



# BHARAT HEAVY ELECTRICALS LIMITED

( A Government of India Undertaking )  
HIGH PRESSURE BOILER PLANT  
PURCHASE DEPARTMENT - FOSSIL BOILERS  
THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

PHONE :2577042  
GRAMS : BHARATELEC  
FAX NO: 2520719  
E-mail: agk@bheltry.co.in  
Web:

429-002/A

	<b>Enquiry No</b> 1201600010	<b>Enquiry Date</b> 26.03.2016	<b>Due Date for Quotation</b> 26.04.2016
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. <b>Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date &amp; Enq. Due date must be written on all three covers.</b>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	159511105500 ERW PIPE 508.00 X12.70X5500- SA312TP304H	M	44.000	44.00	12.07.16
20	159511115500 ERW PIPE 457.00X20.00X5500 - SA312TP304H	M	55.000	55.00	12.07.16
30	159511125000 ERW PIPE-406.4X28 (MIN) X5000- SA312TP304H	M	10.000	10.00	12.07.16

**General Note:**

- 1.) SUPPLY SHALL BE AS PER SIZE & SPECIFICATION SA312TP304H LATEST (2015) MENTIONED AGAINST EACH ITEM.
- 2.) ALL ENQUIRY TERMS AND CONDITONS ARE MENTIONED IN ANNEXURE-A & ANNEXURE-B. SUPPLIERS SHOULD ATTACH THE DULY FILLED AND SIGNED ANNEXURE-A & B ALONG WITH THEIR OFFER.
- 3.) REVERSE AUCTION WILL NOT BE CONDUCT FOR THIS ENQUIRY.
- 4.)ALL THE INDIGENOUS SUPPLIER HAS TO QUOTE THEIR OFFER ON FOR-TRICHY DESTINATION BHEL STORE INCLUSIVE OF ALL CHARGES INCLUDING PACKING, FORWARDING, INSPECTION, TRANSPORTATION & TESTING.
- 5.) OFFER WILL BE EVALUATED ON FOR-LANDED RATE ITEM WISE ONLY.
- 6.)ALL IMPORT SUPPLIERS SHOULD SUBMIT THEIR OFFER ON CFR-CHENNAI INCLUSIVE OF ALL CHARGES, INCLUDING TESTING PACKING, INSPECTION & FORWARDING ETC.
- 7.)ALL PIPES (IMPORT/INDIGENOUS)SHOULD BE FREE FROM TELESCOPIC LOADING.
- 8.) ONLY LONG SEAM WELDED PIPES ARE ACCEPTABLE. SPIRAL WELDED PIPES ARE NOT ACCEPTABLE.

All the tenders may be addressed to the following address:

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,



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THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

PHONE :2577042  
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FAX NO: 2520719  
E-mail: agk@bheltry.co.in  
Web:

1201600010 / 26.03.2016

23505

The Tender Opening Cell / MM  
Room No: 26, Building 24, Ground Floor  
Bharat Heavy Electricals Limited  
TIRUCHIRAPALLI 620014

In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit the offers well before this time. All due date extension requirements should be addressed to the respective Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours before the due date and time.

Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable situation, offers shall be sent through e mail to the following mail ID only tender\_cell@bheltry.co.in.

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

The offers will be opened at 14.30 hrs on the due date of the tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

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

Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders.  
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE  
(FOSSIL BOILERS)  
Yours faithfully,

# BHARAT HEAVY ELECTRICALS LIMITED

MM/RM/PURCHASE/PIPES

BHEL / TRICHY-620 014.

**ANNEXURE-A -Rev 02**


ENQ NO- OT- 1201600010

Enquiry Terms & Conditions for Supply of Long Seam Welded SS Pipes

**Note:** This Annexure has to be mandatorily filled & signed by the manufacturer (or) mill and submitted along with Technical bid.

Sl No	BHEL Requirements	Supplier Comments (Acceptance or otherwise for each point to be given)
01.	<b>Material specification:</b> Supply shall be made strictly as per Specifications mentioned in the enquiry.	
02.	<b>Specification, Size &amp; Quantity:</b> a) Specification, size and quantity shall be as given in enquiry. b) All pipes are to be supplied fully meeting the SPECIFICATION SA312TP304H LATEST (2015). If there is any deviation, the same should be mentioned clearly in the offer itself. c) All pipes are to be stenciled and colour coded, longitudinally and continuously throughout the length of the pipe with specific details (PO NO, DESCRIPTION, HEAT NO, SUPPLIER EMBLEM/CODE, INSPECTOR SEAL IF ANY) and the SIPPP 21 Rev 06. d) All pipes are to be supplied to the specific length detailed in the description. Any deviation in length has to be indicated in the offer itself. Supplier shall indicate the place of manufacture & mill name in the offer.	
03	<b>Offer Submission:</b> ➤ Tenders will be finalized on "TWO part basis". ➤ The offer is to be submitted within 2.00 P.M on or before the due date. Late offers will not be considered.	
04.	<b>Terms of Delivery :</b> <b>A. Indigenous:</b> a) Bidders should submit their offer for FOR Destination -BHEL Stores, Trichy. The quote should be inclusive of all charges, including testing packing, inspection etc. b) Any other extra charges like ED, CST/VAT etc. are to be indicated clearly. The offer will be evaluated on total landed cost to BHEL Trichy. c) CENVAT CREDIT: If any excise Duty is payable, the chapter head / sub-head reference and the rate of the duty should be quoted. If the tenderer is availing CENVAT credit for this input material, the effect of preformed credit should be passed on to the purchaser. Tenderer under CENVAT shall be preferred. <b>B. Imports:</b> Bidders should submit their offer for CFR / Chennai Port basis and Place of delivery INTVT6- CONCOR ICD. Port of loading should be indicated without fail. Port of discharge should be Chennai and place of delivery - INTVT6- CONCOR ICD <b>FOR CFR INCO TERMS – CONTAINERIZED CARGO</b> a.) For CFR terms, moved through CONTAINERS (Suppliers should clearly specify this in their offer) it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis including extra charges, if any, like Container Imbalance Charges, Trade Imbalance charges or any other charges payable to the Liner. No other charges other than the quoted Freight rate will be paid by BHEL excepting applicable Terminal Handling Charges, Container cleaning Charges, DO charges to Shipping Liner at Discharge Port. 14 FREE DAYS FOR Container detention shall be provided. If any deviation is taken by Tenderer, a loading of 22% on the freight rate per MT shall be considered by BHEL for arriving at the Total landed Cost. b.) In case of shipment through Containers on CFR basis, the BL should bear the endorsement that "14 free days for Container Detention is applicable". c.) Place of delivery – INTVT6 – CONCOR ICD should be clearly specified in the Bill of Lading. <b>BREAKBULK CARGO</b> a.) For CFR terms, moved through BREAK BULK BASIS (Suppliers should clearly specify this in their offer) it would be presumed by BHEL that the freight charges quoted is on LILO (LINER IN LINER OUT) basis. b.) Place of delivery – INTVT6 – CONCOR ICD should be clearly specified in the Bill of Lading.	

<p>05.</p>	<p><b>Payment terms:</b>  <b>A. Indigenous:</b></p> <p>i) BHEL Payment term is 100% direct EFT payment after 45 days from the date of receipt and acceptance of materials.</p> <p>ii) The duplicate copy of the invoice meant for the transporters should accompany the material as stipulated under C.E. rules 52a and 173c (or) 57gg. A Photostat copy of the above invoice for each Delivery Chelan should be submitted along with the original bills routed through bank or submitted directly to BHEL finance department.</p> <p>iii) Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p> <p>iv) Payment through bank is not preferred. In case of payment through bank is opted by supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of goods to site/stores with consignee copy attached. In this case loading will be 3% on the offered value.</p> <p>v) Offers of indigenous Suppliers with payment terms as LC / Advance Payment are liable for rejection.</p> <p><b>B. Imports:</b></p> <p>i) BHEL Payment term is 100% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account.</p> <p>ii) Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p> <p>iii) If the LC payment is insisted, <b>TWO</b> sets of original TCs to be submitted prior to dispatch and a certificate to that effect from BHEL should form a part of the documents to be negotiated. If this condition is not complied by the vendor, the offer is liable for rejection.</p> <ul style="list-style-type: none"> <li>➤ In the case of Usance LCs at 45 days(from the date of receipt of documents from BHEL bank), the loading will be considered @ 1.5% on the offered Value.</li> <li>➤ Normally CAD at sight and Confirmed LCs are liable for rejection.</li> <li>➤ Irrespective of loading, no other payment term will be entertained other than USANCE LC or CAD after 45 days as indicated above.</li> </ul>	
<p>06.</p>	<p><b>Delivery:</b>  The offer shall clearly indicate delivery period in fixed number of weeks/Months from the date of Purchase Order.</p>	
<p>07.</p>	<p><b>Liquidated Damage (Indigenous &amp; Imports):</b></p> <p>1. Liquidated damages shall be 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.</p> <p>2. Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p> <p>3. a) IMPORT:.  For CFR terms, LD will be calculated from BL date.  b) INDIGENOUS: For "FOR Delivery terms", Lorry way bill date and for "Ex-work delivery terms" final inspection certificate date / intimation of readiness whichever is later will be taken for LD calculation.</p>	
<p>08.</p>	<p><b>Risk Purchase clause :</b>  BHEL at its option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute thereof. The supplier shall be liable for any loss which BHEL may sustain by reason of such risk purchases in addition to LD at the maximum rate mentioned in the LD clause above. Confirm your acceptance.</p>	
<p>09.</p>	<p><b>Performance Bank Guarantee :</b>  The Bidder, in the event of an order, should furnish a bank Guarantee from BHEL's consortium banks (List attached) or counter – guaranty by vendor's bank to BHEL's consortium banks, at no extra cost to BHEL, in a proforma prescribed by BHEL, provided along with the order, for an amount equivalent to 10% of the contract value. The BG shall be valid for period of 18 months from the date of last shipment or 12 months from the date of receipt / acceptance at BHEL, Trichy whichever is later, with a claim period of two months.</p>	
<p>10.</p>	<p><b>Validity:</b> Offer/Price validity of <b>60 days is required</b> after the price bid opening in case you are technically and commercially qualified.</p>	

11.	<p><b>Agency Commission :</b></p> <ul style="list-style-type: none"> <li>➤ In respect of offers from overseas suppliers, agency commission, if any, payable to their agents in India, shall invariable be shown separately in the Performa invoice and this will be paid by us in India, in Indian rupees, on satisfactory completion of the contract.</li> <li>➤ If overseas principal has any tie-up with any third party in respect of agency commission it should be declared while submitting offers.</li> <li>➤ Copies of current agency agreement / authorization letter in respect of agency commission shall be furnished along with offer, if not made available earlier.</li> <li>➤ For calculation of rupee equivalent agency commission, exchange rate as prevailing on the date of order will be taken.</li> </ul>	
12.	<p><b>General condition:</b></p> <ul style="list-style-type: none"> <li>a) In addition to TCs in corresponding mill TCs should also be provided along with dispatch of pipes. Two sets of original and one copy of all such TCs are to be provided to BHEL, TRICHY.</li> <li>b) All SS pipes are to be surface treated as per ASTM380 both inside &amp; outside. Ends to be protected suitably.</li> <li>c) We require the shipment of the pipes to be as per the dates mentioned against the individual items in the enquiry.</li> <li>d) Confirmation for partial ordering to be indicated in the offer itself.</li> <li>e) No revision of prices will be entertained after the tenders are opened.</li> <li>f) For the evaluation purposes, exchange rate (TT selling rate of SBI) as on schedule date of tender opening (Part I, i.e technical bid, in case of two part bid) shall be considered.</li> <li>g) BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</li> <li>h) Lowest price received against BHEL tenders need not be the technically acceptable one and in that case, BHEL reserves the right not to consider the same.</li> <li>i) BHEL reserves the right to negotiate L1 rate or re-float the tender opened if L1 price is not the lowest acceptable price to them inter-alia other reasons.</li> <li>j) In the event of our customer order covering this tender being cancelled / placed on hold / otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender / your purchase order at any stage of execution.</li> <li>k) Offer will be evaluated based on Landed cost to BHEL Trichy on item basis.</li> <li>l) No payment will be made for the positive cutting allowance portion (Beyond PO Qty)</li> <li>m) The offers of the bidders who are on the banned list as also the offer of bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on the BHEL website -www.bhel.com.</li> <li>n) If the supplier has not supplied any manufactured seamless pipes/welded pipes to BHEL till time, the Pre dispatch inspection may carried out if the vendor became L1.</li> </ul>	
13	<p><b>Fraud Prevention Policy</b>          "The bidder along with its associate/collaborators/sub-contractors /consultants/service providers shall strictly adhere to BHEL Fraud prevention policy displayed on BHEL website <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL Management about fraud or suspected fraud as soon as it comes to their notice"</p>	
14	<p><b>Enclosures:</b></p> <ul style="list-style-type: none"> <li>a) Enquiry</li> <li>b) SIPP</li> <li>c) PBG Format</li> </ul>	<ul style="list-style-type: none"> <li>d) List of consortium banks</li> </ul>
<p style="text-align: center;"> (On behalf of BHEL)</p>		<p style="text-align: center;"><b>SIGNED BY MANUFACTURER / MILL</b></p> <p>Name of Mill:          Designation / Department:          Seal &amp; Signature</p>

**ENQ TERM & CONDITION- OT- LONG SEAM WELDED SS PIPES**  
**ANNEXURE- B**

ENQUERY NO: 1201600010

ENQ DT: 26.03.16

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1) Please submit your offer in TWO part bid (technical cum commercial bid in one cover and price bid in another cover) in single cover. The Covers should be duly super scribed with the ENQUIRY NO and DUE DATE in BOLD letter without fail.

2) All Pipes are to be supplied fully meeting the material specification. If there is any deviation, the same should be mentioned clearly in the offer itself.

3) Material specification, Pipe OD, wall thickness & length should be strictly as per enquiry.

4) Offered length shall be as per enquiry. Positive cutting allowance is acceptable. However, No Payment will be made for cutting allowance portion.

5) Bidders shall submit their OFFER in English language (a single envelope containing two inner Envelopes) as indicated below: Envelope 1: This sealed envelope should contain (a) technical bid (b) un-priced commercial bid (copy of the Priced Bid without the price detail).

This envelope should be clearly marked "Part 1 - Technical and Un-priced commercial bid, indicating Enquiry No., Due Date, address & Reference of the Bidder.

Envelope II: This sealed envelope should contain price details. This envelope should be clearly marked "Part II - Price bid", indicating enquiry No., Due Date, Address & Reference) of the Bidder.

6) The OFFER, sealed and Super scribed as "Parts 1 & 2 inside" indicating Enquiry No., Due Date, Address & Reference of the Bidder should reach this office on or before the due date by 14:00 Hrs (IST).

**OFFERS RECEIVED AFTER 14:00 HRS (IST) WILL NOT BE CONSIDERED FOR EVALUATION.**

7) OFFER is to be addressed to:

**The Tender Opening Cell/MM**  
**Room No-26, Building — 24, Ground Floor**  
**Bharat Heavy Electrical Limited**  
**Tiruchirapalli- 620014.**  
**Tamil Nadu, India.**

- In case personal delivery of the offer, it shall be dropped into the respective box after duly entering the data in the system kept in room no 26.
- Offers will be accepted received till 14.00 hrs on the due date. Therefore Vendors shall ensure to submit the offers before this time.
- Vendors are requested to avoid submission of offers through email / fax. In case of any unavoidable situation, offers shall be sent through email to the following mail ID only **tender\_cell@bheltry.co.in**
- As such Tenders are being opened by Common Tender opening Cell , offer covers should be sealed with tender's distinctive seal and super scribed with correct Tender NO, item of supply and due date of Opening

8) Tenders should be free from CORRECTION AND ERASURES, Corrections if any, must) be attested.

A.) If, in the price structure quoted for the required goods, there is discrepancy between the Unit price and the total price (which is obtained by multiplying the unit price by quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.

B.) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.

**ENQ TERM & CONDITION- OT- LONG SEAM WELDED SS PIPES**  
**ANNEXURE- B**

ENQUERY NO: 1201600010

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C.) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (A) and (B) above.

Note: Bidders are requested to submit their offers only through sealed bids. As the part II (priced bid) will not be opened before the technical evaluation is completed, bidders are requested not to submit their bids through email/fax etc.

9) **Fixed price:** All items should be quoted on "Per unit basis". Prices quoted by the bidder 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 liable for rejection.**

Prices shall be written in words and figures. In the event of any discrepancy which regard to total price and unit price, whichever is less shall be considered correct.

All rates should include the all charge including packing, inspection, forwarding etc. **NO EXTRA PAYMENT WILL BE MADE IN ANY CASE.**

10) **Bid currency:** Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit their bid in their preferred currency. For the evaluation purposes the exchange rate (TT - Selling Rate of SBI) on technical bid opening date will be considered.

11) The offer is to be signed and sealed in original by the bidder without fail.

12) BHEL prefers the manufacturers to quote directly. In case this is not possible and the offer is being submitted by an Indian agent, the following details are to be furnished along with the offer:

a) The letter from their Principal authorizing the Indian agent to submit the offer on behalf of their Principal. In case the Indian agent submits offer on their own letter head then a covering letter (in original) from the Principal should be enclosed, clearly mentioning that they are bound by the offer submitted by the Indian agent on their behalf.

b.) Precise relationship between foreign suppliers and their Indian agents and their mutual interest In business, should be clearly spelt out.

c.) Any payment, which the agent receives in India or abroad, from the foreign supplier, whether as a commission or as a general retainer fee is to be mentioned in the offer.

d.) All services to be rendered by the agent, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier and the Indian agent.

e.) The amount of agency commission agreed to between the foreign principal and the Indian agent should be specifically disclosed and the agency commission will be paid in Indian Rupees only on satisfactory completion of the contract.

f.) For calculation of rupee equivalent of agency commission, exchange rate as prevailing on the date of order will be taken.

g.) Copy of current agency agreement is to be enclosed Offers with non-compliance to any of the above, offer will be liable for rejection.

13) Offer from traders & stockists are not acceptable and will not be considered for evaluation.

14) Bidders who are not registered vendor of BHEL- TRICHY have to submit the filled in supplier registration forms (SRF) available in the BHEL website - [www.bhel.com](http://www.bhel.com) and the other required documents called in the SRF (including D&B reports for import vendors), should submit along with the technical bid without fail and the same shall be scrutinized as per BHEL evaluation procedures. **OFFERS SUBMITTED WITHOUT THIS WILL BE REJECTED.**

**ENQ TERM & CONDITION- OT- LONG SEAM WELDED SS PIPES**  
**ANNEXURE- B**

ENQUIRY NO: 1201600010

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15) All vendors (BHEL registered vendors or new vendors) should submit an **experience certificate** detailing the quantity supplied spec wise year wise along with the unpriced PO copies and proof of supply (such as invoice & bill of lading copies) along with the offer for the tendered specifications /similar welded spec pipes and test certificates for the same for offer acceptance.

a) All vendors (BHEL registered vendors or new vendors) shall submit-the facilities available at the mill - starting material to finished product, manufacturing quality plan, inspection & test plan to meet the specification requirements) along with the technical bid should be submitted without fail. The same shall be scrutinized as per BHEL evaluation Procedures. **Offers submitted without this will be rejected.**

16) If supplier is not a steel maker then **source of raw material** for the manufacturing of tendered tubes/pipes shall be submitted.

17) BHEL/End customer reserve the right to inspect the item ordered at any stage at vendor's works and if found not to meet the stipulated conditions, material is liable for rejection.

18) Acceptance of TC by BHEL before dispatch is must.

19) Date of price bid opening will be informed later after acceptance of offer on technical ground.

20) Bidders are to confirm all the above points in their "Technical and unpriced commercial bid". Incomplete offers will not be considered. The technical documents submitted for consideration of offer is to be signed and sealed in original by mill without fail.

21) Long seam welded pipes are only acceptable.

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**List of Consortium Bank**

<b>Nationalised Bank</b>		<b>Nationalised Bank</b>	
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		<b>Public Sector Banks</b>
3	Bank of Baroda	20	IDBI
4	Canara Bank		<b>Foreign bank</b>
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		<b>Private bank</b>
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 with .....hereinafter called „the said contractor „, which term includes „suppliers“ for the purpose of this Bond and under the terms and conditions of the contract No..... Dt ..... Between BHEL, Trichy and as per the contract, the contractor / supplier is to furnish a performance Bank guarantee for Rs. .... for the due performance of the equipment to be supplied under the above referred contract and for the fulfillment of all the terms and conditions of the contract, We .....(indicate the name of the bank) (herein after referred to as the bank) at the request of ..... (Contractor(s) ) do here by undertake to pay the company an amount not exceeding Rs.....against any loss or damage caused to or suffered or would be caused to or suffered by the company by reason of any breach by the said contractor (s) of any of the terms and conditions contained in the said agreement.

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

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

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

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

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

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

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

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

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

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

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

In witness whereof we....., (indicate the name of Bank) have hereunto setout Bank Seal the \_\_\_\_\_ day \_\_\_\_\_ month 200

BANK E-MAIL ID:  
BANK PHONE NO.  
BANK FAX NO:

**BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPALLI 620 014**

**QUALITY ASSURANCE**

SIP: PP: 21 Rev. 06

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**COLOUR CODES FOR TUBES AND PIPES  
(FOR BOILERS, PRESSURE VESSELS & HEAT EXCHANGERS)**

REVISION	DATE	PREPARED	REVIEWED	APPROVED
01	05-02-1999	R. Sasikumar	A. R. Reddy	K. Rengachari
02	22-07-2004	K. Ganesan	U. Revisankaran	C. R. Raju
03	20-01-2009	V. Kalyanaraman	S.Selvarajan	U. Revisankaran
04	13-05-2011	C. Haritha	V. Kalyanaraman	S. Selvarajan
05	27-05-2015	Vaibhav Saxena	S. Selvarajan	U. Revisankaran
06	28-10-2015	<i>Done by:</i> 28.10.2015 Vaibhav Saxena	<i>Manushankar</i> 28/10/15 Manu Shankar. H	<i>S. Selvarajan</i> 28/10/15 S. Selvarajan

**RECORD OF REVISIONS**

Rev. No	Clause No.	Details of Revision	Remarks
01		New Specifications included based on TDC revision.	--
02		Amendment A1 dt. 26.04.01 issued for Rev. 01 incorporated. Colour code for SA 213 Gr. T23 added.	--
03		1) Colour code for SA 213 Gr. T92, P23, P92, SA178 Gr. D added. 2) Colour code for SA 210 Gr. C modified to BLUE only.(From BLUE & GREEN)	--
04		Colour code for super 304H added	--
05		1) First para modified for clarity for colour codes containing more than one colours. 2) UNS number for Super 304H added.	--
06		Colour code for super 304H corrected in line with Revision 04.	--

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Following Colour codes are to be applied as longitudinal bands (if not specified in other documents) on tubes & pipes to identify them to specification during receipt, storage, issue and processing. For heat exchanger tubes circumferential colour code can be provided at both ends of tubes (300 mm away from end). If the Colour code contains more than one Colour then bands of Colours shall be neatly applied adjacent to each other without any overlap.

Specification	Colour 1	Colour 2	Colour 3
12 X 1 MØ	RED	YELLOW	
13 Cr Mo 44	ALUMINIUM	BLACK	
A 200 Gr. T5	ALUMINIUM	RED	YELLOW
A 200 Gr. T9	ALUMINIUM	GREEN	YELLOW
AISI 602	WHITE	YELLOW	
API 5L Gr. B	ALUMINIUM		
BS 3059 PART2 CDS/HFS 360	ALUMINIUM	BLACK	BROWN
BS 3059 P2 S2 440	ALUMINIUM	BLACK	RED
BS 3059 P2 S2 622 Gr. 490	ALUMINIUM	BLACK	GREEN
BS 3602 PART1 CDS 360	ALUMINIUM	BLACK	BLUE
NFA49-213 42C	ALUMINIUM	BLUE	BROWN
NFA49-213 TU 10CD9.10	ALUMINIUM	BLUE	RED
NFA49-213 TU 15CD2.05	ALUMINIUM	BLUE	GREEN
NFA49-213 TU Z10CD9	ALUMINIUM	BLUE	YELLOW
NFA49-213 TU Z10CDVNB09.01	ALUMINIUM	GREEN	RED
SA 106 Gr. B	RED		
SA 106 Gr. C	BLUE		
SA 178 Gr. D	ORANGE		
SA 179	BLACK	BLUE	GREEN
SA 192	WHITE		
SA 199 T5	BLUE	BROWN	RED
SA 209 Gr. T1	ALUMINIUM	RED	
SA 210 Gr. A1	YELLOW		
SA 210 Gr. C	BLUE		
SA 213 Gr. T11	ALUMINIUM	YELLOW	
SA 213 Gr. T12	BROWN	YELLOW	
SA 213 Gr. T2	BROWN	GREEN	
SA 213 Gr. T22	GREEN	RED	
SA 213 Gr. T23	RED	WHITE	
SA 213 Gr. T5	BLACK	BROWN	GREEN
SA 213 Gr. T9	BROWN	WHITE	
SA 213 Gr. T91	GREEN	YELLOW	
SA 213 Gr. T92	BROWN	BLUE	
SA 213 Gr. TP 304	BLUE	GREEN	YELLOW
SA 213 Gr. TP 304H	BLACK	BLUE	YELLOW
SA 213 Gr. TP 304L	BLUE	WHITE	YELLOW
SA 213 Gr. TP 309H	BLACK	BROWN	YELLOW
SA 213 Gr. TP 316	BROWN		
SA 213 Gr. TP 316 Ti	BLACK	BLUE	
SA 213 Gr. TP 316L	BLUE	BROWN	YELLOW
SA 213 Gr. TP 321	BLUE	WHITE	
SA 213 Gr. TP 321H	BLACK	WHITE	
SA 213 Gr. TP 347H	BLACK	YELLOW	

Specification	Colour 1	Colour 2	Colour 3
SA 268 Gr. TP 405	ALUMINIUM	GREEN	
SA 268 Gr. TP 410	BROWN	RED	YELLOW
SA 268 Gr. TP 443	BLUE	GREEN	WHITE
SA 269 TP 316	GREEN	RED	YELLOW
SA 312 Gr. TP 304	BLUE	YELLOW	
SA 312 Gr. TP 304L	BLUE	RED	YELLOW
SA 312 Gr. TP 316	BLACK	GREEN	
SA 312 Gr. TP 316L	BLACK	BLUE	BROWN
SA 312 Gr. TP 321	BLUE	BROWN	
SA 312 Gr. TP 347	BLUE	RED	WHITE
SA 333 Gr. 1	BLACK	BROWN	RED
SA 333 Gr. 3	BLACK	GREEN	RED
SA 333 Gr. 6	BLUE	GREEN	RED
SA 334 Gr. 1	BROWN	GREEN	RED
SA 334 Gr. 3	BLACK	RED	YELLOW
SA 334 Gr. 6	BLACK	BLUE	RED
SA 335 Gr. P1	BROWN	GREEN	YELLOW
SA 335 Gr. P11	GREEN	WHITE	
SA 335 Gr. P12	BLACK	RED	
SA 335 Gr. P2	BLUE	BROWN	GREEN
SA 335 Gr. P22	BLUE	RED	
SA 335 Gr. P23	RED	WHITE	
SA 335 Gr. P5	BLACK	BROWN	
SA 335 Gr. P9	ALUMINIUM	BROWN	
SA 335 Gr. P91	BROWN	RED	
SA 335 Gr. P92	BROWN	BLUE	
SB 163 Inconel	BLACK	GREEN	YELLOW
ST 35.4	ALUMINIUM	BLUE	
Steel 20	GREEN		
Structural Tubes & Pipes	BLUE	BROWN	WHITE
X20 Cr Mo V 121	BLACK		
SA 213 UNS S30432( Super 304)	<b>BLACK</b>	<b>RED</b>	<b>GREEN</b>

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