submit the techno-commercial offers along with duly filled supplier registration forms (SRF) which can be downloaded from our website www.bhel.com and supporting documents for the data filled in SRF.
- The foreign sources will be enlisted in our Product Material Directory based on the M/s D & B (**M/s DUN & BRADSTREET**) statement and then their offer will be technically evaluated.
- For indigenous sources, BHEL team will visit the vendor works to enlist them in our vendor directory and then their offer will be technically evaluated.

M) BHEL Reserves the right

- To negotiate or re-float the tender in case the quoted prices are not acceptable.
- To increase or reduce the tender quantity.
- To not to order some or all forgings based on changes in project requirements.
- To visit vendor works during the execution of the contract, process of manufacture along with the end customer for inspection and testing of the forgings at vendor works/sub-vendors works.

- N)** Point by point technical confirmations of all pages of our technical specifications are required with your signatures (on each page) along with the techno-commercial offer (Part A). Tenderers shall furnish any deviations to the technical requirements separately along with the offer for our review.
- O)** In addition to all the above conditions, Special terms and conditions as per Annexure C and Terms and conditions as per Annexure D for Indigenous & Annexure E for Import Vendors shall also be applicable for this enquiry.
- P)** The drawings and technical documents given in this enquiry are the sole property of BHEL. This should not be misused in any form.

Enclosures:

- | | |
|----------------|--|
| a) Annexure A: | Bill of Quantities |
| b) Annexure B: | Technical Delivery Conditions (TDC: 0: 436 Rev 01) |
| c) Annexure C: | Special Terms and Conditions |
| d) Annexure D: | Terms and Conditions-Indigenous Enquiry |
| e) Annexure E: | Terms and Conditions-Import Enquiry |
| f) Annexure F: | List of drawings |
| g) Annexure G: | Techno-commercial Bid format |
| h) Annexure H: | Priced Bid Format |
| i) Annexure I: | List of IBR approved inspection agencies |
| j) Annexure J: | List of consortium banks |
| k) Annexure K: | Performance Bank Guarantee format |
| l) Annexure L: | General terms and conditions for Reverse Auction |
| m) Annexure M: | IBR Formats |

P.W.GREGORY
Sr.Manager/MM/Valves

Bill of Quantities.

Annexure – A

Sl. No	Material Code	Material Description	Specification	DRG No/Rev No	TDC No/ Rev No	Weight (kg)	Qty.	Total Wt.(kg)	
1	920582960000	BODY FORGING-6300	SB564 UNS N06617	4V630025460P/00	TDC:0:436/01	1,516.0	1	1,516.0	
2	920582980000	SEAT RING FORGING-6300	SB564 UNS N06617	4V630025427F/00	TDC:0:436/01	37.0	1	37.0	
3	920582990000	BONNET FORGING - 6300	SB564 UNS N06617	4V630025428F/01	TDC:0:436/01	226.0	1	226.0	
4	920583000000	NOZZLE BODY FORGING-6300	SB564 UNS N06617	4V630025429F/01	TDC:0:436/01	117.6	1	117.6	
5	920583010000	JETCAGE FORGING -6300	SB564 UNS N06617	4V630025430F/00	TDC:0:436/01	250.0	1	250.0	
6	920583020000	LOCKING RING FORGING -6300	SB564 UNS N06617	4V630025437F/00	TDC:0:436/01	1.5	1	1.5	
7	920583030000	BONNET FLANGE FORGING -6300	SB564 UNS N06617	4V630025446F/00	TDC:0:436/01	62.0	1	62.0	
8	920583040000	STEM FORGING-6300	SB564 UNS N06617	4V630025445F/01	TDC:0:436/01	74.0	1	74.0	
9	920583060000	GLAND FLANGE FORGING-6300	SB564 UNS N06617	4V630025438F/01	TDC:0:436/01	9.5	1	9.5	
10	920583070000	EXTRACTION RING FORGING-6300	SB564 UNS N06617	4V630025434F/01	TDC:0:436/01	1.6	1	1.6	
11	920583090000	DRIPPING TRAY RING FORGING-6300	SB564 UNS N06617	4V630025457F/00	TDC:0:436/01	19.1	1	19.1	
12	920583160000	FORGING-OD70xID25xL90mm	SB564 UNS N06617		TDC:0:436/01	2.5	4	10.0	
13	920583120000	FORGING-OD418xID305xL150mm	SB564 UNS N06617		TDC:0:436/01	80.5	4	322.0	
14	920583130000	FORGING-OD380xID210xL150mm	SB564 UNS N06617		TDC:0:436/01	98.8	3	296.4	
15	920583140000	FORGING-OD250xID120xL100mm	SB564 UNS N06617		TDC:0:436/01	31.6	2	63.2	
16	920583150000	FORGING-OD180xID80xL250mm	SB564 UNS N06617		TDC:0:436/01	42.7	2	85.4	
17	920583170000	FORGING-OD418xID335xL300mm	SB564 UNS N06617		TDC:0:436/01	123.1	1	123.1	
18	920583200000	FORGING-DIA85XL1000mm	SB564 UNS N06617		TDC:0:436/01	47.4	1	47.4	
19	920583210000	OUTLET NOZZLE FORGING	SB564 UNS N06617	4V630025463P/00	TDC:0:436/01	165.0	1	165.0	
								3,426.8	

(All dimensions are in mm-millimeters)

Record of Revision:

Rev 00: 15/07/14: Fresh Issue

Rev 01: 08/08/14: Material designation in Heading & Cl 1 modified, Cl 9 – IBR inspection requirements added.

1. Material:

Specification : ASME SB564 (Latest on the date of Purchase Order)
 Material : UNS N06617
 Additional Requirement : As listed below (Supplementary to Specification)
 Size and Qty. : As per Purchase order

2. Chemical Composition and Process:

Material shall be produced by using vacuum induction melting (VIM) and vacuum arc re-melting (VAR).

Forged bar shall be ensured for uniform structure & strength with reduction ratio in area: 3:1 min. from ingot to finished forging.

Product Analysis: As per spec

Heat Analysis in weight %: Test method as per ASTM E350

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

Raw materials used in making of forged bars including incoming scrap shall be checked by supplier to ensure freedom from radioactivity.

3. Dimensions and Tolerances:

As per purchase order and relevant drawings.

4. Heat Treatment on Forging:

UNS N06617 – solution annealed condition - 1180 °C (± 10°C).

5. Mechanical Tests:

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

UNS N06617: Tensile Strength: Min 700 Mpa, Yield Strength (2% off set): Min 300 Mpa, Elongation ($L=5.65\sqrt{A}$), min 35%

Macro: Grain size ASTM 2-5.

Creep testing at 700°C for 1000 hrs at a stress of 300 MPa

6. Non-destructive testing:

UT: 100% for all diameters. For hollow forgings - notch depth 3% of max thickness. Testing method and acceptance shall be as per supplementary requirement in ASME SB-564.

Reference hole as per table: UT testing reference hole for inspection in radial direction		
Dia of forging, mm	Dia of ref flat bottom hole, mm	Remarks
D ≤ 150	3.2	
150 < D ≤ 400	6.4	
400 < D ≤ 600	12.7	
600 < D ≤ 1200	12.7	1. Sensitivity of 12.7mm hole shall be ensured at 600mm depth and the scan should be carried out from throughout the circumference to cover the complete diameter. 2. Dual element transducer shall be used to inspect the near surface areas within the dead zone of the single element transducer used for inspection as described in point 1.

LPI: 100% - test method & acceptance as per supplementary requirements in ASME SB-564.

All the chemicals used for LPI shall meet the requirement that total halogen and sulphur of each material shall not exceed 1% by weight of residue. Recommended for NP grade (nuclear purpose) LPI consumables.

7. Workmanship and Finish:

The material shall be plain, uniform in quality and condition, smooth, straight or flat and free of wrinkles, overlaps, tears, cracks and injurious imperfections. No repairs/weld repairs permitted. Forgings to be clean & shot blasted to remove scales after HT.

8. Marking & Packing:

Details of stamping on front face of each item with low stress stamps and border by oil paint: (1) Heat number, (2) Specification & grade, (3) Size, (4) Maker's emblem/code, (5) Identification details as per drawing. Work inspectors stamp next to heat number. The Forgings are to be properly packed and despatched to avoid damage during transit.

9. Inspection & Certification:

The inspection and tests to be witnessed by an IBR approved inspecting agency, in case the Forge shop is not recognised as a "Well known Forger" under IBR.

IBR Form IIIG countersigned by applicable inspection agency and Test certificate with following details, shall accompany the product (including proof machined). Well known Forger shall provide IBR Form IIIF and Test certificate with following details, shall accompany the product (including proof machined). Also Manufacturer Test Certificate shall be provided with the following details: -

1. Purchase Order No. (BHEL), TDC No. & Test certificate number.
2. Specification, Grade with applicable year of code, Heat Number, Drawing No., Quantity & Size
3. Supplier TC of the steel used in making the finished product – Well known steel maker IBR Form IV & others Form IVA.
4. Details of steel ingot, Melting & forging process, Chemistry including incidental elements - Heat wise.
5. Heat treatment details of the material and test bars, Mechanical test results, creep test report with reference & acceptance standard.
6. NDE examination test results with reference & acceptance standard.
7. Results of dimensional data sheet

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

10. Quality Plan:

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

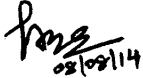
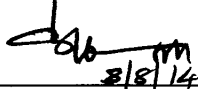
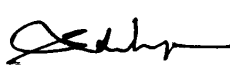
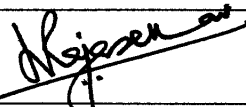
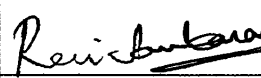
- | | | |
|---|--|--|
| i) melting & refining, | vii) preliminary heat treatment, | xii) marking preservation and dispatch, |
| ii) ingot weight and type, | viii) internal tests and inspection before final heat treatment, | xiii) test instructions for NDE examinations along with sketches |
| iii) forging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

11. Audit Checks at BHEL:

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

12. End Use

To be used in forgings of valves and steam turbine shafts as well as headers for Advanced Ultra-Super Critical (AUSC) boiler applications.

 08/08/14	 8/8/14			
Haritha.C/QA	Kalyanaraman.V/ QA	Selvarajan.S/QA	Rajasekar.N/ Engg	Revisankaran.U/QA
Prepared by	Reviewed by			Approved by



BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirappalli – 620014
Materials Management – Valves/Purchase

Ref: Inconel 617: OT: Enquiry

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Special Terms and Conditions

- a) Material shall be supplied as per the Technical delivery conditions – **TDC: 0: 436 REV 01** and Drawings and other special requirements as given in the Terms & conditions.
- b) Vendor shall give point-wise confirmation of TDC:0:436 Rev.01 signing on each page
- c) Whenever the drawings call for proof machining, the same shall be executed and no extra charges shall be paid by BHEL for proof machining.
- d) On placement of purchase order, the vendor shall make ready one sample forging in each of the ordered items at one point of time to enable BHEL to depute their quality personnel/IBR authorized inspection agency for inspection of the forgings and quality documents. The vendor shall make available dimensional reports, heat treatment charts and other quality documents to BHEL/IBR authorized inspection agency during inspection.
 On successful acceptance of the forging by BHEL personnel/IBR authorized inspection agency at vendor works, the forging can be dispatched to BHEL.
- e) In the event of non-clearance of sample forging/inability of the vendor to manufacture the forgings as per BHEL requirement, BHEL will have the right to cancel the PO without any financial implication to BHEL.
- f) Heat Number, Specification of material and supplier's Emblem /Logo are to be hard stamped on all materials.
- g) Any defects found during Machining/Assemble/Hydro test of the valves, the minor repairs shall be undertaken by BHEL and the entire cost of such repairs shall be borne by the vendor. If the defects are found to be major, such forgings will be rejected and in such a case the vendor shall replace all the defective forgings on FOR/BHEL Tiruchy-14. To ensure the guarantee of supplies a performance Bank Guarantee (PBG) for 10% of order value for a period of 22 months from the date of dispatch with an additional claim period of 2 months as per the format given in Annexure E. The PBG shall be submitted along with payment documents.
- h) Separate charges shall not be paid for test bar and test certificate supplied by vendors. Test bar/plates for welding procedure qualification as well as for audit check shall be supplied by vendors free of cost whenever required by BHEL.
- i) No price variation clause is acceptable, i.e. the price if the component quoted by the vendor shall be firm throughout the period of contract.

j) BHEL Expected Delivery:

- Forgings to be supplied within 4 months from the date of placement of purchase order .

k) Testing:

UT testing shall be carried out as per TDC: 0: 436/Rev 01 for the applicable forgings.

BHEL may conduct UT or LPI examination as audit check on any of the forgings at frequent intervals and the forgings should satisfy the quality requirements as spelt out in the TDC: 0: 436/Rev 01.

- l)** All the forgings shall be submitted to chemical, mechanical tests etc., as per TDC: 0: 436 /Rev 01 and the relevant test certificate shall accompany the consignment.
- m)** BHEL reserves the right to reject the forgings that are found to be defective during machining/assemble/hydraulic testing notwithstanding the earlier acceptance. Such defective forgings have to be replaced free of cost by the vendor.
- n)** In order to ease our processing of this tender, the formats as per the annexure G (Techno-Commercial) & H (Price Bid) enclosed should be used to furnish the mandatory information as called for. The offers through some other formats may get rejected. The information to be furnished and not covered in the formats as per the annexure are to be indicated separately.
- o) Liquidated damage clause** will be applicable for delayed supplies @0.5% of the undelivered portion per week of the delay or part there of subject to maximum of 10% of total order value. If any deviation loading will be applied to the extent to which it was not agreed by the bidder (at offered value).
- p) Risk Purchase Clause:** BHEL shall be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier, either the whole of the goods or any part thereof which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid. The supplier shall be liable for the losses, which BHEL may sustain by way of such risk purchase in addition to aforesaid penalty for delayed delivery.
- q) Guarantee Clause:** The vendor shall give a guarantee of eighteen months from the date of acceptance of forgings at BHEL.

r) Force Majeure:

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

s) Disputes:

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

t) Jurisdiction:

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

In addition to all the above conditions, BHEL Standard Terms and Conditions and the requirements spelt out in the Enquiry Instructions shall also be applicable for the orders to the extent they are not superseded by the above conditions.

P.W.Gregory
Sr.Manager/MM/Valves



BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirappalli – 620014
Materials Management – Valves/Purchase

Annexure - D

Ref: Inconel 617: OT: Enquiry

DT: 15.09.2014

Terms & Conditions – Indigenous Enquiry

a) Quotations / Offers

- Each tender should be sent in **double cover**. Inner cover containing the bids should be sealed and super scribed with correct tender number, item of supply and due date of opening. The **outer cover** should only bear the address of this office and **should not have any indication that a tender is within**. Two or more quotations should not be sent in one cover but the quotation against each tender should be sent separately to avoid confusion. **Tender should not be addressed to any individual's name.**

**TENDER BOX/C&F/PURCHASE/ VALVES,
3rd FLOOR, BUILDING 24,
BHARAT HEAVY ELECTRICALS LIMITED,
TIRUCHIRAPALLI – 620014,
TAMILNADU, INDIA.**

b) Offers should be firm on the basis of “FOR – BHEL Trichy”

c) Regulations: Tenders should be free from correction and erasures. Corrections if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail. Unit prices shall be considered correct in the event of discrepancy with regard to total price.

d) Two bid system: The offers are invited in two part bid system (Techno-commercial bid and priced bid). First Techno-commercial bid will be opened. Techno-commercially suitable vendors will be intimated for participating in priced bid or reverse auction.

e) Late Tenders: Late tenders shall not be considered under any circumstances.

f) Catalogue: Manufacturer's name, trade mark or patent No. if any should be specified. Illustrative leaflets giving technical particulars are required along with the quotation wherever necessary.

g) Acceptance of offer: The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.

h) Samples: Wherever possible samples should be submitted separately whether specifically requested or not so as to reach the purchaser on or before its due date of the enquiry. They should be clearly marked with the enquiry No. and the date on the outside cover to facilitate identification.

i) Packing and marking:

The supplier shall arrange for securely protecting / packing & marking the materials to avoid loss or damage in transit.

j) Commercial Terms and Conditions

- If any Sales Tax is payable as extra to the quoted price, it should be specifically stated in the quotation alongwith the CST / TIN. No.s.. Our CST Regn. No.239383 Dt.11.06.1991 & TIN No.(TamilNadu) 33243560005
- If any Excise Duty is payable, the chapter head/sub-head reference and the rate of duty should be quoted.
- **Validity:** The offers shall be valid for **120 days (One hundred twenty) days** from the date of opening / Due date of the Techno Commercial Bid (PART - A).
- **Test Certificate:** The tenderer shall clearly mention in their offer, that the Test Certificate, as called for in the technical specification, in triplicates, copies will be provided at no extra cost.
- **Terms of Payment:** Payment will be made after 45-90 days of acceptance at BHEL stores. Documents through Bank / L.C. are liable for rejection.

The original Excise Duty Gate pass and test certificate shall accompany the material. Copy of the above documents should be submitted along with the original bills submitted to BHEL.

- **Bank Guarantee:** The supplier in the event of an order should furnish a Bank Guarantee from our consortium Banks (Annexure-J) at no extra cost in a proforma which will be supplied to the supplier, along with the Order, for an amount equivalent to 10% of the value of the contract. The Bank Guarantee should remain in full force and effect during the period that would be taken for successful completion of the contract and shall continue to be enforceable till 12 months from the date of receipt of consignment at purchaser's site or 18 months from the date of last shipment at the Port of Delivery whichever is earlier.

P.W.Gregory
Sr.Manager/Purchase/Valves



BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirappalli ,India– 620014
Materials Management – Valves/Purchase

Annexure - E

Ref: Inconel 617: OT: Enquiry

DT: 18.09.2014

Terms & Conditions – Import enquiry

a) Quotations / Offers

- Each tender should be sent in **double cover**. Inner cover containing the techno-commercial & price bids should be sealed and super scribed with correct tender number, item of supply and due date of opening. The **outer cover** should only bear the address of this office and **should not have any indication that a tender is within.**
- **Tender should not be addressed to any individual's name.**

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TIRUCHIRAPALLI – 620014,
TAMILNADU, INDIA.**

Offers should be firm on the basis of “**CFR Chennai sea port**”. Shipping specifications and the earliest delivery should be indicated in the offer.

In case of overseas suppliers route their offer through their accredited selling agents, a letter of authority should be furnished mentioning the name and address of their selling agents who are authorized to bid, negotiate and conclude the contract on their behalf.

- b) Regulations:** Tenders should be free from correction and erasures. Corrections if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail. Unit prices shall be considered correct in the event of discrepancy with regard to total price.
- c) Two bid system:** The offers are invited in two part bid system (Techno-commercial bid and priced bid). First Techno-commercial bid will be opened. Techno-commercially suitable vendors will be intimated for participating in priced bid or reverse auction.
- d) Late Tenders:** Late tenders shall not be considered under any circumstances.
- e) Catalogue:** Manufacturer's name, trade mark or patent No. if any should be specified. Illustrative leaflets giving technical particulars are required along with the quotation wherever necessary.
- f) Acceptance of offer:** The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part of full without assigning any reason whatsoever.

g) Samples: Wherever possible samples should be submitted separately whether specifically requested or not so as to reach the purchaser on or before its due date of the enquiry. They should be clearly marked with the enquiry No. and the date on the outside cover to facilitate identification.

h) Fumigation and Phyto Certificates are required for wooden cases.

i) Commercial Terms and Conditions

- **Agency Commission:** In respect of offers from overseas suppliers, agency commission, if any, payable to their agents in India, shall invariably be shown separately in the proforma invoice and this will be paid by us in India, in Indian Rupees on satisfactory completion of the order.
- If Overseas Principal has any tie up with any third party in respect of Agency Commission it should be declared while submitting the offers.
- Agency commission, if any, should be clearly mentioned in the offer (Both PART-A and PART-B). The bidder shall furnish the copy of Agency agreement and Agency authorization letter along with the Techno Commercial offer.
- **Validity:** The offers shall be valid for **120 days (One hundred twenty) days** from the date of opening / Due date of the Techno Commercial Bid (PART - A).
- **Test Certificate:** The tenderer shall clearly mention in their offer, that the Test Certificate, as called for in the technical specification, will be provided at no extra cost. Test Certificates-IBR Form IIIF and Form IVA (Certificate of Manufacture and Test of Boiler components) should be submitted to meet Indian Boiler Regulations and should be endorsed by IBR authorized inspection agency.
- **Terms of Payment:** 100% Payment on CAD basis after 45 days from the date of receipt of documents specified in the PO at BHEL Bank.

Documents required from vendor (in English) for payment:

- I. Bill of lading
- II. Packing list & Invoice
- III. Country of origin Certificate
- IV. Test Certificate / Compliance Certificate
- V. A Certificate that:

One copy of tests/compliances certificate with non-negotiable documents, comprising of House Airway Bill / Bill of Lading, Invoice, Packing List, Country of origin certificates, applicable drawings and catalogues, duly signed and stamped, should be sent separately to the port consignee & purchaser.

Attn: AGM/Purchase/Valves, BHEL, Tiruchirapalli-620014, India and to Senior Manager/Finance, Import Section, BHEL Tiruchirapalli-620014, India.

In case of any deviation to the above payment term will attract loading as mentioned below.

Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by the bidders.

In the case of usance LCs the loading will be considered @ 1.5% on the offered value. For LC at sight the loading will be considered @ 3.5% on the offered value. Normally CAD at sight and confirmed LCs are liable for rejection.

- **Bank Guarantee:** The supplier in the event of an order should furnish a Bank Guarantee from our consortium Bank (Annexure-J) at no extra cost in a proforma which will be supplied to the supplier, along with the Order, for an amount equivalent to 10% of the value of the contract. The Bank Guarantee should remain in full force and effect during the period that would be taken for successful completion of the contract and shall continue to be enforceable till 12 months from the date of receipt of consignment at purchaser's site or 18 months from the date of last shipment at the Port of Delivery whichever is earlier.
- **Note to the Beneficiary**
 - I. All documents are to be in "**ENGLISH LANGUAGE**" only.
 - II. Description of the material is to prefix by the word "**BOILER COMPONENTS / MACHINER SPARES**" (if not otherwise required by the contract).
 - III. Contract No., L.C. No. and Import License No. are to be inducted in all documents.
 - IV. Invoice should show the description of the goods and the unit rate of each item as in the purchase contract.
 - V. Packing list must indicate case identification, case dimension, and case contents, gross and net weight.
 - VI. Against each item in the invoice and packing list, the serial number of the corresponding Item in the purchase contract or as per order acknowledgement should be indicated.
 - VII. Demurrage charges due to delayed presentation of the original shipping documents for the reason not attributable to the buyer should be borne by the seller.
 - VIII. All documents should be submitted in triplicate.
 - IX. Please avoid ODC (Over Dimensional Consignment) to the Air consolidation agent and inform us before packing the material of ODC condition.

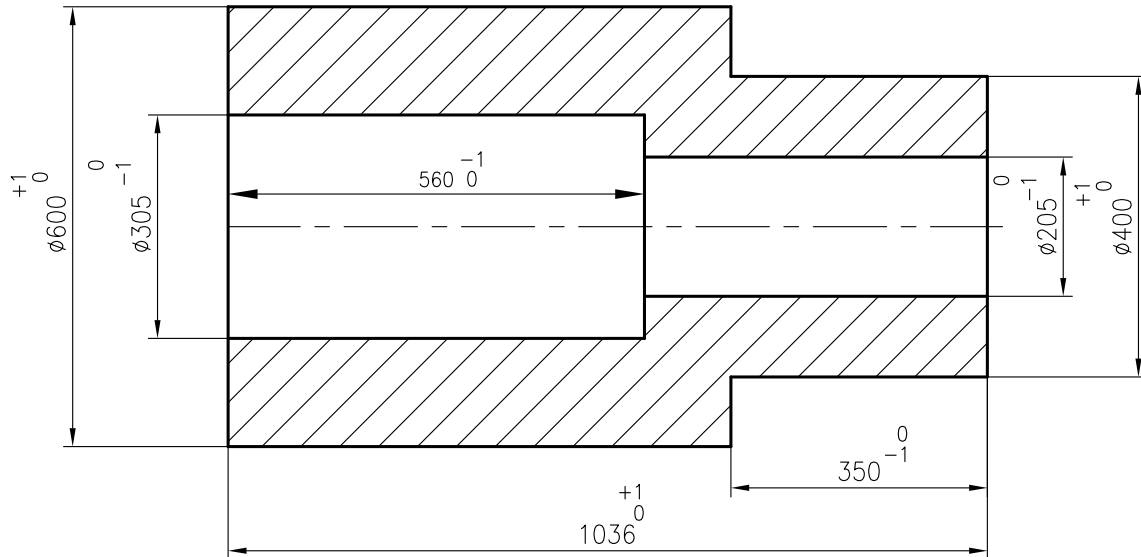
P.W.Gregory
Sr.Manager/MM/Valves

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP


REV	DATE	ALTERED
		CHD & APPD

6.3/



NOTES:-

1. FOR QUALITY REQUIREMENTS REFER LATEST APPLICABLE QUALITY PROCEDURE.
2. CHAMFER ALL EDGES TO 1X45°
3. PROOF MACHINED FORGING SHALL BE SUPPLIED ALONG WITH INDIAN BOILER REGULATION TC.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 ATTEST	SOLUTION ANNEALED		1516					
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No		
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	M.S.VINOD	SIGN	M.S.V	DATE	02.08.2014	NO. OF VAR
365-122					CHD	M.S.VINOD	M.S.V		02.08.2014		
					APPD	N.RAJASEKAR	N.R.S		02.08.2014		
DEPT VL		SCALE		WEIGHT (KG).		REFERENCE INFORMATIONS				NO. OF ITEMS	
CODE	310	NTS		1516		COMPONENT CODE : 920582960000					
TITLE				CARD CODE	DRAWING NO.				REV		
BODY FORGING				U 01	4-V-6300-25460P				00		

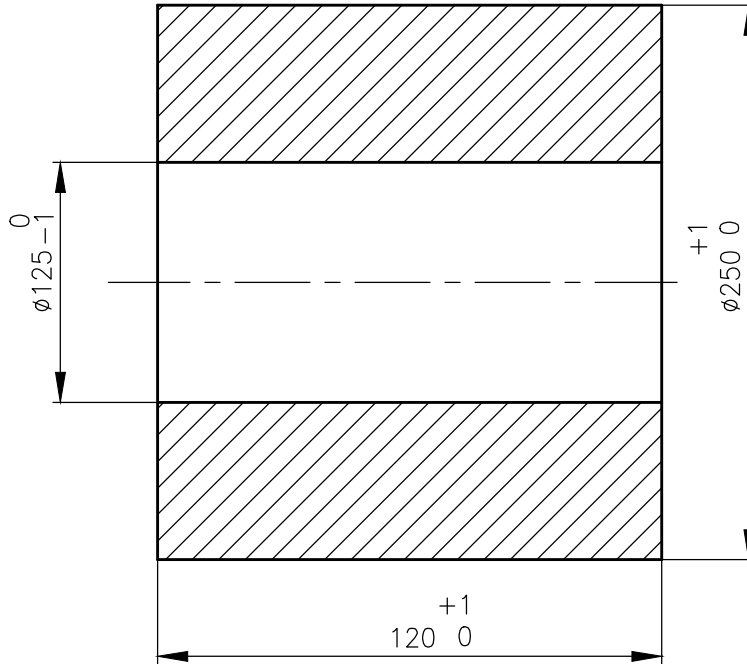
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD

12.5/
▽



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		37				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME CHITRANJAN	SIGN C.K.S	DATE 03.02.2014	NO.OF VAR	
365-122					CHD	CHAITANYA KUMAR	M.C.K	03.02.2014		
					APPD	N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE NTS	WEIGHT (KG). 37	REFERENCE INFORMATION				NO. OF ITEMS	
CODE 310					COMPONENT CODE : 920582980000					
TITLE SEAT RING FORGING					CARD CODE U 01	DRAWING NO. 4-V-6300-25427F			REV	

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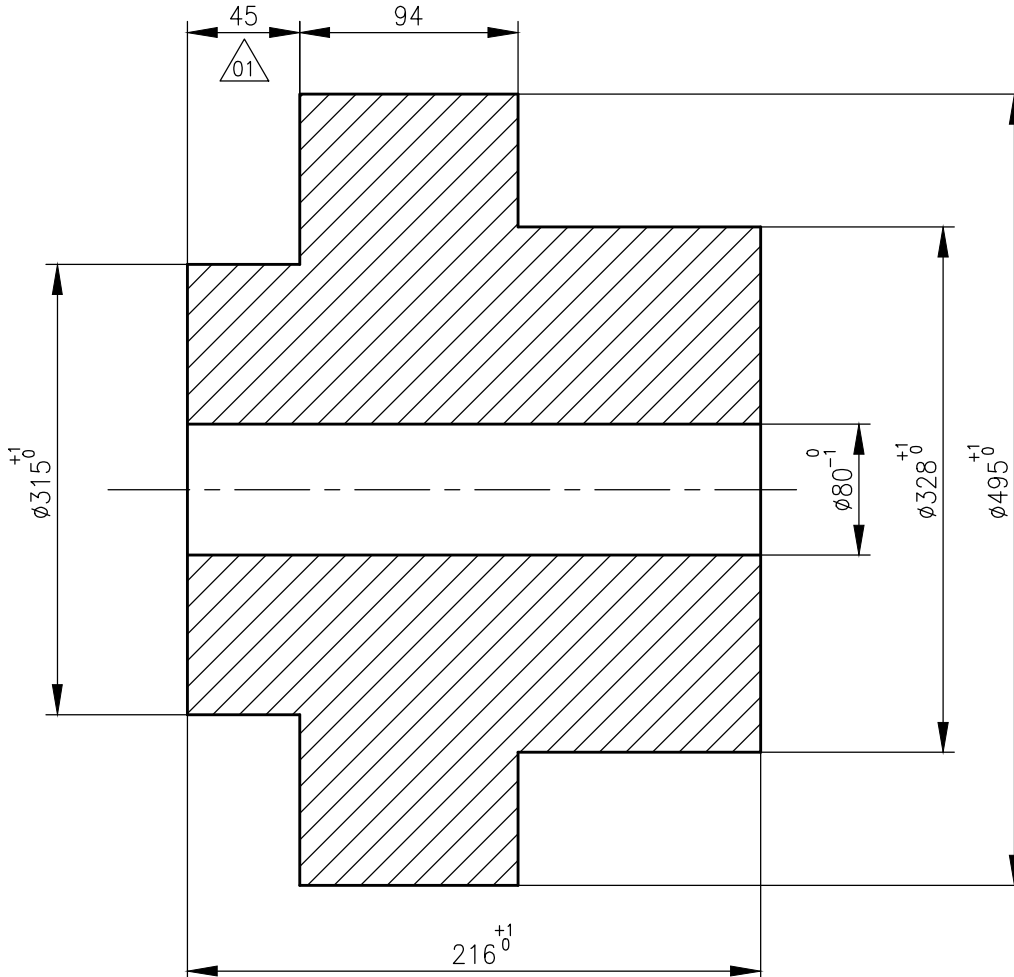
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED : C.K.S
01	13.05.14	CHD & APPD :M.C.K&M.S.V

12.5/
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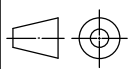
DIMENSIONS ALTERED & NET WEIGHT
CHANGED.
REFER DCN 801739



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN AND PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

▽
01

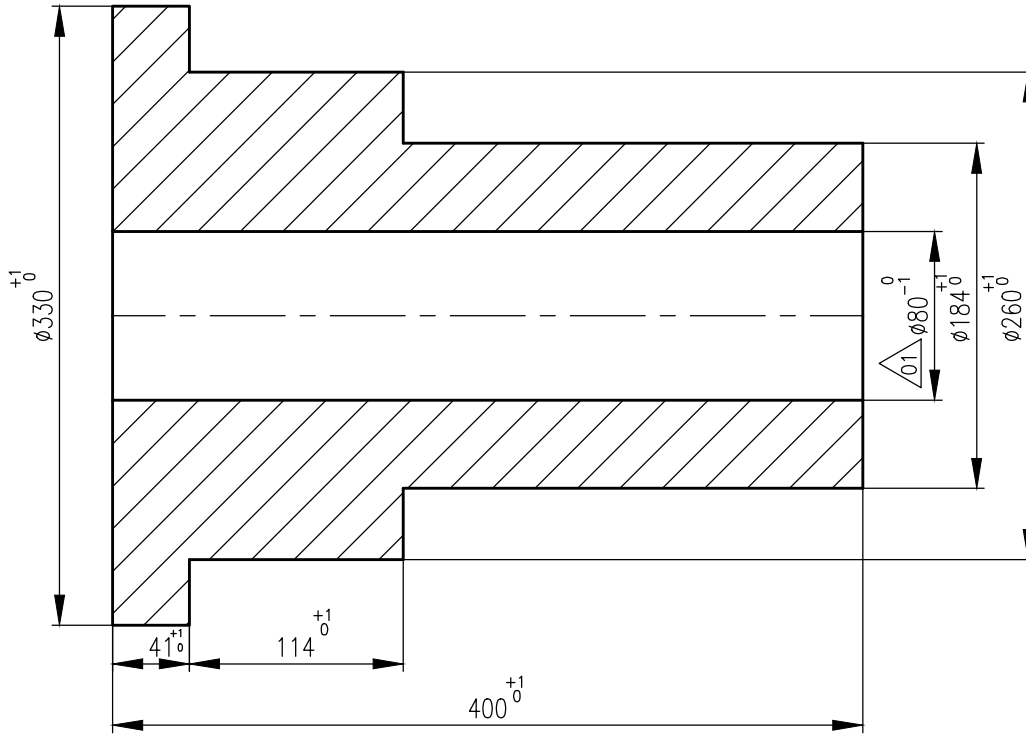
01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		226				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME CHITRANJAN	SIGN C.K.S	DATE 03.02.2014	NO.OF VAR	
365-122					CHD	CHAITANYA KUMAR	M.C.K	03.02.2014		
					APPD	N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE NTS	WEIGHT (KG). 226	REFERENCE INFORMATIONS COMPONENT CODE : 920582990000				NO. OF ITEMS	
CODE 310										
TITLE BONNET FORGING				CARD CODE U 01	DRAWING NO. 4-V-6300-25428F				REV 01	

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REV	DATE	ALTERED : C.K.S
01	13.05.14	CHD & APPD :M.C.K&M.S.V


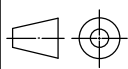
12.5/
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DIMENSION ALTERED
REFER DCN: 801740



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		117.6				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME	SIGN	DATE	NO. OF VAR	
365-122					CHD	CHITRANJAN	C.K.S	03.02.2014		
					APPD	CHAITANYA KUMAR	M.C.K	03.02.2014		
						N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE			NTS	117.6	COMPONENT CODE : 920583000000					
310					DRAWING NO.				REV	
TITLE				CARD CODE	4-V-6300-25429F				01	
NOZZLE BODY FORGING				U 01						

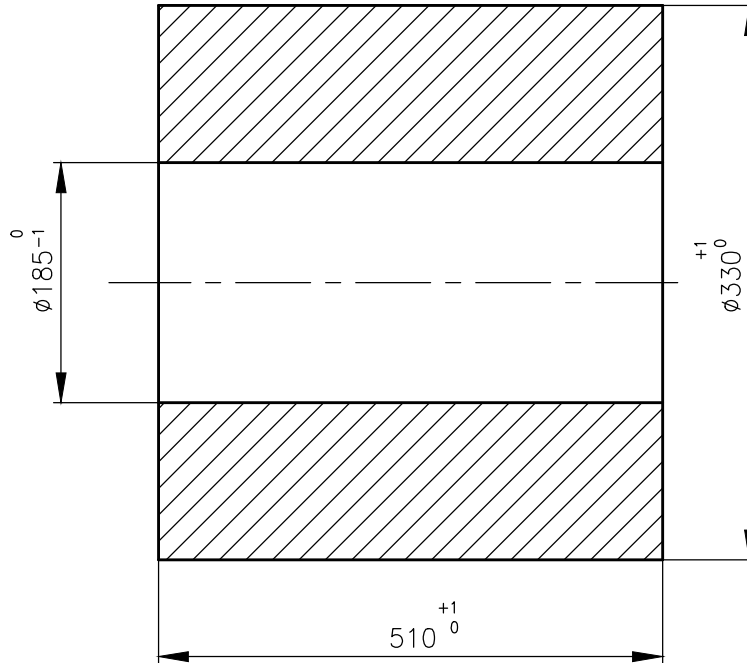
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FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED
		CHD & APPD

12.5/
▽



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		250				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME CHITRANJAN	SIGN C.K.S	DATE 03.02.2014	NO. OF VAR	
365-122					CHD	CHAITANYA KUMAR	M.C.K	03.02.2014		
					APPD	N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE			NTS	250	COMPONENT CODE : 920583010000					
TITLE				CARD CODE	DRAWING NO.				REV	
JETCAGE FORGING				U 01	4-V-6300-25430F					

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.

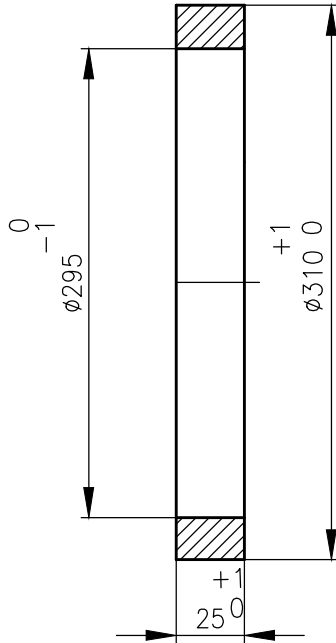
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

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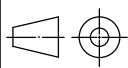
REV	DATE	ALTERED
		CHD & APPD

12.5/
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NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN AND PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		1.5				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME CHITRANJAN	SIGN C.K.S	DATE 03.02.2014	NO. OF VAR	
365-122					CHD	CHAITANYA KUMAR	M.C.K	03.02.2014		
					APPD	N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE NTS	WEIGHT (KG). 1.5	REFERENCE INFORMATION				NO. OF ITEMS	
CODE 310					COMPONENT CODE : 920583020000					
TITLE LOCKING RING FORGING					CARD CODE U 01	DRAWING NO. 4-V-6300-25437F			REV	

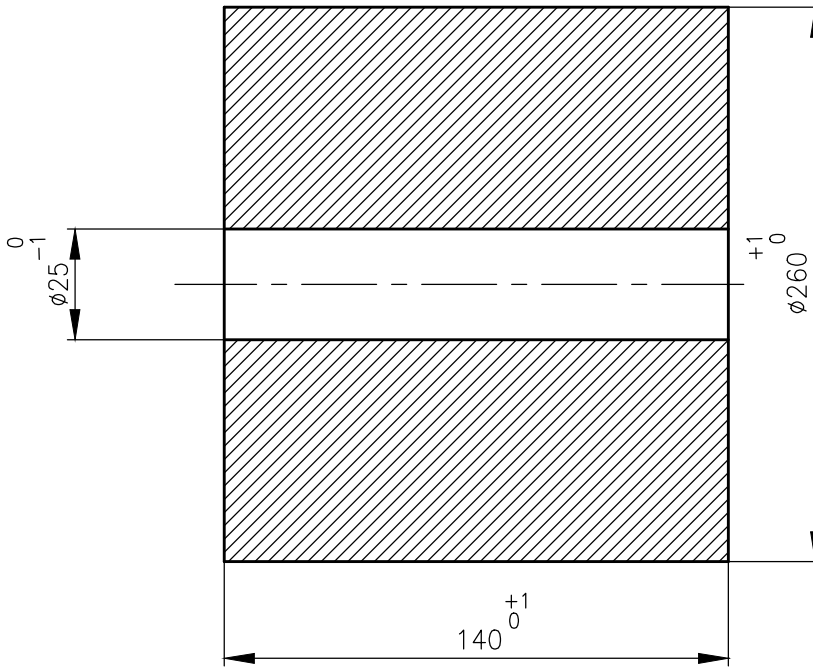
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

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.


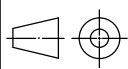
REV	DATE	ALTERED
		CHD & APPD

12.5/
▽



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN AND PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		62			
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.				DRN	NAME	SIGN	DATE	NO. OF VAR	
				CHD	CHITRANJAN	C.K.S	03.02.2014		
				APPD	CHAITANYA KUMAR	M.C.K	03.02.2014		
				APPD	N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS
CODE			NTS	62	COMPONENT CODE : 920583030000				
TITLE				CARD CODE	DRAWING NO.				REV
BONNET FLANGE FORGING				U 01	4-V-6300-25446F				

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

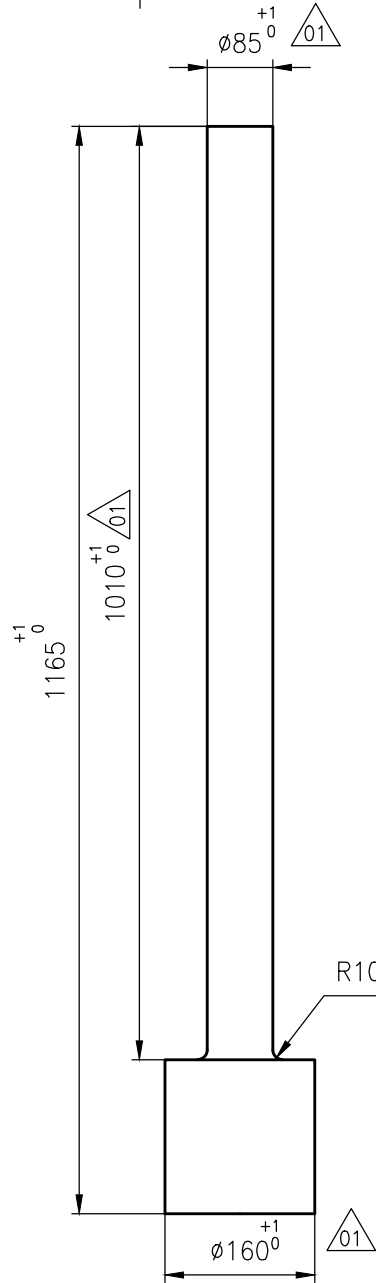
ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP

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REV	DATE	ALTERED : C.K.S
01	13.05.14	CHD & APPD :M.C.K&M.S.V


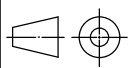
DIMENSIONS ALTERED & TOLERANCE INCLUDED

REFER DCN 801740



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

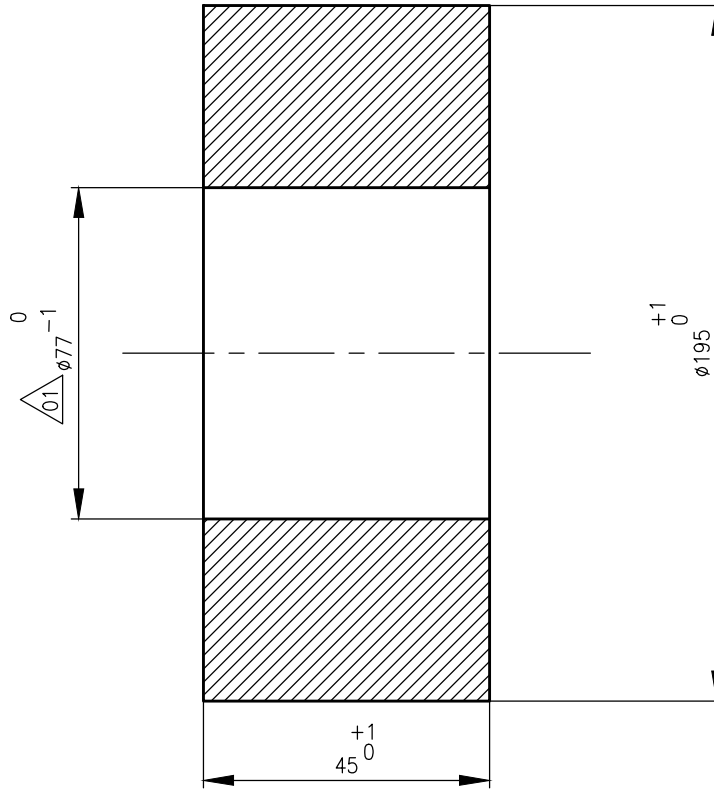
01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		74				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME	SIGN	DATE	NO. OF VAR	
365-122					CHD	CHITRANJAN	C.K.S	03.02.2014		
					APPD	CHAITANYA KUMAR	M.C.K	03.02.2014		
						N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE			NTS	74	COMPONENT CODE : 920583040000					
TITLE				CARD CODE	DRAWING NO.				REV	
STEM FORGING				U 01	4-V-6300-25445F				01	

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REV	DATE	ALTERED : C.K.S
01	13.05.14	CHD & APPD :M.C.K&M.S.V

DIMENSIONS ALTERED & NET WEIGHT.
UPDATED.
REFER DCN 801740


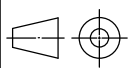
6.3/



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN AND PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

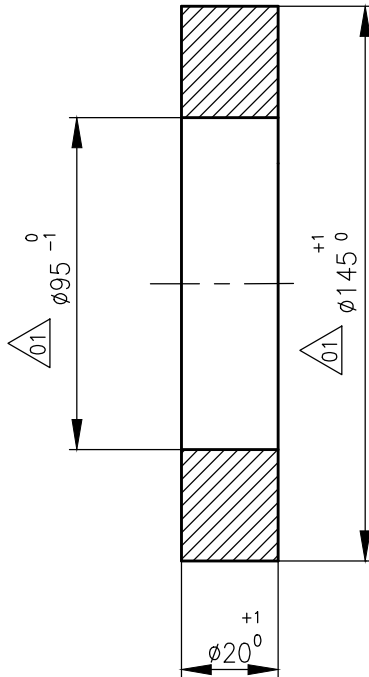
01

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		9.5				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME CHITRANJAN	SIGN C.K.S	DATE 01.03.2014	NO.OF VAR	
365-122					CHD	M.C.K	M.C.K	01.03.2014		
					APPD	M.S.VINOD	M.S.V	01.03.2014		
DEPT VL			SCALE N.T.S	WEIGHT (KG). 9.5	REFERENCE INFORMATION				NO. OF ITEMS	
CODE 310					COMPONENT CODE : 920583060000					
TITLE GLAND FLANGE FORGING				CARD CODE U 01	DRAWING NO. 4-V-6300-25438F				REV 01	

REV	DATE	ALTERED : C.K.S
01	13.05.14	CHD & APPD :M.C.K&M.S.V

6.3

DIMENSIONS ALTERED & NET WEIGHT.
UPDATED.
REFER DCN 801740



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01

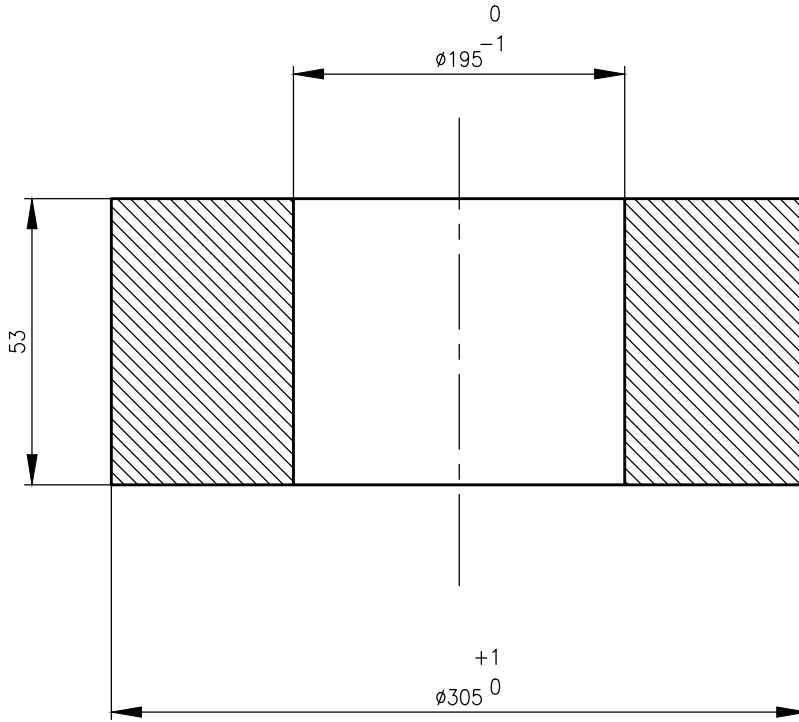
01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		1.6				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME	SIGN	DATE	NO.OF VAR	
					CHD	CHITRANJAN	C.K.S	03.02.2014		
					APPD	CHAITANYA KUMAR	M.C.K	03.02.2014		
						N.RAJASEKAR	N.R.S	03.02.2014		
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE			NTS	1.6	COMPONENT CODE : 920583070000					
310										
TITLE					CARD CODE	DRAWING NO.			REV	
EXTRACTION RING FORGING					U 01	4-V-6300-25434F			01	

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.

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.

REV	DATE	ALTERED
		CHD & APPD

6.3/



NOTE

1. ALL FORGINGS SHALL BE SUPPLIED IN AND PROOF MACHINED CONDITION.
2. REFER LATEST APPLICABLE QUALITY PROCEDURE.
3. CHAMFER SHARP EDGES TO 1X45°.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 PRODUCT ATTEST	SOLUTION ANNEALED		19.1				
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
				DRN	NAME	SIGN	DATE	NO. OF VAR		
				CHD	CHITRANJAN	C.K.S	01.03.2014			
				APPD	M.C.K	M.C.K	01.03.2014			
					APPD	M.S.VINOD	M.S.V	01.03.2014		
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				NO. OF ITEMS	
CODE			N.T.S	19.1	AV 140A COMPONENT CODE : 920583090000					
TITLE				CARD CODE	DRAWING NO.				REV	
DRIPPING TRAY RING FORGING				U 01	4-V-6300-25457F				00	

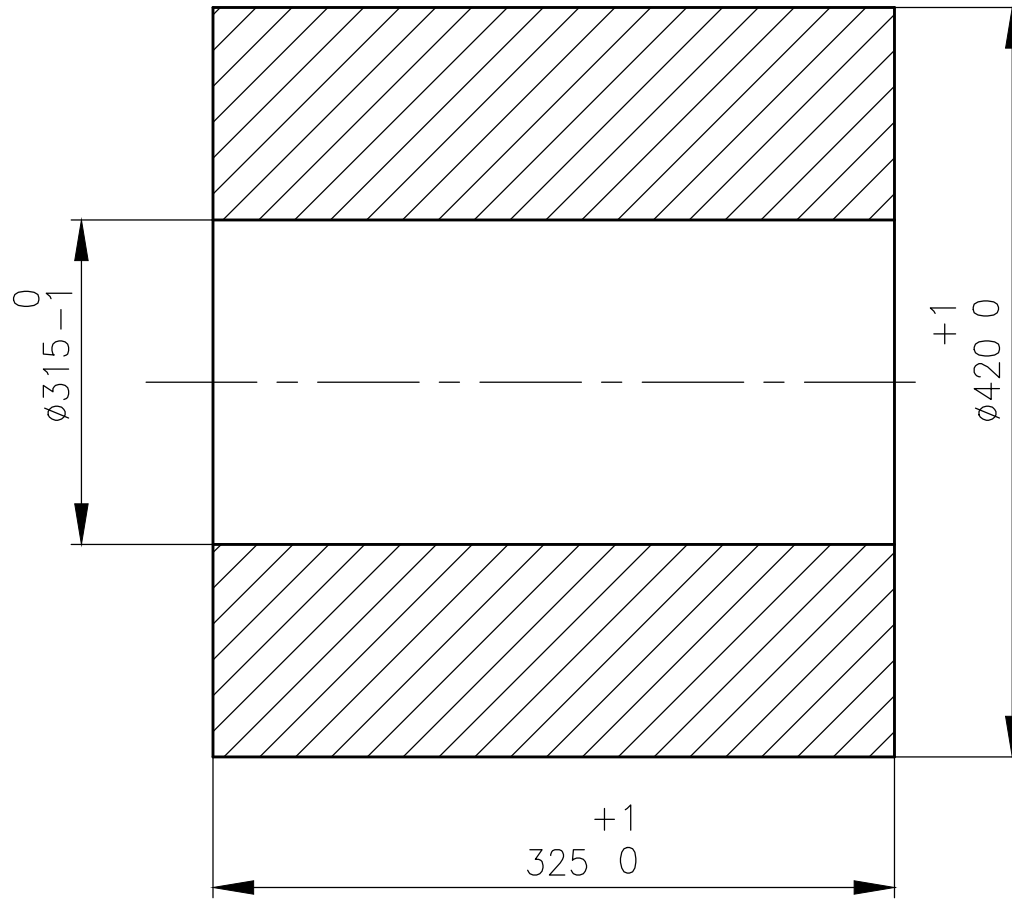
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETRES.
DURING MANUFACTURE REFER RELEVANT QCP/QP


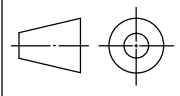
REV	DATE	ALTERED
		CHD & APPD

12.5
▽



NOTES:-

1. PROOF MACHINED FORGING SHALL BE SUPPLIED ALONG WITH INDIAN BOILER REGULATION TC
2. CHAMFER ALL EDGES TO 1X45°
3. FOR QUALITY REQUIREMENTS REFER LATEST APPLICABLE QUALITY PROCEDURE.

01	FORGED AND PROOF MACHINED		SB564 UNS N06617 ATTEST	SOLUTION ANNEALED.		165			
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
		BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI 620014.			DRN	NAME CHITRANJAN	SIGN C.K.S	DATE 03.02.2014	NO. OF VAR
DEPT VL			SCALE	WEIGHT (KG).	REFERENCE INFORMATION				
CODE 310			NTS	165	COMPONENT CODE : 920582970000				
TITLE OUTLET NOZZLE FORGING					CARD CODE U 01	DRAWING NO. 4-V-6300-25463P			REV

Techno Commercial Bid Format

Annexure- G

Sl. No	Material	Material Description	Material Specification	DRG No/Rev No	Unit Weight (kg)	Qty.	"CFR Chennai / FOR BHEL Trichy" Quoted/Not_Quoted
1	920582960000	BODY FORGING-6300	SB564 UNS N06617	4V630025460P/00	1,516.0	1	-----
2	920582980000	SEAT RING FORGING-6300	SB564 UNS N06617	4V630025427F/00	37.0	1	-----
3	920582990000	BONNET FORGING - 6300	SB564 UNS N06617	4V630025428F/01	226.0	1	-----
4	920583000000	NOZZLE BODY FORGING-6300	SB564 UNS N06617	4V630025429F/01	117.6	1	-----
5	920583010000	JETCAGE FORGING -6300	SB564 UNS N06617	4V630025430F/00	250.0	1	-----
6	920583020000	LOCKING RING FORGING -6300	SB564 UNS N06617	4V630025437F/00	1.5	1	-----
7	920583030000	BONNET FLANGE FORGING -6300	SB564 UNS N06617	4V630025446F/00	62.0	1	-----
8	920583040000	STEM FORGING-6300	SB564 UNS N06617	4V630025445F/01	74.0	1	-----
9	920583060000	GLAND FLANGE FORGING-6300	SB564 UNS N06617	4V630025438F/01	9.5	1	-----
10	920583070000	EXTRACTION RING FORGING-6300	SB564 UNS N06617	4V630025434F/01	1.6	1	-----
11	920583090000	DRIPPING TRAY RING FORGING-6300	SB564 UNS N06617	4V630025457F/00	19.1	1	-----
12	920583160000	FORGING-OD70xID25xL90mm	SB564 UNS N06617		2.5	4	-----
13	920583120000	FORGING-OD418xID305xL150mm	SB564 UNS N06617		80.5	4	-----
14	920583130000	FORGING-OD380xID210xL150mm	SB564 UNS N06617		98.8	3	-----
15	920583140000	FORGING-OD250xID120xL100mm	SB564 UNS N06617		31.6	2	-----
16	920583150000	FORGING-OD180xID80xL250mm	SB564 UNS N06617		42.7	2	-----
17	920583170000	FORGING-OD418xID335xL300mm	SB564 UNS N06617		123.1	1	-----
18	920583200000	FORGING-DIA85XL1000mm	SB564 UNS N06617		47.4	1	-----
19	920583210000	OUTLET NOZZLE FORGING	SB564 UNS N06617	4V630025463P/00	165.0	1	-----

All Materials to be supplied as per TDC: 0:436/01

Price Bid Format

Annexure- H

Sl. No	Material	Material Description	Material Specification	DRG No/Rev No	Unit Weight (kg)	Qty.	Unit price "CFR Chennai / FOR BHEL Trichy"
1	920582960000	BODY FORGING-6300	SB564 UNS N06617	4V630025460P/00	1,516.0	1	
2	920582980000	SEAT RING FORGING-6300	SB564 UNS N06617	4V630025427F/00	37.0	1	
3	920582990000	BONNET FORGING - 6300	SB564 UNS N06617	4V630025428F/01	226.0	1	
4	920583000000	NOZZLE BODY FORGING-6300	SB564 UNS N06617	4V630025429F/01	117.6	1	
5	920583010000	JETCAGE FORGING -6300	SB564 UNS N06617	4V630025430F/00	250.0	1	
6	920583020000	LOCKING RING FORGING -6300	SB564 UNS N06617	4V630025437F/00	1.5	1	
7	920583030000	BONNET FLANGE FORGING -6300	SB564 UNS N06617	4V630025446F/00	62.0	1	
8	920583040000	STEM FORGING-6300	SB564 UNS N06617	4V630025445F/01	74.0	1	
9	920583060000	GLAND FLANGE FORGING-6300	SB564 UNS N06617	4V630025438F/01	9.5	1	
10	920583070000	EXTRACTION RING FORGING-6300	SB564 UNS N06617	4V630025434F/01	1.6	1	
11	920583090000	DRIPPING TRAY RING FORGING-6300	SB564 UNS N06617	4V630025457F/00	19.1	1	
12	920583160000	FORGING-OD70xID25xL90mm	SB564 UNS N06617		2.5	4	
13	920583120000	FORGING-OD418xID305xL150mm	SB564 UNS N06617		80.5	4	
14	920583130000	FORGING-OD380xID210xL150mm	SB564 UNS N06617		98.8	3	
15	920583140000	FORGING-OD250xID120xL100mm	SB564 UNS N06617		31.6	2	
16	920583150000	FORGING-OD180xID80xL250mm	SB564 UNS N06617		42.7	2	
17	920583170000	FORGING-OD418xID335xL300mm	SB564 UNS N06617		123.1	1	
18	920583200000	FORGING-DIA85XL1000mm	SB564 UNS N06617		47.4	1	
19	920583210000	OUTLET NOZZLE FORGING	SB564 UNS N06617	4V630025463P/00	165.0	1	

* Unit Price: Price for 1 No.

Fax : 011-2306 2626



संख्या /No. 20/29/2009-Boilers

भारत सरकार

वाणिज्य और उद्योग मंत्रालय
(औद्योगिक नीति एवं संवर्धन विभाग)
उद्योग भवन, नई दिल्ली - 110107

GOVERNMENT OF INDIA
MINISTRY OF COMMERCE AND INDUSTRY
(DEPT. OF INDUSTRIAL POLICY & PROMOTION)

UDYOG BHAWAN, NEW DELHI-110107,
दिनांक/ Dated, the 8th October, 2013

To

1. All the members of the Central Boilers Board
2. All the Inspecting Authorities

Subject: List of recognised Inspecting/Competent Authorities, Well Known Steel Makers, Foundries/Forgings units, Tube/Pipe Makers, Material Testing Laboratories and Remnant Life Assessment Organizations under Indian Boiler Regulations as on 30th September, 2013.

Sir,

I am to forward herewith a copy each of the list of recognised Inspecting/Competent Authorities, Well Known Steel Makers, Foundries/Forgings units, Tube/Pipe Makers, Material Testing Laboratories and Remnant Life Assessment Organizations under Indian Boiler Regulations, 1950, as on 30th September, 2013 for your reference and record.

Thanking you,

Yours faithfully,

(S. K. Jain)

Development Officer &
Assistant Secretary, Central Boilers Board
Tel.No.011-23063166

Encl: "As above"

uploaded in @ home

*for
5/12/13*

(As on 30/09/2013)

INSPECTING AUTHORITIES

<u>NAME OF THE AUTHORITY</u>	<u>AREA OF OPERATION</u>
1. Director of Boilers, Andhra Pradesh	Andhra Pradesh
2. Chief Inspector of Boilers, Arunachal Pradesh	Arunachal Pradesh
3. Chief Inspector of Boilers Assam	Assam
4. Chief Inspector of Boilers Bihar	Bihar
5. Chief Inspector of Boilers Chhattisgarh	Chhattisgarh
6. Chief Inspector of Boilers, Delhi	N.C.T.D.
7. Chief Inspector of Boilers, Goa.	Goa
8. Director of Boilers, Gujarat.	Gujarat, Daman & Diu and Dadra & Nagar Haveli
9. Chief Inspector of Boilers, Haryana.	Haryana & Chandigarh
10. Chief Inspector of Boilers, Himachal Pradesh.	Himachal Pradesh
11. Chief Inspector of Boilers,, Jharkhand.	Jharkhand
12. Director of Boilers, Karnataka.	Karnataka
13. Director of Boilers, Kerala.	Kerala
14. Director of Boilers, Madhya Pradesh.	Madhya Pradesh
15. Director of Boilers, Maharashtra.	Maharashtra
16. Chief Inspector of Boilers, Meghalaya	Meghalaya
17. Chief Inspector of Boilers, Manipur	Manipur

- | | |
|--|---|
| 18. Chief Inspector of Boilers,
Mizoram | Mizoram |
| 19. Chief Inspector of Boilers,
Nagaland | Nagaland |
| 20. Director of Boilers,
Orissa | Orissa |
| 21. Director of Boilers,
Punjab | Punjab |
| 22. Chief Inspector of Boilers,
Labour Department,
Government of Puducherry,
Puducherry | Puducherry |
| 23. Chief Inspector of Boilers,
Rajasthan. | Rajasthan |
| 24. Director of Boilers
Tamil Nadu | Tamil Nadu |
| 25. Chief Inspector of Boilers,
Tripura | Tripura |
| 26. Director of Boilers,
Uttar Pradesh | Uttar Pradesh |
| 27. Deputy Director of Factories & Boilers
Uttarakhand | Uttarakhand |
| 28. Chief Inspector of Boilers,
West Bengal | West Bengal |
| 29. M/s. Lloyd's Register Asia
63-64, Kalpataru Square, 6 th Floor,
Kondivita Lane, Off. Andheri-Kurla Road,
Mumbai-400 059 | Tamil Nadu, Maharashtra
Karnataka, Gujarat, Haryana,
Himachal Pradesh, Punjab
& Andhra Pradesh |
| 30. M/s Bureau Veritas (India) Private Limited,
Marwah Centre, 6 th Floor,
Opp. Ansa Inds. Estate, K. Marwah Marg,
Off. Saki-Vihar Road, Andheri (East),
Mumbai-400 072 | Chhattisgarh, Gujarat
Maharashtra , Odisha &
Tamil Nadu |
| 31. M/s. TUV Nord Systems GmbH Co.KG.
Langemarckstr 20
451141 Essen
GERMANY. | Europe, Brazil, China, Korea
and Thailand |

- | | | |
|-----|--|--|
| 32. | M/s RSA
(Formerly Royal & Sun Alliance plc)
17 York Street,
Manchester, M2 3RS,
United Kingdom | Europe |
| 33. | M/s. Japan Inspection Company Limited,
No.10-7, 1-Chome, hatchobori, Chou-ku,
Tokyo, 104-0032, Japan | All countries in Asia except
India |
| 34. | M/s. S.G.S. Korea Company Limited,
Industrial Division,
647-2, Sinpyeong-dong,
Saha-gu, Busan,
KOREA (604-030). | Korea & Japan |
| 35. | M/s Bureau Veritas,
67-71, Boulevard du Chateau,
92200 Neuilly-sur-Seine,
FRANCE | All countries except India. |
| 36. | M/s. Lloyds Register Verification Ltd.,
71, Fenchurch Street,
London EC 3M, U.K. | All countries except India. |
| 37. | M/s. Velosi Certification Bureau Ltd.,
Unit 1 Woodside Business Park,
Whitley Wood Lane,
Reading, Berkshire, RG2 8LW
United Kingdom | Europe, Middle East
Countries, China, Malaysia
Singapore & USA |
| 38. | M/s TUV Rheinland AG
(Formerly: M/s TUV Rheinland Brandenburg P falz e.V.),
Am Grauen stein, D-51105 Klon,
Germany | Europe , Japan, China &
Korea |
| 39. | M/s OOO "TekhnoLogicheskieEnergostime"
1. Kalinia St. Belgorod, 308001
Russia | Russia, China, Ukraine, USA
& Germany |
| 40. | M/s Engineering Bureau Franke
International,
55, Amurskaya St.,
Dnepropetrovsk
49108, Ukraine | Ukraine, Russia, Belarus, China ,
Uzbekistan, Poland, Belgium, Romania,
& Czech Republic |
| 41. | M/s. ARISE Boiler Inspection &
Insurance Company Risk Retention Group,
Grand Bay 1, 7000 South Edgerton Road,
Suite 100, Breeksville,
OH 44141 USA | USA & Canada |

42. M/s Tata Projects Limited, All countries except India
 "Mithona Towers-I", 1-7-80 to 87,
 Opp. Wesley Co-Ed. Jr. College,
 Prenderghast Road,
 Secunderabad- 500 003, (India)
43. M/s TUV SUD Industrie Service GmbH, All countries except India
 Wstendstr. 199,
 80686 Munich,
 Germany
44. M/s Germanischer Lloyd Industrial Services GmbH, All countries except India
 Steinhoeft 9,
 20459 Hamburg,
 Germany
45. M/s. TUV Thuringen e.V., Europe
 Business Division Steam and Pressure Technology,
 Melchendorfer Str. 64,
 99096 Erfurt,
 Germany
46. M/s. SGS-CSTC Standards Technical Services Co. Ltd. China
 9th Building, No. 69,
 KangQiao Industrial Park, Block 1159,
 KangQiao East Road, Pudong District,
 Shanghai-201 319
 China
47. M/s Moody International Limited, All countries except India
 Hayworthe House, Market Place,
 Haywards Heath, West Sussex,
 United Kingdom
48. M/s ABSG Consulting Inc., All countries except India
 16855 Northchase Drive,
 Houston, TX 77060
 United States of America
49. M/s. Hartford Steam Boiler Inspection and All countries except India
 Insurance Company of Connecticut, and China
 One State Street, 8th Floor
 Hartford, CT 06141-0299
 U.S.A.
50. M/s. Certification Engineers International Limited, All countries in Europe,
 D 101-106, First Floor, Middle East & China
 International Technology Centre,
 CBD Belapur Station Complex, Navi Mumbai-400 614

COMPETENT AUTHORITIES

NAME OF THE AUTHORITY

1. Director of Boilers,
Andhra Pradesh
2. Chief Inspector of Boilers,
Arunachal Pradesh
3. Chief Inspector of Boilers
Assam
4. Chief Inspector of Boilers
Bihar.
5. Chief Inspector of Boilers
Chhattisgarh
6. Chief Inspector of Boilers,
Delhi.
7. Chief Inspector of Boilers,
Goa.
8. Director of Boilers,
Gujarat.
9. Chief Inspector of Boilers,
Haryana.
10. Chief Inspector of Boilers,
Himachal Pradesh.
11. Chief Inspector of Boilers,,
Jharkhand.
12. Director of Boilers,
Karnataka.
13. Director of Boilers,
Kerala.
14. Director of Boilers,
Madhya Pradesh.
15. Director of Boilers,
Maharashtra.
16. Chief Inspector of Boilers,
Meghalaya
17. Chief Inspector of Boilers,
Manipur

18. Chief Inspector of Boilers,
Mizoram
19. Chief Inspector of Boilers,
Nagaland
20. Director of Boilers,
Orissa
21. Director of Boilers,
Punjab
22. Chief Inspector of Boilers,
Labour Department,
Government of Puducherry,
Puducherry
23. Chief Inspector of Boilers,
Rajasthan.
24. Director of Boilers
Tamil Nadu
25. Chief Inspector of Boilers,
Tripura
26. Director of Boilers,
Uttar Pradesh
27. Deputy Director of Factories & Boilers
Uttarakhand
28. Chief Inspector of Boilers,
West Bengal
29. M/s. National Test House,
Plot No.F-10, M.I.D.C.,
Marol, Andheri (E),
MUMBAI - 400 093.
30. Welding Research Institute,
Bharat Heavy Electricals limited,
Tiruchirapalli – 620014.
31. M/s RSA
(Formerly Royal & Sun Alliance plc)
17 York Street,
Manchester, M2 3RS,
United Kingdom Europe
32. M/s. TUV Nord Systems GmbH Co.KG.
Langemarckstr 20
451141 Essen
GERMANY. Europe, Brazil, China, Korea
and Thailand

- | | | |
|-----|--|--|
| 33. | M/s. Hartford Steam Boiler Inspection and Insurance Company of Connecticut,
One State Street, 8 th Floor
Hartford, CT 06141-0299
U.S.A. | All countries except India
and China |
| 34. | M/s. Japan Inspection Company Limited,
No.10-7, 1-Chome, hatchobori, Chou-ku,
Tokyo, 104-0032, Japan | All Countries in Asia except
India |
| 35. | M/s. S.G.S. Korea Company Limited,
Industrial Division,
647-2, Sinpyeong-dong,
Saha-gu, Busan,
KOREA (604-030). | Korea and Japan |
| 36. | M/s Bureau Veritas,
67-71, Boulevard du Chateau,
92200 Neuilly-sur-Seine,
FRANCE | |
| 37. | M/s. Lloyds Register Verification Limited,
71, Fenchurch Street,
London EC3M 4BS,
UNITED KINGDOM | All countries except India |
| 38. | M/s. Velosi Certification Bureau Ltd.,
Unit 1 Woodside Business Park,
Whitley Wood Lane,
Reading, Berkshire, RG2 8LW
United Kingdom | Europe, Middle East
Countries, China, Malaysia
Singapore & USA |
| 39. | M/s. OOO "TekhnoLogicheskieEnergosistime",
1, Kalinia St. Belgorod, 308001,
Russia. | Russia, China, Ukraine, USA
& Germany |
| 40. | M/s Engineering Bureau Franke
International,
55, Amurskaya St.,
Dnepropetrovsk
49108, Ukraine | Ukraine, Russia, Belarus, China ,
Uzbekistan, Poland, Belgium, Romania,
& Czech Republic |
| 41. | M/s. National Test House,
11/1, Judges Court Road
Alipore, Calcutta - 700027 | |
| 42. | M/s. ARISE Boiler Inspection & Insurance Company
Risk Retention Group,
Grand Bay 1, 7000 South Edgerton Road,
Suite 100, Breeksville,
OH 44141 USA | USA & Canada |
| 43. | M/s TUV Rheinland AG
(Formerly:M/s TUV Rheinland Brandenburg Pfalz e.V.),
Am Grauen Stein, D-51105 Klon,
Germany | |

44. M/s National Test House,
Kamla Nehru Nagar,
Ghaziabad- 201 002
Uttar Pradesh
45. M/s TUV SUD Industrie Service GmbH, All countries except India
Wstendstr. 199,
80686 Munich,
Germany
46. M/s Germanischer Lloyd Industrial Services GmbH, All countries except India
Steinhoeft 9,
20459 Hamburg,
Germany
- 47 M/s. TUV Thuringen e.V., Europe
Business Division Steam and Pressure Technology,
Melchendorfer Str. 64,
99096 Erfurt,
Germany
48. M/s. SGS-CSTC Standards Technical Services Co. Ltd. China
9th Building, No. 69,
KangQiao Industrial Park, Block 1159,
KangQiao East Road, Pudong District,
Shanghai-201 319
China
49. M/s Moody International Limited, All countries except India
Hayworthe House, Market Place,
Haywards Heath, West Sussex,
United Kingdom
50. M/s ABSG Consulting Inc., All countries except India
16855 Northchase Drive,
Houston, TX 77060
United States of America
51. M/s. Certification Engineers International Limited, All countries in Europe,
D 101-106, First Floor, Middle East & China
International Technology Centre,
CBD Belapur Station Complex, Navi Mumbai-400 614

(As on 30/09/2013)

WELL-KNOWN STEEL MAKERS

1. M/s. Vallourec & Mannesmann Tubes,
V & M France, Aciere de Saint
Saulve, BP 10,
Rue du Galibot, 59880 Saint – Saulve,
FRANCE.
2. M/s. FACOR Steels Limited,
46 A & B, MIDC Industrial Estate,
Hingna Road,
NAGPUR-440 028
3. M/s. Kalyani Carpenter Special Steel Limited,
Mundwa,
PUNE – 411 036.
4. M/s. ISMT Ltd.,
(Steel Plant)
Jejuri – Morgaon Road, Taluk Purandara
P.O. Jejuri-412303,
Distt. Pune.
5. M/s. Tata Steel Limited,
Steel Division,
JAMSHEDPUR- 831 001
6. M/s. Jindal Steel & Power Ltd.,
Kharsia Road, P.B. No. 16,
Raigarh 496001.
CHHATISGARH
7. M/s Bharat Heavy Electricals Limited,
Central Foundry Forge Plant,
HARDWAR-249 403
8. M/s Steel Authority of India Ltd.,
Visvesvaraya Iron & Steel Ltd.,
BHADRAVATI-577 301
KARNATAKA
9. M/s Mukand Limited,
Belapur Road,
Dighe, P.O. Kalwe
Thane-400 605,
Maharashtra
10. M/s Kalyani Steel Limited,
Hospet Division, Hospet Road,
Taluka & Distt. Koppal,
GINIGERA-583228
Karnataka

11. M/s Mukand Limited,
Hospet Division, Hospet Road,
Taluka & Distt. Koppal,
GINIGERA-583228
Karnataka.
12. M/s Steel Authority of India Ltd.,
Bhilai Steel Plant ,
Bhilai-490 001
Chhattisgarh
13. M/s Mahindra Ugine Steel Company Ltd,
Jagdishnagar,
Khopoli – 410216
Distt. Raigad
Maharashtra.
14. M/s Steel Authority of India Ltd.,
Bokaro Steel Plant,
Ispat Bhavan,
Bokaro Steel City – 827001,
Distt. Bokaro,
Jharkhand.
15. M/s. Ilsenburger Grobblech GmbH,
Veckenstedter Weg 10,
D-38871 Ilsenburg,
Germany.
16. M/s HKM Huttenwerke Krupp Mannesmann GmbH,
Postfach 251124,
D47251 Duisburg,
Germany.
17. M/s. Tubos Reunidos Industrial S.L.U.,
Barrio Sagarribai 2,
01470 Ammurrio (Alava),
SPAIN.
18. M/s Jayaswals Neco Ltd,
Siltara Growth Centre, Siltara,
Raipur – 493 111,
Chhattisgarh.
19. M/s Remi Metals Gujarat Ltd.,
Plot No.1, GIDC,
Industrial Estate,
Valia Road,
Jhagadia – 393 110,
Dist.Bhaurch, Gujarat.
20. M/s Wuyang Iron and Steel co.Ltd.,
Wuyang City, Henan Pro,
P.R.China-462 500

21. M/s Adhunik Metaliks Limited,
Chadrihariharpur, Kuarmuda,
Distt. Sundergarh,
Orissa-770 039
22. M/s. Essar Steel India Limited,
(Formerly: M/s. Essar Steel Limited)
27 km, Surat Hazira Road,
Hazira- 394 270,
Surat, Gujarat
23. M/s Steel Authority of India Limited,
Alloy Steels Plant,
Durgapur- 713 208
West Bengal
24. M/s JSW Steel Limited,
Salem Works,
P.O. Pottaneri-Kallipatti Village,
Mecheri- 636 453
Distt. Salem
Tamil Nadu
25. M/s AG der Dillinger Huttenwerke,
Werkstr.1, D-66736 Dillingen,
Germany
26. Ms Shyam Forgings Pvt. Limited,
6th Milestone, G.T. Road,
Chhaprola,
Gautam Budh Nagar-201 009
Uttar Pradesh
27. M/s Sunflag Iron & Steel Co. Limited,
P.O. Bhandara Road,
Distt. Bhandara-441 905
Maharashtra
28. M/s Evraz Vitkovice Steel, a.s.,
Stramberska 2871/47,
709 00 Ostrava-Hulvaky,
Czech Republic
29. M/s Ambica Steels Limited,
51/2, Site IV,
Industrial Area, Sahibabad,
Ghaziabad- 201 010
Uttar Pradesh
30. M/s Kesri Steels Limited,
A-350, Phase-I,
RHICO Industrial Area,
Bhiwadi- 301 019
Rajasthan

31. M/s Arcvac Forgecast Limited,
Durgapur Expressway, NH-2,
Vill.-Panchghara, Dankuni-712 306
Distt. Hoogly
West Bengal
32. M/s Star Wire (India) Limited,
21/4, Mathura Road,
Ballabgarh-121 004
Haryana
33. M/s Ellwood Quality Steels Company,
700 Moravia St.,
New Castle, Pa 16101
USA
34. M/s Ellwood National Steel Company
3 Front St.,
Irvine, PA 16329
USA
35. M/s Chaudhry Steels Pvt. Limited,
C-205-206, Bulandshahr Road Industrial Area,
Ghaziabad-201 009
Uttar Pradesh
36. M/s Rashtriya Ispat Nigam Limited,
(A Government of India Enterprise)
Visakhapatnam Steel Plant,
Visakhapatnam-530 032
Andhra Pradesh

WELL-KNOWN FOUNDRIES

1. M/s. Samco Metals and Alloys Pvt. Ltd.,
Kaniyambadi-632102,
Vellore Taluk, N.A. Distt.,
TAMIL NADU.
2. M/s. Gujarat Techno-Castings Pvt. Ltd.
Near C.D. High School,
Saijpur-Bogha,
AHMEDABAD.
3. M/s. Ratan Engineering Company Pvt. Ltd.,
F-454 RIICO Industrial Area,
Bhiwadi, Distt ALWAR
RAJASTHAN
4. M/s. Uni Deritend Limited,
Maneck Nagar, Tumsar-4410912
Distt. Bhandara,
MAHARASHTRA.
5. M/s. Malnad Alloy Castings Pvt. Ltd.,
36-A, Shimoga-Bhadravathi Industrial Area,
Machenahalli-577222
SHIMOGA
6. M/s. Auto Shell Casts Pvt. Ltd.,
10, SIDCO Industrial Estate,
COIMBATORE - 641 021
7. M/s. Jsons Foundry Pvt. Ltd.,
Plot No.G/13& G-2/B, MIDC,
Kupwad Block,
Sangli-416 436
MAHARASHTRA.
8. M/s. Upper India Special Castings Limited,
Dhandari Industrial Area, Focal Point,
LUDHIANA-141 010
9. M/s. Anugraha Valve Castings Limited,
(Unit-I),
391/2, Sengoda Gounden Pudur,
Arasur Village, Palladam (TK),
COIMBATORE-641 407.
10. M/s. Aruna Alloy Steels Pvt.Ltd.,
Unit – II,
3/1, Olaganeri Village, Uthangudi Post,
MADURAI-625 107.

11. M/s. Oswal Industries Limited,
Bilesnwarpara,
P.O. Chhatral, Tal Kalol,
Distt. Gandhinagar,
Gujarat – 382 729.
12. M/s. A.V. Valves Limited,
160, Industrial Estate,
Nunhai,
AGRA-282 006.
13. M/s. Veeyes Foundry Pvt. Ltd.,
SF No.302/1 & 4, Kodathur Pirivu,
Kunnathur Vill. & Post,
COIMBATORE-641 107
14. M/s. Madura Steel Industries Pvt. Ltd.,
Chettinaickenpatty, Collectorate Post,
DINDIGUL-624 004.
15. M/s Creative Castings Limited,
102, G.I.D.C. Phase II,
Dolatpara,
JUNAGARH - 362 003
16. M/s Peekay Steel Castings (P)Ltd.,
(Foundry Division), Nallalam,
KOZHIKODE-673027,
Kerala.
17. M/s Precon Technology and Castings Limited
(Formerly: M/s PTC Industries Ltd.),
B-480, RIICO Industrial Area,
BHIWADI -301019.
18. M/s The KCP Limited,
Engineering Unit,
Post Box No. 2278,
Tiruvottiyur,
CHENNAI - 600019.
19. M/s. Saurabh Metals Pvt. Ltd.,
1,22, New Industrial Area,
Mandideep – 462 046,
Bhopal.
20. M/s. Sanmar Foundries Ltd.,
Foundry Division,
87/1, Vadugapatti Village,
Viralimalai-621316.
TAMILNADU
21. M/s. Sri Ranganaathar Industries Pvt. Ltd.,
12/45, Thadagam Road,
Edayapalayam P.O.,
COIMBATORE - 641025.

22. M/s. Aruna Alloy Steel Pvt.Ltd.,
Unit-I
Super B-6, Industrial Estate,
K. Pudur,
MADURAI - 625007.
23. M/s Hindustan Udyog Limited,
Biren Roy Road,
Ranipur, Maheshtala,
24, Paragana (South),
Kolkatta-700 141
West Bengal.
24. M/s Harihar Alloy Private Ltd.,
Unit-I, SF No. 421 & 671, Trichy-Thuraiyur Road,
PULIVALAM – 621006.
Tamil Nadu
25. M/s Coimbatore Super Alloys (P) Ltd.,
Thelungupalayam Pirivu,
Ellapalayam P.O., Annur (Via),
Pogalur - 641697.
Coimbatore Distt.
26. M/s Ultimate Alloys (P) Ltd.,
S.F. No 138/1-A,B,C,
Trichy Road, Sulur,
COIMBATORE - 641402.
27. M/s S.V.E Castings Pvt.Ltd.,
Plot No. 1 & 2, KIADB Indl. Area,
Anantapur Road,
Bellary - 583101.
28. M/s Sueeraa Alloys Global (P) Ltd.,
315/2 Kandampalayam,
Sembianallur Village,
Avanashi – 641654.
Coimbatore.
29. M/s. Sree Shiva Sai Cast Pvt. Ltd.
Survey No. 57,
Gejjenhalli,
Shimoga – 577204.
30. M/s R.K. Machine Tools Ltd.,
854, R.K. Road,
Industrial Area –A,
Ludhiana – 141003.
31. M/s Mani's Foundries (Pvt.) Ltd.,
SF No. 211 & 274,Uralipatty,
Velvarkottai (PO)
Dindigul – 624803.

32. M/s Castech Foundries Pvt. Ltd.,
1708/1709, G.I.D.C., Phase - II,
Dolatpara, Junagarh – 362003 (Gujarat)
33. M/s S.S. Alloy Products Pvt. Ltd.,
83/5, Phase-I, “F” Road,
GIDC Vatva,
Ahmedabad – 382445.
34. M/s. Sri Padmabalaji Steels P. Ltd.,
459/460, Masandipalayam,
Karakoundampalayam Post,
Annur, Coimbatore – 641 697. .
35. M/s Veeyes Steel Cast Private Ltd.,
4/363-A, Kallipalayam Village,
Chikkarampalayam PO.,
Karamadai (PO) – 641 104,
Coimbatore Dist.,
Tamilnadu.
36. M/s. Veeyes Alloys Private Limited,
Unit-II, S.F. No.518/1A&1B,
Saravanampatti- Tudiyalur Road,
Vellakinar Post,
Coimbatore – 641 029.
37. M/s. Amex Alloys Private Limited,
SF No. 289/2, Sathy Road,
Kunnathur Pudur PO,
Coimbatore 641 107.
38. M/s. Balaji Super Alloys,
Bettathapuram Pirivu,
Karamadai (PO) – 641 104
Coimbatore Dist.
39. M/s. Anugraha Valve Castings Limited,
S.F. No.307, Sengoda Gounden Pudur,
Arasur Village, Palladam (TK),
COIMBATORE-641 407.
40. M/s Aruna Alloy Steels Pvt. Ltd.,
Narasingampatti, (Unit-III)
Therkutheru,
Madurai - 625112.
41. M/s Ratnamani Techno Casts Ltd.,
3310, Phase IV, GIDC Estate, Chhatral 382 729,
Ahmedabad Mehsana Highway, Dist. Gandhinagar,
Gujarat.

- 42 M/s Nectar Steel Cast Pvt. Ltd.,
E-62, MIDC Waluj,
Aurangabad – 431 136.
- 43 M/s Western Precicast Pvt. Ltd.,
Gate No. 170, Village Savali,
Taluka Miraj, Dist. Sangli. (Maharashtra)
44. M/s Electralloy Special Steel Castings Pvt. Ltd.,
Plot No. 25, SIPCOT Industrial Complex,
6th Cross Road,
Hosur-635 126 (Tamil Nadu)
45. M/s Koso India Private Limited,
(Formerly, M/s Koso Fluid Controls (Pvt) Limited
Foundry Division,
1/80, Talungupalayam Road,
Pillayappampalayam Post,
Annur, Coimbatore-641 653
- 46 M/s Bharat Heavy Electricals Limited,
Central Foundry Forge Plant,
Ranipur, Haridwar-249 403 (Uttarakhand)
47. M/s Amsteel Castings Pvt. Limited,
35-A, Sipcot Industrial Industrial Complex,
Hosur-635 126 (Tamil Nadu)
48. M/s Neesa Infrastructure Limited,
278, Pancharatna Industrial Estate,
Vill: Changodar, Tal.: Sanand,
Distt. Ahmedabad- 382 213
Gujarat
49. M/s RLS Alloys Private Limited,
S.F. No. 118/1,2,3 Sethurapatti,
Fathimanagar,
Trichy- 620 012
Tamil Nadu
50. M/s Harihar Alloys Private Limited,
Unit II, S.F. No. 229/2 & 4B,
Laxmanampatti Village,
Kulathur(Tk),
Pudukottai-622 054
Tamil Nadu
51. M/s Leader Valves Limited,
S-3,S-4, Industrial Town,
Jalandhar-144 004
Punjab
- 52 M/s A. K. Multimetals Private Limited,
A-1, Focal Point,
Mandi Gobindgarh-147 301
Punjab

53. M/s Uttar Pradesh Steels,
Village- Nara,
P.O. Mansurpur-251 203
Distt. Muzaffarnagar,
Uttar Pradesh
54. M/s Shree Kumaran Alloys,
S.F.No. 461, Telungupalayam Road,
Ellapalayam Post
Annur,
Coimbatore-641 697
55. M/s Yama Control Company,
Old No. 26, New No. 43A, P.N.Palayam Road,
Perumal Koil Thottam,
Ganapathy
Coimbatore-641 006
56. M/s Tulip Castings Pvt. Limited,
Plot No. 29, Opp. SBI,
MIDC Shirol, - :
Kolhapur-416 122
57. M/s Flow Link Systems(P) Limited,
189/1A-1C, Uthupalayam,
Avinashi Road, Arasur
Coimbatore-641 407
58. M/s Vinayaka Electro Alloys(I) Pvt. Limited,
2/27A, Chennimalai Road,
Near Power House, Ingur
Perundurai-638 058
Distt. Erode, Tamil Nadu
59. M/s Shree Harie Steel & Alloys,
S.F. No. 461/A, Masandipalayam,
Karekavundampalayam Post
Annur-641 697
Tamil Nadu
60. M/s CRI Pumps Private Limited,
Unit: Valves-Steel Castings,
S.F. No. 51/1, Masagounden,
Chettipalayam, Kunnathur,
Pudur Post, Oraikkalpalayam,
Coimbatore-641 107
61. M/s Angalamman Alloys (P) Limited,
S.F. No. 245,1-A, 1-B,
Bettathapuram Pirivu,
Karmadai-641 104
Coimbatore Distt.
62. M/s Synergy Steels Limited ,
2, Matsya Industrial Area,
Alwar-301 030
Rajasthan

- 63 M/s Asia Alloys Precicasters Pvt. Limited,
Kodangipalayam,
Pollachi Main Road,
Coimbatore-642 109
Tamil Nadu
64. M/s Aaruran Alloys,
SF No. 385/1A,
Kulathupalayam Pudur,
Devanampalyam Post, Pollachi
Coimbatore-642 120
Tamil Nadu
65. M/s Everon Castings Private Limited,
SF No. 97/1B,
Arasampalayam Village,
Kinathukadavu, Pollachi Taluk,
Coimbatore-642 109
Tamil Nadu
66. M/s Lakshmi Ring Travellers(Coimbatore) Limited,
Foundry Division,
SF No. 452/1, Kaniyur Village,
Palladam Taluk,
Coimbatore-641 659
Tamil Nadu
67. M/s SPB Alloys Steel Pvt. Limited,
SF No. 2/4 B3 &B4,
Telungupalayam Road,
Ellapalayam Post,
Kariyampalayam Village,
Coimbatore-641 697
Tamil Nadu
68. M/s Shendhur Alloys Foundry,
2/85/5, Annur Road,
Near Vembidian Temple,
Arasur Post,
Coimbatore-641 407
Tamil Nadu
67. M/s Vankatalakshmi Alloy Castings (P) Ltd.,
344, Trichy Road,
Singanallur,
Coimbatore-641 005
Tamil Nadu
- 70 M/s AK Alloys,
Plot No. 512/7 ,Road No. 14,
GIDC, Kathwada,
Ahmedabad-382 430
Gujarat

71. M/s Apex Alloy Steel Pvt. Limited,
413/2, Phase-IV,
GIDC, Naroda,
Ahmedabad-382 330
Gujarat
72. M/s Prragathi Steel Castings Pvt. Limited,
No. 41& 42, Shimoga-Bhadravathi Industrial Area,
Machenahalli, Nidige Post-577 222,
Shimoga
Karnataka
73. M/s Acerlan S.A.De.C.V.,
Camino A San Pedro,
Ahuacatlan No. 3
Ciudad Industrial Valle de Oro,
San Juan del Rio Queretaro,
Mexico-76802
74. M/s Keokuk Steel Castings,
3972 Main Street,
Keokuk, Iowa
USA-52632
75. M/s Star Wire (India) Limited,
21/4, Mathura Road,
Ballabgarh-121 004
Haryana
76. M/s Hindustan Udyog Limited,
A-1/2, Butibori Industrial Area,
Ruikhairi, MIDC- Butibori
Distt. Nagpur-441 122
Maharashtra
77. M/s Shree Hans Alloys Limited,
201,202,203, GIDC Estate,
Dholka-387 810
Distt. Ahmedabad
Gujarat
78. M/s Peekay Steel Castings Pvt. Ltd.,
4/242, Chinnamadampalayam,
Bilchi (P.O.),
Coimbatore- 641 019
79. M/s Suryapraakaas Foundry,
No. 73, SIDCO Industrial Estate,
Coimbatore- 641 021
Tamil Nadu
80. M/s S.S.A. Castings India Pvt. Limited ,
Plot No. 90-C, Cosmofan Foundry Cluster Park-1,
Arasur,
Coimbatore- 641 407
Tamil Nadu

81. M/s Mira Alloy Steels Pvt. Limited ,
123, Sathy Road,
Kurumbapalayam,
Coimbatore- 641 107
Tamil Nadu

82. M/s Schutte Meyer Ashwath Alloys Pvt. Limited,
S.F. No. 173,
Appanaickenpatti Post, Sulur Via,
Coimbatore- 641 402
Tamil Nadu

WELL-KNOWN FORGES

1. M/s. M.M. Forgings Limited, Plant I,
Singampunari-630502.
Sivagangai District,
TAMILNADU.
2. M/s. Sadhu Forgings (P) Ltd.,
Plot No.140, Sector 24,
FARIDABAD-121 005
3. M/s. Unity Forge Limited,
D-10, Maraimalai Nagar-603 209.
Kancheepuram Distt
TAMIL NADU.
4. M/s. Vishnu Forge Industries Limited,
C-01/C-02,
HMT Industrial Estate,
BANGALORE - 560031.
5. M/s. LGB Forge Limited,
Plot No. 80 & 81, 5th Mile K.R.S. Road,
Metagalli Post,
MYSORE-570 016.
6. M/s Chaudhary & Sons(Forgings) Pvt. Limited,
Plot No. 4, Lal Kuan,
G. T. Road ,
Ghaziabad- 201 009
Uttar Pradesh
7. M/s. C.D. Engineering Company,
C-199, Bulandshahr Road,
Industrial Estate,
GHAZIABAD- 201 009
8. M/s. Steel & Industrial Forgings Limited,
Athani P.O. Mulankunnathukavu,
Thrissur Distt. Pin-680 771.
Kerala
9. M/s. MM Forgings Limited Plant 2,
Erasanayakanpatti,
Fathimanagar Post,
Viralimalai,
Pudukottai Distt.-621 316.
TAMILNADU
10. M/s Echjay Industries Private Limited,
Echjay Steel Division,
Lalpari Lake Road,
RAJKOT - 360 003.

11. M/s Ghaziabad Ispat Udyog Pvt. Ltd.,
C-89, Industrial Area,
Bulandshar Road, GHAZIABAD - 201 001.
12. M/s. CHW Forge Pvt. Limited,
Village Achheja, P.O. Dujana, G.T. Road,
Greater NOIDA-203207,
Distt. Gautam Budh Nagar,
UTTAR PRADESH
13. M/s Bharat Heavy Electricals Limited,
Heavy Electrical Equipment Plant,
Ranipur
HARDWAR-249 403
14. M/s ACME Forgings Pvt. Ltd.,
Rajkot-Gondal Highway,
P.O. T.B. Hospital,
RAJKOT-360002.
15. M/s Vikrant Forge Ltd.,
Maity Para,
Delhi Road, P.O. Dunkuni- 711 224,
Distt. Hoogly,
West Bengal.
16. M/s Vinir Engineering Pvt. Ltd.,
102-104, Bammasandra Industrial Area,
Bangalore – 560 099.
17. M/s. CD Industries,
Plot No.3, South of G.T. Road,
Industrial Area, Bulandshahr Road,
GHAZIABAD - 201 001.
18. M/s Hi-Tech Forgings (Bangalore) Pvt. Ltd.,
V-1(A), 3rd Cross,
Behind B-167/B-168, Peenya 1st Stage,
Peenya Industrial area,
Bangalore-560058.
19. M/s. The Punjab Steel Works,
B-38, Mayapuri Industrial Area-Phase 1,
New Delhi-110064.
20. M/s. Kissan Steels (P) Ltd.,
B-12, Industrial Area No. 1,
Bulandshahar Road, Ghaziabad
U.P. – 201001.
21. M/s. Thillai Engineering Works,
161, SIDCO Industrial Estate,
Ambattur,
Chennai – 600 098.

22. M/s Anandmayee Forgings Pvt. Ltd.,
5A, Industrial Area,
Site-4, Sahibabad,
Distt. Ghaziabad – 201 010 (U.P.).
23. M/s. Ommi Forge Private Limited,
No.2, Visveswaraiyah Industrial Area,
BANGALORE – 560 048.
24. M/s. Fivebros Forgings Pvt. Ltd.,
145-A, G.I.D.C. Industrial Estate,
Ankleshwar – 393 002
Gujarat.
25. M/s Bharat Heavy Electricals Limited,
Central Foundry Forge Plant,
Ranipur, Haridwar-249 403
Uttarakhand
26. M/s Alka Forgings, - :
C-20, Bulandshar Road Industrial Area,
Ghaziabad
Uttar Pradesh
27. M/s Hindon Forge (P) Lilited,
C-173, Bulandshahar Road Industrial Area,
Ghaziabad-201 001
Uttar Pradesh
28. M/s Metal Forgings Private Limited,
B 1, Mayapuri Industrial Area Phase I
New Delhi- 110064
29. M/s R.D.Forge,
(A Unit of R. D. Chemicals Pvt. Ltd.)
C-114, Bulandshar Road Industrial Area,
Ghaziabad- 201 009
Uttar Pradesh
30. M/s Lal Metal Forge Limited,
A-7/1/13, Electro Steel Casting Compound,
South Side of G. T. Road Industrial Area ,
Ghaziabad- 201 009
Uttar Pradesh
31. M/s Good Luck Engineering Co.,
Khasra No. 2839,
Gram Dhoom Manikpur,
G.T.Road, Dadri
Distt. Dautam Budh Nagar (U.P.)
32. M/s Bharat Heavy Electricals Limited,
Ramachandrapuram,
Hyderabad-502 031
Andhra Pradesh

33. M/s Utsah Engineering Private Limited,
Khasra No. 605 to 612,615 & 618
Village-Khera, Dholana Road
Pilkhuwa, Distt. Ghaziabad
Uttar Pradesh

34. M/s Arcvac Forgecast Limited,
Durgapur Expressway, NH-2,
Vill.-Panchghara, Dankuni-712 306
Distt. Hoogly
West Bengal

35. M/s BTM Forgings Pvt. Limited,
Plot No. 67/C, Tarihal Industrial Area
Tarihal
Hubli-580 030
Karnataka

36. M/s Innoforge Pvt. Limited,
Shed No. B2/2,
SIDCO Industrial Estate Phase I,
Hosur-635 126
Tamilnadu

37. M/s Kisaan Die Tech Pvt. Limited,
Plot No. A-7/4 & A-7/13,
Electro Steel Compound, S.S.G.T. Road
Ghaziabad-201 001
Uttar Pradesh

38. M/s Steel Smith,
C-168, Bulandshahar Road Industrial Area
Ghaziabad-201 001
Uttar Pradesh

39. M/s Kunj Forgings(P) Limited,
C-177, Bulandshahar Road Industrial Area
Ghaziabad-201 001
Uttar Pradesh

40. M/s Ghaziabad Forgings Pvt. Limited,
C-6, Industrial Area, Meerut Road,
Ghaziabad-201 003
Uttar Pradesh

WELL-KNOWN TUBE AND PIPE MAKER

1. M/s. Bharat Heavy Electricals Limited,
Unit Seamless Steel Tube Plant,
Tiruchirapalli-620014.
TAMILNADU
2. M/s Vallourec & Mannesmann Tubes,
V&M Deutschland GmbH, Wiesen Strasse 36,
45476 Muelheim an der Ruhr, Germany.
3. M/s Vallourec & Mannesmann Tubes,
V&M Deutschland GmbH, Ratherkreuzweg, 106,
D-40472 Duesseldorf, Germany.
4. M/s Vallourec & Mannesmann Tubes,
V&M Deutschland GmbH, Henkelstrasse, 209,
D-40599 Duesseldorf, Germany.
5. M/s Vallourec & Mannesmann Tubes,
Saint Saulve Tube Plant, Z I rue du Galibot, B P 2,
59880 Saint Saulve, France.
6. M/s Vallourec & Mannesmann Tubes,
Aulnoye Tube Plant, 64, rue de Leval B P 159,
59620 Aulnoye Aymeries, France.
7. M/s. Tata Steel Limited,
Tube Division,
P.O. Burma Mines
JAMSHEDPUR.-831 007
8. M/s. Maharashtra Seamless Ltd.,
Village Sukeli, NH 17,
B.K.G. Road, Taluka Roha,
Distt. Raigarh-402 126.
MAHARASHTRA.
9. M/s. ISMT Ltd.,
Plant B,
B-13, M.I.D.C., Baramati,
Distt. Pune – 413 133.
10. M/s Tube Products of India,
Welded Pipes & Tube Division,
Avadi,
CHENNAI – 600 054.
11. M/s. Tubos Reunidos Industrial S.L.U.,
Barrio Sagarribai 2,
01470 Ammurrio (Alava),
SPAIN.

12. M/s Jindal Pipes Ltd.,
22nd Mile, Delhi-Hapur Road,,
P.O. Jindal Nagar,
GHAZIABAD-201 302
13. M/s ISMT Ltd.,
C-1, MIDC Industrial Area,
Nagapur,
AHMEDNAGAR-414111.
14. M/s Ratnamani Metals & Tubes Ltd.,
SS Plant, Survey No. 769,
Ahmedabad - Mehsana Highway,
Village Indrad – 382 729
GUJARAT.
15. M/s Ratnamani-Metals & Tubes Ltd.,
Kutch Division, Survey No. 474,
Anjar- Bachau Road ,
Village Bhimsar – 370 240
Taluka Anjar ,Distt. Kutch, GUJARAT
16. M/s. Mahalaxmi Seamless Ltd.,
Pipe Nagar (Sukeli), Via Nagothane,
Tal. Roha, Distt. Raigarh,
Maharashtra-402126.
17. M/s. Tube Investment of India Ltd.,
Unit: Tube Products of India,
Shirwal P.O., Khandala Taluka,
Satara District,
Maharashtra – 412 801.
18. M/s Jindal Saw Ltd., (Seamless Tube Div),
Plot No. A-59/60, Malegaon MIDC,
Sinnar-422 113,
Dist. Nashik – Maharashtra.
19. M/s Dalmine S.p.A.-Dalmine Plant,
Piazza caduti 6 luglio 1944,
24044 Dalmine (Bnergamo)
Italy.
20. M/s Dalmine S.p.A.-Costa Volpino Plant,
Via Pio, 1,
24062 Costa Volpino (Bergamo)
Italy.
21. M/s SC Mittal Steel,
Cordun Village, Roman-lasi Highway,
Km. 333, Nearmt County, Romania.

22. M/s. Lalit Pipes & Pipes Ltd.,
Survey No.77,
Village Varaskol,
Khardi Railway Station (C.R.),
Tal. Shahpur, Dist Thane,
Maharashtra.
- 23 M/s Tube Products of India,
A-16-17, Industrial Focal Point,
Phase – VI,
S.A.S. Nagar, Mohali-160 055,
Punjab.
24. M/s Remi Metals Gujarat Ltd.,
(Seamless Steel Tube Plant)
Plot No.1, GIDC,
Industrial Estate,
Jhagadia – 393 110,
Dist. Bharuch, Gujarat.
25. M/s Heavy Metal & Tubes limited,
101, Bileshwarpura,
Ta.: Kalol, Distt. Gandhinagar,
Gujarat
26. M/s Heavy Metal & Tubes limited,
138, Bileshwarpura,
Ta.: Kalol, Distt. Gandhinagar,
Gujarat
27. M/s Bhushan Steel Limited,
Vill. Nifan & Savroli,
Savroli-Kharpada Road,
Tal.: Khalapur, Distt. Raigad-410 202
Maharashtra
28. M/s Tenaris Silcotub, S.C. Silcotub S.A.,
Mihai Viteazul No. 93,
450131 Zalau,
Romania
29. M/s JR Seamless Pvt. Limited,
(Seamless Steel Tube Plant)
129-131, Chegunta Village & Mandal,
Medak District-501 255
Andhra Pradesh
- 30 M/s Maharashtra Seamless Limited,
Vile Bhagad MIDC, Plot No. 114
Vill. Aarchiwadi, Mangaon,
District Raigad-402 308
Maharashtra

31. M/s Scorodite Stainless (I) Pvt. Limited,
E-123/125 & G-126/128,
RIICO Industrial Estate, Makhupura
Sanchore-343 041
Rajasthan

32. M/s Benteler Steel/Tube GmbH,
Luisenstrasse 117,
46537 Dinslaken,
Germany

(As on 30/09/2013)

WELL KNOWN PIPE MAKERS

1. M/s Productos Tubulares S.A.U,
Carretera Galindo a Ugarte s/n,
8510 - Valle de Trapaga,
(Vizcaya)
SPAIN.
2. M/s Surindra Engineering Co. Ltd.,
Surindra House, Safaid Pool,
M.V. Road, Andheri (East),
MUMBAI - 400072.
3. M/s Mukat Tanks & Vessels Pvt. Ltd.,
J-11/G-69, MIDC Industrial Area,
Tarapur, Distt.-Thane,
Maharashtra
4. M/s Ratnamani Metals & Tubes Ltd.,
Carbon Steel Plant, Plot Nos. 3306 to 3309,
GIDC Estate, Phase IV
Ahmedabad - Mehsana Highway,
Village Chhatral, -382 729
Taluka Kalol, District Gandhinagar
GUJARAT.
5. M/s Zelezarny Veseli a.s.
Division Valcovny trub Chomutov,
Libusina 4778, 430 01 Chomutov
Czech Republic
6. M/s IBF SPA,
Pipes Division,
Via Ghandi 17/19-20010,
Vittuone(Milan),
Italy
7. M/s Wyman Gordon Forgings, Inc.
10825 Telge Road,
@ Highway 290,
Houston, Texas 77095
USA

(As on 30/09/2013)

WELL KNOWN TUBE MAKERS

- 1 M/s CST Valinox Limited,
9-14, Isnapur,
Patancheru
Medak District-502 307
Andhra Pradesh

(As on 30/09/2013)

WELL-KNOWN MATERIAL TESTING LABORATORIES

1. M/s. R.K. Inspection & Testing Services,
C-196/2, Mayapuri, Phase-II,
NEW DELHI-110064.
2. M/s National Test House,
11/1, Judges Court Road,
Alipore,
Kolkata-700 027
3. M/s National Test House,
Plot No. F-10, MIDC,
Marol, Andheri (E),
Mumbai-400 093
4. M/s IRC Engineering Services India Pvt. Ltd.,
A-53, Sector 63,
Noida-201 301
5. M/s Spectro Analytical Labs Limited,
E-41, Okhla Industrial Area,
Phase-II,
New Delhi-110 020
6. M/s National Test House,
Kamla Nehru Nagar,
Ghaziabad-201 002
Uttar Pradesh
7. M/s Cheema Boilers Limited,
Vill. Banmajra, P.O. Kurali,
District Ropar,
Punjab-140 103

(As on 30/09/2013)

WELL KNOWN REMNANT LIFE ASSESSMENT ORGANISATIONS

1. M/s Bharat Heavy Electricals Limited,
High Pressure Boilers Plant,
TIRUCHIRAPALLI - 620014.
2. M/s Tata Power Company Limited,
Trombay Thermal Power Station,
Mahul Road, Chembur,
MUMBAI - 400074.
3. M/s. Thermax Limited,
D-II Block, Plot No. 38 & 39,
MIDC, Chinchwad ,
Pune- 411 019
4. M/s. Central Power Research Institute,
Thermal Research Centre,
Chhindwara Road,
KORADI.-441 111
5. M/s. Central Mechanical Engineering Research Institute,
Mahatma Gandhi Avenue,
DURGAPUR-713 209
6. M/s. Utility Powertech Ltd.,
'UPL House',
W-24, Sector-11,
Noida-201 301
Uttar Pradesh
7. M/s NTPC Alstom Power Services Pvt. Ltd.,
1st Floor, Tower- B,
Indian Glycol Limited Building,
Plot No -2B, Near Lotus Valley School,
Sector- 126, Noida- 201 304
Uttar Pradesh
8. M/s Energo Engineering Projects Pvt.Ltd.,
A 57/4, Okhla Industrial Area,
Phase-II,
New Delhi – 110 020.
9. M/s NDE Inspection,
50 – Fourth Cross, Raja Colony,
Collector Office Road,
Tiruchirapalli – 620 001.
10. M/s IRC Engineering Services India Pvt. Ltd.,
612, Chiranjiv Tower,
43, Nehru Place,
New Delhi – 110019.

11. M/s NTPC Energy Technology Research Alliance(NETRA),
E-3, Ecotech-II
Udyog Vihar,
Greater Noida-201 308
Uttar Pradesh.
12. M/s Electrical Research and Development Association,
ERDA Road, GIDC, Makarpura Industrial Estate,
Vadodara-390 010
Gujarat
13. M/s Steag Energy Services (India) Private Limited,
(Formerly Evonik Energy Services (India) Private Limited),
A-29, Sector- 16,
Noida-201 301
Uttar Pradesh
14. M/s Perfect Inspection Services,
265, Light Industrial Area,
Bhillai
Chhattisgarh
15. M/s ND Tech Consultants Pvt. Limited,
90A-Pocket 1,
Mayur Vihar Phase-I
New Delhi- 110 091
16. M/s ASP Industrial Test House Pvt. Limited,
87 (First Floor),
Navyug Market
Ghaziabad- 201 001
Uttar Pradesh
17. M/s National Metallurgical Laboratory,
(Council of Scientific & Industrial Research)
Burmamines,
Jamshedpur-831 007
Jharkhand
18. M/s Test Metal Corporation,
39/3, Canal West Road,
Kolkata-700 004
19. M/s TCR Advanced Engineering Pvt. Limited,
36/2/9,1st Floor, Abhishek Complex,
GIDC Estate, Makarpura,
Vadodara-390 010
Gujarat
20. M/s Alstom India Limited,
GIDC, Maneja
Vadodara- 390 013
Gujarat

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

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

PERFORMANCE BANK GUARANTEE

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

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

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

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

5. (I) Unless a demand or claim under this guarantee is made on us in writing on or before the _____ we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.

(ii) For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Ack.Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.

6. We(indicate the name of Bank), further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would, but for this provision, have effect of not so relieving us.

7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

8. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealised.

9. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirapalli.

10. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the guarantor.

11. We(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

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



Annexure - L

BHARAT HEAVY ELECTRICALS LIMITED
Tiruchirappalli – 620014
Materials Management – Valves/Purchase

Ref: Inconel 617:OT: Enquiry

DT: 18.08.2014

General terms and conditions for Reverse Auction

BHEL reserves the option to either finalize the tender by opening sealed price bids (Part-II) submitted with the offer on a specified date and time in the presence of bidders, who may like to be present; or carrying out live reverse auction on-line. In case of reverse auction, adequate infrastructure like internet connection, uninterrupted power supply, printer, fax machine etc. will have to be arranged by bidder. BHEL will engage a service provider who shall interact, educate, guide and coordinate with bidder for reserve auction. Date and time of reverse auction shall be informed.

Against this enquiry for the subject items/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).

- a) For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- b) 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 extent guidelines in vogue.
- c) 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.
- d) In case of Reverse Auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
- e) Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
- f) 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.

- g) In line with NIT terms, BHEL will provide the calculation sheet (e.g., Excel sheet) which helps 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.
- h) Reverse Auction will be conducted on scheduled date & time.
- i) At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
- j) The lowest bidder has to fax/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.
- k) 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.
- l) 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 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.
- m) 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 extent BHEL guidelines shall be initiated by BHEL and the results of the RA scrapped/aborted.
- n) The Bidder shall not divulge either his bids or any other exclusive details of BHEL to any of BHEL to any other party.

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.

P.W.Gregory
SM/MM/Valves

FORM III-F

**Certificate of Manufacture and test of castings and forgings
(Regulations 73 to 80 or 81 to 85 as applicable)**

Certificate No.

Name of part.....

Maker's name and address.....
.....

Main dimensions.....

Drawing Nos.

Identification Marks.....

Chemical composition.....

Physical test results.....

- (i) Tensile strength.....
- (ii) Transverse bend test.....
- (iii) Elongation.....

Certified that the particulars entered herein by us are correct. This satisfies the requirements of Indian Boiler Regulations, 1950.

Maker's Representative
(Name and signature)

MONOGRAM/
SEAL

MAKERS _____

FORM IV-A
CERTIFICATE OF MANUFACTURE AND RESULTS OF TESTS
IN LIEU OF FORM IV
[Regulation 4 (c) (iv)]

It is hereby certified that original steel Maker's certificate in Form IV contain following information in respect of the material used in the manufacture of boiler or parts thereof bearing Makers Number, Sample and according to Drawing Number:

Part of Boiler	Quantity	Cast/Heat No.	Plate No.	Steel making Process	Specifi- cation	Deoxidation

Name of Steel Maker/ Part Maker	Test piece No.	Certificate No. & Date	Length/Breadth/ O. D. Thickness	Heat Treatment

% Chemical Analysis					
Cr	Mn	P	S	Si	Other alloying elements

Mechanical Properties				
Y. S. kg/mm ²	UTS (kg/mm ²)	Elongation % GL	Bend Test	Remarks

Official Seal

INSPECTING AUTHORITY

Note: Where the steel is manufactured by a maker, who is not recognised as a Well-known Steel Maker, the certificate of test shall be signed by the Inspecting Authority."