



An ISO 9001
Company

Bharat Heavy Electricals Limited
(High Pressure Boiler Plant)
Tiruchirappalli – 620014, TAMIL NADU, INDIA

TITLE CARBON STEEL ROUNDS TO SPECIFICATION SA105 WANTED	Phone: +91 431 2574247/ 4354 Fax : +91 431 252 0719 Email : kjoe@bheltry.co.in
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	Reference Number: Enquiry 1301500015	Enquiry Date: 29.06.2015	Due date for submission of quotation: 21.07.2015
You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order			

Sealed Tenders are invited by the MM / Steel for 651 MT of Carbon Steel Rounds confirming to Spec SA105 and TDC:0:309 Rev 06.

BHEL commercial terms & conditions and all annexure can be downloaded from BHEL web site http://www.bhel.com or from the Government tender website http://tenders.gov.in (public sector units) Bharat Heavy Electricals Limited) under enquiry reference "1301500015 "	
Tenders should reach us before 14:00 hours on the due date Technical bid will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.	Yours faithfully, For Bharat Heavy Electricals Limited DGM/ MM / Steel 3rd Floor, Bldg 24, BHEL, Tiruchirappalli-620014 Ph: 0431- 2574247/ 4354, Fax: 0431- 2520719 Email: kjoe@bheltry.co.in



BHARAT HEAVY ELECTRICALS LIMITED

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

PHONE :2574247
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: kjoe@bheltry.co.in
Web:

429-002/A

	Enquiry No	Enquiry Date	Due Date for Quotation
	1301500015	29.06.2015	21.07.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. 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 & Enq. Due date must be written on all three covers.			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	153391410000 DIA 40mm-SA105	MT	100.000	100.00	31.08.15
20	153391430000 DIA 63mm-SA105	MT	130.000	80.00 50.00	31.08.15 30.09.15
30	153391440000 DIA 80.0 MM - SA105	MT	350.000	200.00 150.00	31.08.15 30.09.15
40	153392800000 DIA 36.0 MM - SA105	MT	10.000	10.00	31.08.15
50	153393800000 DIA 60 MM - SA105	MT	25.000	25.00	31.08.15
60	153393810000 DIA 75mm-SA105	MT	36.000	36.00	31.08.15

General Note:

1. Supply of Carbon steel rounds shall be made strictly as per specification SA105 and TDC:O:309 Rev 06 with IBR Form IV and Guarantee certificates.

2. Enquiry Terms and conditions are given in Annexure-A.

3. The annexure-A has to be mandatorily filled and signed by the Supplier and submitted along with Techno-commercial bid.

4. Clear and specific reply against each point in 'Annexure-A' is required. Avoid replies like "As per our offer, "Refer our offer" etc.

Enclosures:

a. ANNEXURE - A (TERMS AND CONDITIONS)

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

K. JOSEPH REGIS
Deputy General Manager
MM / RM / Steel (Purchase)
BHEL, TIRUCHY - 620 014.
MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



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1301500015 / 29.06.2015

23505

- b. TDC: 0:309 /REV 06
- c. ROLLED PRODUCTS SUPPLIER FACILITY REPORT FORMAT
- d. GENERAL TERMS AND CONDITION (INDIGENOUS/IMPORT)
- e. AGENCY AGREEMENT FORMAT(IMPORT)

All the tenders may be addressed to the following address:

**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.

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


K. JOSEPH REGIS
Deputy General Manager
MM / RM / Steel (Purchase)
BHEL, TIRUCHY 620 014.
MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

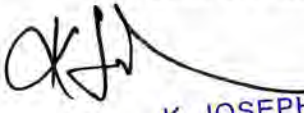
Annexure-A (Enquiry Terms conditions)

SL	BHEL Requirements	Supplier Comments (Acceptance or otherwise for each point to be given)																								
1	<p>TDC requirement</p> <p>1. Carbon steel Rolled rounds shall be supplied as per Specification and confirming to TDC: 0:309: Rev 06.</p> <p>For info:</p> <p>a) Acceptance to this requirement will be construed that Supplier have gone through the TDC, clause by clause, understood and confirmed their acceptance.</p> <p>b) Any Deviation against specification and TDC shall be clearly indicated in the Techno-commercial bid (Part -1).</p>																									
2	<p>Material Specification, Size and Quantity</p> <p>Supply of Carbon steel Rounds shall be made strictly as per material Specification and size in Rolled condition as indicated below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Specification</th> <th style="width: 30%;">Diameter</th> <th style="width: 40%;">Weight (MT)</th> </tr> </thead> <tbody> <tr> <td>SA105</td> <td>36 MM</td> <td>10</td> </tr> <tr> <td>SA105</td> <td>40 MM</td> <td>100</td> </tr> <tr> <td>SA105</td> <td>60 MM</td> <td>25</td> </tr> <tr> <td>SA105</td> <td>63 MM</td> <td>130</td> </tr> <tr> <td>SA105</td> <td>75 MM</td> <td>36</td> </tr> <tr> <td>SA105</td> <td>80 MM</td> <td>350</td> </tr> <tr> <td colspan="2" style="text-align: center;">TOTAL</td> <td style="text-align: center;">651 MT</td> </tr> </tbody> </table>	Specification	Diameter	Weight (MT)	SA105	36 MM	10	SA105	40 MM	100	SA105	60 MM	25	SA105	63 MM	130	SA105	75 MM	36	SA105	80 MM	350	TOTAL		651 MT	
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SA105	80 MM	350																								
TOTAL		651 MT																								
3	<p>Length</p> <p>Rounds shall be supplied in length of 6100mm. Tolerance on length +100mm / - Nil.</p>																									
4	<p>Quantity Tolerance : - Nil / + 10 % on each individual item.</p>																									
5	<p>Pre-Qualification Criteria (For new suppliers, not registered with BHEL Trichy):</p> <p>a) Suppliers who are not already registered with BHEL-Trichy Shall register on line at our web page: http://vis.bheltry.co.in/olsa/.</p> <p>b) Only Original Manufacturers/Mill (import or indigenous) need to respond this enquiry. Offer of Traders or Stockists will be summarily rejected</p> <p>c) Manufacturer shall have own or in-house Steel Making mill. In case of deviation, offer will not be considered</p> <p>d) Manufacturer shall have in-house Rolling mill or Forging facilities to produce rounds. In case of deviation, offer will not be considered.</p> <p>e) Manufacturer shall have in-house Heat Treatment facilities to perform Heat-treatment. In case of deviation, offer will not be considered</p> <p>f) Manufacture shall have their own in-house testing facilities. In case of deviation, offer will not be considered. Supplier has to submit relevant procedures and qualification records for the testing requirements as indicated in TDC and specification</p> <p>g) In addition, vendors who are not in the BHEL vendor list as permanent vendors for this material category should submit an experience certificate detailing the quantity supplied specification wise year wise along with the unpriced PO copies and proof of supply (such as Invoice & Test certificates) along with the offer for the specification SA105 or similar specification of carbon steel. Technical acceptance of offer by BHEL, shall be only after the evaluation of offer and the submitted documents.</p> <p>h) Supplier to submit filled in Rolled products supplier facility report attached herewith.</p>																									
6	<p>Invoicing</p> <p>Invoicing shall be done on actual weight basis. Invoice & TC shall indicate Number of pieces & weight. BHEL weighment is final. In case BHEL weighment exceeds to the invoice weight and then it will be restricted to invoice weight only.</p>																									
7	<p>Inspections & Testing:</p> <p>a) Inspection and certification shall be carried out as per clause 10 of TDC: 0:309 Rev 06. Mill TC and IBR FORM IV are required.</p> <p>b) Supplier has to submit Draft Mill Test Certificates and Draft IBR FORM IV for BHEL approval before supply of material (Applicable for new supplier)</p>																									

8	Payment terms for Import suppliers			
	A. For new Import suppliers not registered with BHEL payment shall be made 45 days after receipt and acceptance of materials after testing at BHEL lab.			
	B. For already registered import suppliers 1. 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. For info: <ul style="list-style-type: none"> ➤ Any deviation in the above payment term will attract loading as mentioned below. <ul style="list-style-type: none"> ○ 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. ➤ In the case of Usance LCs (45 days from the date of receipt of documents, specified in PO, at BHEL bank) 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. 			
2. If the LC payment is insisted, TWO sets of original TCs to be submitted prior to dispatch and a certificate to that effect from BHEL should form a part of the documents to be negotiated. Acceptance to this condition is must in case of LC payment, Deviation not acceptable.				
9	Payment terms for Indigenous suppliers			
	1. For new Indigenous suppliers not registered with BHEL payment shall be made 45 days after receipt and acceptance of materials after testing at BHEL lab.			
2. for already registered Indigenous suppliers a) Payment term is 100% direct EFT payment after 45 days from the date of receipt and acceptance of materials.				
For info: <ul style="list-style-type: none"> ❖ Any deviation in the above payment term will attract loading as mentioned below. <ul style="list-style-type: none"> ➤ "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. ❖ Offers of indigenous Suppliers with payment terms as LC / Advance Payment are liable for rejection 				
10	Delivery requirement :			
	Diameter	WT	BHEL delivery requirement	Supplier's quoted period
	36 mm	10	Within 10 Weeks from the date of PO	
	40 mm	100		
	60 mm	25		
	75 mm	36		
	63 mm	80		
	80 MM	200	Within 14 weeks from the date of PO	
	63 mm	50		
80 mm	150			
11	a) Confirm acceptance for Liquidated Damages (LD) clause for rounds of diameter 36mm, 40mm, 60mm and 75mm. 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.			
	b) Confirm acceptance for Liquidated Damages (LD) clause for diameter 63 mm & 80 mm rounds Liquidated damages shall be 0.5% of undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.			

	<p>For Info:</p> <ul style="list-style-type: none"> ➤ Any deviation from the above LD clauses (11.a & 11.b), loading will be applied to the extent to which it is not agreed by the bidder (at offered value). <p>For Imports:</p> <ul style="list-style-type: none"> ➤ FOB order- LD will be calculated based on the TC date/final inspecting agency signing date whichever is later. ➤ In case of CFR - LD will be calculated based on the B/L date <p>For Indigenous:</p> <ul style="list-style-type: none"> ➤ FOR order - LD will be reckoned from the date of LR. 	
12	<p>Confirm acceptance for Risk Purchase Clause: BHEL at its option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or 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>	
13	<p>Offer Validity Offer validity of 30 days is required after priced bid opening (normally price bid will be opened within 60 days from technical bid opening) in case you are technically qualified.</p>	
14	<p>Offer submission(Indigenous & Import suppliers)</p> <ol style="list-style-type: none"> 1. Offer will be evaluated on individual item basis only. 2. Offers shall be submitted in TWO PART bids system (TECHNO-COMMERCIAL BID + PRICE BID). 3. Technical Bid & Priced Bid to be submitted separately on the same day. 4. Both covers shall be put in an enclosed cover. All covers shall be super scribed with enquiry No, due date, firm name and bid type. 5. Submit your FIRM competitive offer rate per MT with inclusive of all charges if any (like inspection (TPI), UT charges, etc). <p>For info</p> <ul style="list-style-type: none"> ➤ Price Variation Clause (PVC) is not applicable. Offers with price variation clause will be rejected. 	
15	<p>Offer Submission(for Import suppliers)</p> <p>1. Specify Port of shipment and type of loading</p> <p>Note:</p> <ol style="list-style-type: none"> a) Suppliers to quote their rates on FOB/Load Port basis (refer clause 15.1.b to 15.1.e) clearly mentioning their preferred type of loading (FCL/BB). The quote should be all inclusive of all charges, including testing packing, inspection etc. Additionally ocean freight (LILO basis) for CFR, Chennai/Karaikal/Tuticorin shall also be quoted separately. Offer on CFR (without price breakup)/ FOB only is not acceptable, both FOB & ocean freight to be quoted separately. b) The available load ports for FCL (Full Container Load) Cargo in Freight Contract are Antwerp, Hamburg, Genoa, Rotterdam, Bilbao, Gothenberg, Felixstowe, St.Petersberg, Busan, Dalian, Shanghai, Kobe, Osaka and Yokohama. c) The available load ports for LCL (Less than Container Load) Cargo in Freight Contract are Antwerp, Hamburg, Genoa, Rotterdam, Bilbao, Gothenberg, Felixstowe, Thamesport, Tilbury, Le Harve, St.Petersberg, Busan, Masan, Dalian, Shanghai, Tianjin, Kobe, Osaka, Yokohama, Singapore and Durban, d) The available load ports for BB (Break Bulk) Cargo in Freight Contract are Antwerp, Hamburg and Genoa e) In case if the suppliers are unable to execute through the above ports with the available types of cargo loading (Reasons for the same to be mentioned), FOB rate along with ocean freight (LILO basis) applicable upto Chennai to be quoted. <p>2. 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. 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.</p> <p>3. In case of shipment through Containers on CFR basis, the BL should bear the endorsement that "14 free days for Container Detention is applicable".</p> <p>4. Port of discharge Chennai/ Karaikal/ Tuticorin Sea Port (in case of CFR)</p>	

	<p>5. 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.</p> <p>6. Service charges, commission charges and any other incidentals will NOT be paid extra.</p> <p>7. Agency commission, if any should be clearly given in the offer (% on FOB, % on CFR Chennai inclusive).</p> <p>8. Mill & Country of origin to be indicated in the offer.</p> <p>9. Specify the quoted currency</p> <p>For info:</p> <ul style="list-style-type: none"> ➤ One Indian agent can represent one foreign principal only and submit one offer for these tender items. Offer shall be rejected in case of deviation. ➤ The offer will be evaluated on total landed cost to BHEL-Trichy as below: Total landed cost = [(FOB +sea Freight) or CFR rate] +Customs duty as applicable + LC Charges (In case LC payment) + 22% loading on Freight in case of deviation mentioned in clause 15.2 above + Import Incidentals + Commercial loading as applicable ➤ For conversion of foreign currency into INR, foreign exchange rate (TT selling rate of SBI) on the date of technical bid opening will be considered. 	
16	<p>Offer Submission(for Indigenous suppliers)</p> <ol style="list-style-type: none"> 1. Submit your FIRM competitive offer rate per MT with best possible delivery on FOR BHEL-Trichy basis ONLY with inclusive of all charges if any (like inspection (TPI), UT charges, etc.) 2. Service tax, Octroi, Entry tax etc to be indicated in offer and is payable extra only on submission of documentary proof. 3. Any other extra charges like ED, CST/VAT etc. are to be indicated clearly. 4. The offer will be evaluated on total landed cost to BHEL, Trichy as below, Total landed cost = FOR, BHEL Trichy + applicable taxes+ commercial loading as applicable – applicable tax credits. <p>For Info:</p> <ul style="list-style-type: none"> ❖ For interstate supplies C-Form will be issued. 	
17	<p>Material Warranty</p> <p>Free replacement of whole material in case of notification of defect in material within the period of One year from TC/Invoice date. Warranty certificate to be produced.</p>	
18	<p>Defective Material replacement</p> <p>Supplier shall replace defective material free of cost (inclusive of all Testing, Inspection, TPI, Service charges etc.) up to destination within two months from defect notification date.</p>	
19	<p>Pre Despatch inspection</p> <p>If required, BHEL will have stage inspection (at any stage) and quality audit of the mill with prior intimation.</p>	
20	<p>For New Supplier (Not registered with BHEL-Trichy) :</p> <p>1. Following details/documents are to be ensured.</p> <ol style="list-style-type: none"> a) Details such as mill capacity and capability, credentials. b) Previous purchase orders executed for blue chip companies in abroad and India. c) ISO certification. d) Details of Manufacturing, Heat Treatment and Testing facilities installed in-house. e) Filled in Rolled products / forging supplier facility report. f) Detailed Quality Assurance Plan for manufacturing of tender items. g) Quality manual. h) Agency agreement from foreign principal. i) Spot evaluation at supplier's works may be done at BHEL discretion. <p>Following additional details/documents are to be submitted by Import/Foreign suppliers along with above-mentioned documents</p> <ol style="list-style-type: none"> j) D&B report for Mill/Manufacture. k) Port of loading, country of origin in case of foreign sources. l) Collaboration if any with suitable supporting documents. m) Details of Indian Office / Liaison office / Liaison Agent n) Acceptance to INCO-Terms 2010. 	

	2. If the supply is first time to BHEL/Trichy, then supplier has to supply minimum quantity on mutually agreed basis. After acceptance of material at our end and after testing by BHEL, clearance for the balance quantity shall be given.	
21	The due date mentioned in the enquiry is the date of opening of techno-commercial bid. After the scrutiny of technical bids, price bids of only technically accepted offer shall be opened with prior intimation.	
22	BHEL Reserves the right to negotiate and re-float the tender if the lowest offered price is not found competitive.	
23	BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.	
24	BHEL reserves the right to revise either in full or part thereof or short close the tender at our discretion without assigning any reasons considering BHEL's commercial interest. This is for information.	
25	Any other conditions which might have been quoted by the seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted in by purchaser will not be applicable to the contract.	
26	<p>➤ All the tenders shall be addressed to the following address:</p> <p>The Tender Opening Cell / MM Room No: 26, Building 24, Ground Floor Bharat Heavy Electricals Limited TIRUCHIRAPALLI 620014</p> <p>➤ 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.</p> <p>➤ Offers will be accepted only up to 14.00 Hrs (IST) on the due date. Therefore, vendors shall ensure to submit the offers well before this time.</p> <p>➤ 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.</p> <p>➤ 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</p> <p>➤ 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.</p> <p>➤ The offers will be opened at 14:30 Hrs (IST) 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.</p> <p>➤ Late and delayed offers are liable to be rejected.</p>	
On behalf of BHEL		To be filled & Signed by supplier
 K. JOSEPH REGIS Deputy General Manager MM / RM / Steel (Purchase) BHEL, TIRUCHY - 620 014.		Name of the mill / Principal:
		Signature:
		(Affix Seal)

Revision Record:

Rev: 01: Source of supply for AS included.

Rev: 02: Text re-written, Class Nos introduced for Alloy steel. High temperature test removed. TDC: 03: 306/00 merged into this.

Rev: 03: Cl. 4, 6, 9 modified.

Rev: 04: Cl 5 revised to include Impact test for bars used for valves purchase orders, clarity brought in Cl 4.

Rev: 05: Heading modified. Cl 1 size restriction for CS and AS SA182 rolled bars added as per ASME. SA182 Gr 91 & Gr 92 added and subsequent clauses modified for chemistry, Heat treatment, mechanical properties, photomicrograph and NDE.

Cl 2 – Steel makers names removed and requirement for creep testing added as per IBR Reg 4. Cl 2, 6 & 10 modified for SS. Cl 4 – SA 182 F91, F92 & F23 Tempering temperature and soaking time modified. Cl 5 – Bend test Clarified, Cl 6 – MPI added. Cl 11 added. Cl 10 – IBR Forms indicated. CS: SA675 Gr 70 added and its requirements added in Cl 1, 2, 4 in line with collaborator practise.

Rev 06: Cl 2, 4, 5, 6, 10 modified

1. MATERIAL Specification: ASME{Latest on date of Purchase Order (PO)}:

CS : SA 105, SA 675 Gr 70

AS : SA 182 F11 Class 2, F12 Class 2 & F22 Class 3, SA182 F91 & SA182 F92 (Code case 2179); SA 193 B7 & B16

SS : SA 182 Gr. F 316, SA 479 TP 410 Condition 2, SA 479 TP 304

Additional Requirement : As listed below (supplementary to Specification)

Size and Qty : As per Purchase order & Drawing

SA 105 and SA 182 rolled bars shall be restricted to dia \leq 114.3mm.

2. CHEMICAL COMPOSITION & PROCESS

1) Melting: CS & AS: Fully killed. CS : SA 675 – Silicon and Aluminium killed. Product analysis per heat: CS: C \leq 0.25%. SA182 F92: Si: 0.10-0.50%, Ni: 0.30 max & Cu:0.25% max.

2) CS, AS: rolled bars shall be processed by hot forging/rolling and subsequently finished by cold rolling (if required) to final size. SS: hot finished

3) Raw material Steel to be inspected at Mill & test certificate countersigned by IBR approved Authority, if the mill is not approved under IBR as well known steel maker.

4) SS: All raw materials used in steel making including incoming scrap shall be checked by supplier to ensure freedom from radioactivity.

3. DIMENSIONS AND TOLERANCES

Dimensional Tolerances : CS & AS: as per SA 29. SS: as per SA 484.

4. HEAT TREATMENT(HT)

1) CS: SA 105 Normalised at 880-920 deg C, SA 675 Normalised at 880-920 deg C and Tempered at 600-650 deg C

AS(SA 182): Normalised and tempered,

For SA 182 F91, F92 Normalising temperature : 1040-1080 deg C & Tempering temperature :750-780 deg C.

SA 193: Quenched and tempered.

2) Photomicrograph test for F91 & F92 bars - one per heat treatment lot per size and reported in test certificate.

Acceptance – The material shall be free from any micro fissures. Microstructure shall show lathe tempered martensite and also to be examined for grain growth. Photomicrograph with 500x (Min) magnification along with Photomicrograph report to be provided. The actual magnification and result of actual microstructure shall be certified/indicated.

5. MECHANICAL TESTS

1) Extent of test: for each size/heat/HT batch.

2) Additional requirements for SA182 F91 & F92:

F91: Yield: (0.2% offset): Min 450MPa; Tensile: Min 630MPa, Max 850MPa; Hardness(HB): Min 195, Max 248

F92: Tensile: Min 630 MPa, Max 850MPa; Hardness(HB): Min 190 Max 250

3) Additional tests: Bend test:

CS: 1 Sample 19mm thick(t)x25.4mm width to be bent 180 deg around mandrel of radius 6.35mm

AS(SA 182 only), SS: 1 Sample 19mm thick(t) x 25.4mm width to be bent 180 deg around mandrel of radius =1.5 x t.

4) Bars meant for Valves purchase orders of SA105 and SA182 F22 Cl3 materials shall be impact tested.

1/HT batch: SA 370, 2mm. Charpy-U Notch at room temperature. Acceptance: Avg of 3 specimens: 36J, single Min: 24J

6. NON DESTRUCTIVE TEST

1) Extent of test: for each product. Stage of test : After heat treatment. UT: 100% for Side length, Dia \geq 50mm and for all bars of SA 182 F91 & F92 As per ASTM A388. Acceptance: ASME Sec.VIII Div. 2 Cl.3.3.4.

2) Wet MPI : AS 182 F91, F92: 100%, As per ASTM E 709, Linear indications like cracks, folds & other injurious defects are unacceptable.

3) SS: Finished bars shall be checked for radioactive contamination and reported. Survey meter shall be used to measure at 5cm near the surface. Acceptance limits: Shall be less than 0.1 milli Rontgen (MR) per hr or 1 micro Sievert per hr.

7. WORKMANSHIP AND FINISH

Items to be proof machined as per drawing or shot blasted for CS/AS, Pickled & passivated as per ASTM A 380 for SS, & be free from scales & defects like laps, seams, folds, cracks, etc. Machined items (except SS) to be coated with a layer of transparent rust preventive before despatch.

8. REPAIR

Repairs by fusion welding are prohibited. Surface defects can be removed by mechanical means and defective areas smoothly dressed up with the adjacent surface. Minimum thickness after repair to meet drawing / Specification.

9. MARKING AND PACKING

Details of stamping on each item: dia \geq 25 mm: with low stress stamps and bordered by paint: Heat number, Specification & grade, Size, Maker's emblem/code & Inspection Authority's seal. Dia < 25 mm: All above details to be painted. Bars to be supplied in bundles < 1 ton, secured suitably for rough handling. Metal tags with details of specification, melt number and maker's emblem to be secured to the bundles.

10. INSPECTION AND CERTIFICATION

For IBR items, inspection and tests to be witnessed by an IBR approved inspecting agency, in case the shop is not recognised as a "Well known Forger/Steel maker" under IBR. IBR certificate (well known and others in IBR Form IV) & Test certificate in English language countersigned by applicable inspection agency for each product with following details shall accompany the product (including proof machined):



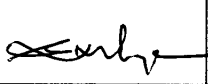


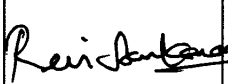
1. Purchase Order No.(BHEL),TDC No. & Test certificate number.
2. Specification, Grade with applicable year of code, Heat Number, Drawing No.,Quantity & Size
3. Supplier of the steel used in making the finished product (well known and others in IBR Form IV).
4. Melting & rolling process, Chemistry including incidental elements - Heat wise.
5. Heat treatment details of the material and test bars. For F91, F92 supplies – Photomicrograph at 500x resolution.
6. Mechanical test results, NDE test results with reference & acceptance standard.
7. Repair details if any, Certified copy of TC for starting material.
8. For SS: Measured Radioactivity levels shall be reported in the Mill Test Certificate. (Not to be recorded in IBR Form)

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

SA 105, SA 182 & SA 479 are for Pressure part components in Boilers & Valves of high temperature service meeting IBR and ASME Section I. SA 193 is for high temperature bolting and for drive shafts.

	 25/11/14				
Haritha.C QA	Kalyanaraman.V QA	Selvarajan.S QA	Ragufaman.P MM	Pandian.T MM	Revisankaran.U QA
Prepared	Reviewed			Approved	



BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI – 620014

Rolled products(Raw Materials) Facility Report

SL	Description	Details	
1	Name of Company		
	1	Address of Registered Office	
		Telephone	
		email	
		Fax	
	2	Factory Location(s) and address	
		Telephone	
		email	
		Fax	
	2	<u>TYPES OF PRODUCTS PRODUCED</u>	
Plates			
Bars			
Tubes & Pipes			
	Others		
3	Installed Capacity in Tonnes/Year		
4	Actual production for last 3 years in Tonnes/Year		
5	Max. Wt. of single piece of Plate produced so far		
6	Melting facilities		
	1	Furnace	
	1	Type: Induction furnace, Arc Furnace, any other Secondary Refining	
	2	Number of furnaces	
	3	Melting capacity of individual furnaces	
	4	Type of furnace lining, Acid, Basic, Neutral	
	5	System of control of raw material, melting charge and additives.	
	6	Practice followed for temperature control during melting, tapping and pouring.	

6	2	Molten metal handling facilities:			
		1	Laddles		
			1	Type and capacity	
			2	Numbers	
2	Cranes : Type & Numbers				
7	Facility for manufacture of Ingots/continuous of casts.				
8	1	Ingots manufacturing facilities - capacity			
		1	Weight of Single Ingot		
		2	Size of Ingot		
	2	Type of continuous casting facility:			
		1	Size of the Bloom/Billet/Slab		
		2	Speed		
		3	Facility for Magnetic Stirring		
9	ROLLING FACILITY:				
	1	Capacity of rolling stands			
	2	Size range (Max. Thickness/ Width/ Length/ Diameter)			
	3	Facility for Heating Billets/Slab			
	4	Facility for Descaling during Rolling			
10	In house Heat Treatment facilities			Yes/No	
	1	If Yes Indicate Type of Heat Treatment possible			
		If No Indicate alternative arrangements with relevant details			
		1	Annealing		
		2	Stress Relieving		
		3	Normalising		
		4	Quenching - Oil/Water		
		5	Tempering		
		6	Nos. & Type of furnaces		
		7	Max. size & Wt. which can be heat treated		
8	Time & Temperature recording facilities				
2	Facility for Shot Blasting:		Yes/No		

11	Availability of in house Testing facilities		Yes/No	
	1	If No, Pl. indicate alternative arrangements for testing with relevant details.		
	2	If Yes:		
	1	Chemical Analysis : Method		
	2	Mechanical		
	1	Hardness Tester	Yes/No	
	2	Metallographic Lab. facilities.	Yes/No	
	3	Universal tensile testing machine	Yes/No	
	4	Pressure testing	Yes/No	
	3	Non/Destructive Testing facilities		Yes/No
	1	Radiography		
	2	Ultrasonic test		
	3	Dye-Penetrant test		
4	Magnetic particle test			
5	Any other			
12	<u>Familiarity with material codes & Specifications</u>			
	ASTM			
	IS			
	BS			
	DIN			
	OTHER			
13	Approved by any third party / statutory agency and specify agency			
14	Quality Management			
	1	General		
	1	Are written Quality control instruction sheets prepared and properly used?		
	2	Are records generated during inspection maintained & available for review?		
3	Are final inspection areas clean, adequately lighted & of suitable size?			

14	1	4	Head of Q.C. Department reports to		
		5	Are written procedure defining stage wise operations and functions on shop floor established & followed?.		
		6	Are Quality Control checks adequate to maintain desired quality right from incoming stage to final operation?		
		7	Is 100% or adequate sampling inspection used?		
		8	Are statistical QC techniques used?		
	2	Corrective action			
		1	Does the system provide for prompt detection of inferior quality and for correction of its assignable cause.		
		2	Is adequate action taken to correct the causes of defects in products?		
		3	Are analysis made to identify trends towards product deficiencies?		
	3	Documentation control			
		1	Does the system provide for clear & precise stipulation of responsibilities for documentation issue & change control?		
	4	2	Are changes made in writing?		
		Control of inspection measuring & testing equipments			
		1	Are necessary gauges, testing & measuring equipments available & used?		
		2	Are test & measuring equipments properly maintained?		
		3	Is there recorded control on calibration of equipments?		
		4	Whether furnaces are calibrated?		
		5	Whether Temperature measuring instruments and other instruments & gauges are calibrated?		
	6	Whether the calibration certificates of above are valid up to date?			
	5	Control of procured supplies & Services			
		1	Do the vendor purchasing documents refer to specific design, manufacturing & testing requirements?		
		2	Do purchasing documents also contain special requirements?		
		3	Are requirements for necessary tests & inspection of raw material specified in purchasing document?		

15	Consistency in supply	
	1	Has vendor produced items of similar nature in past?
	2	Has vendor maintained delivery commitments in past?
	3	Has there been frequent labour trouble in past?
	4	Has there been major upset due to faulty material management?
	5	Is the system of planning & scheduling resilient enough to overcome temporary setbacks and make uplost time?
	6	Has vendor got standby arrangement for power?
	7	Total order booked till date.
16	Remarks:	

Place:

Date:

Signature with seal

GENERAL TERMS AND CONDITIONS - INDIGENOUS

1. QUOTATIONS:

- a. 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.
- b. If any sales tax is payable as extra to the quoted price it should be specifically stated in quotations along with CST & TIN numbers falling which the purchaser will not be liable for payment of sales tax. Our TIN number: 332433560005 dt. 01/01/2007, CST Number: 239383 dt, 11.06.1991
- c. No revision of prices will be entertained after tenders are opened.
- d. **Manufacturer's name trademark or patent number** if any should be specified. Illustrative leaflets giving technical particulars are required along with quotation wherever necessary.
- e. Products with I.S.I certification marks will be preferred.

2. SAMPLES:

Wherever possible sample should be submitted separately whether specifically requested or not so as to reach the purchaser on or before the due date of the enquiry. They should be clearly marked with the enquiry number and the date on the outside cover to facilitate identification.

3. PACKING AND MARKING:

The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.

4. TERMS OF PAYMENT:

Payment will be made after 45 days on acceptance of materials. Wherever required by the purchaser, the successful tenderer must send the Operation and Maintenance manuals, Test Certificates, drawings, etc., for the materials ordered. These should be sent along with materials and a statement to that effect should be made in the invoice. Failure to comply with this provision will result in delay in payment of the bills. Goods dispatched either by V.P.P or by the document presented through bank will not be accepted unless agreed to by the purchaser.

5. The duplicate copy of the invoice meant for the transporters should accompany the material as stipulated under C.E. rules 52a and 173 c (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.

6. LIQUIDATED DAMAGES PENALTY AND INTEREST ON ADVANCES FOR DELAY IN DELIVERY:

If the supplier fails to deliver the raw material equipment components within the period specified in the contract the purchaser shall deduct liquidated damages a sum equivalent to 0.5% of the total order value for each week of delay up to maximum of 10% of the total order value.

7. RISK PURCHASE:

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.

8. MODVAT CREDIT:

If any Excise Duty is payable, the chapter head / Sub-head reference and the rate of the duty should be quoted. If the tender is availing MODVAT credit for this input material, the effect of Proforma credit should be passed on to the purchaser. **Tenderer under "MODVAT" shall be preferred.**

9. GENERAL:

The purchaser reserves the right to split up the tender and place order for individual items with different tenderers and also increase or decrease the quantity.

Any other conditions which might have been quoted by the seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted in by purchaser will not be applicable to the contract.

GENERAL TERMS & CONDITIONS
(For OVERSEAS SUPPLIERS)

1. The technical requirements are clearly indicated in the Technical Delivery Conditions enclosed with tender. Tenderers are requested to confirm their acceptance clause by clause of TDC, in their offer, without fail.
2. In the event of any tenderer indicating in their offer that the materials of tender will be supplied as per TDC of tender, it will be construed that they have gone through the TDC clause by clause, understood and confirmed their acceptance.
3. In the case of two bid tender system, clarification on Technical & Commercial points will be sought for if not clearly indicated in offer. After tender price bid opening, any voluntary / **unsolicited information's / confirmations / clarifications / interpretations by the tenderers** will not be entertained as a policy and tender will be finalized only with available data / **information's given in offer.**
4. The prices to be contracted against this tender are to be kept firm till completion of supplies against the contract. Tenderers are requested to give a minimum of 30 days (Thirty days) validity of their offer from the date of price bid opening as the same is essentially required by the Purchaser to finalize tender.
5. **In case of an order, BHEL reserves the right to depute their representative to Seller's** works either during the manufacture or prior to that for overseeing the order status. The expenditure in this regard will be borne by BHEL.
6. After inspecting, testing and clearance by IBR approved third party inspection agency, the accepted materials may be inspected and cleared by BHEL inspector **at Seller's works, if** required. The expenditure for BHEL inspector for this purpose will be borne by BHEL and **all expenditure in connection with third party inspection agency will be to seller's A/c.**
7. The standard LIQUIDATED DAMAGE clause and RISK PURCHASE clause of BHEL will be applicable.
8. BHEL reserve the option to transport the materials through TRANSCHART / MINISTRY OF **SURFACE TRANSPORT, Govt. of India thro' SCI/their agents / or any other shipper as** nominated by TRANSCHART if the sea freight charges of the seller is high.
9. In FOB contract, the shipment will be through TRANSCHART / MINISTRY OF SURFACE **TRANSPORT, Govt. of India thro' SCI/their agents / or any other shipper as nominated by** TRANSCHART Seller has to keep SCI/ or any other nominated shipper / their load port agent informed, at least 21 days in advance regarding the readiness of the materials for shipment to enable them to arrange for the vessel.
10. In case of C.F.R.Contract, the shipment shall be done by Seller. However, Seller shall ensure that the age of the vessel is less than 25 years.
11. Indian Agency Commission, if any, has to be clearly expressed in the offer itself.
12. In case of an order, a quantity allowance of **+10%/ -Nil** on the item wise ordered quantity shall be applicable.
13. **DELIVERY:**
In the event of an FOB contract, the Seller shall coordinate with TRANSCHART/SCI/or any other nominated agent /their agents for the supply of required containers / booking space in break bulk vessels and stuff the material and move to the port, the loaded containers / break bulk cargo after taking confirmation from them on the vessel arrival at load port. The correspondence/communications with them in this regard shall be maintained by the Seller and forwarded to Purchaser along with our advance copy of the shipping documents.

14. **MARINE INSURANCE:**

This will be arranged by BHEL. Once the shipment is made, the details such as Bill of Lading No., & date, name of the vessel, name of shipping line, quantity shipped (no. of containers + tonnage) shall be communicated by Seller to Purchaser either by e-mail or by fax to enable Purchaser to arrange for Marine Insurance.

15. PURCHASER reserves the option to alter the specific delivery schedules from time to time within the terminal due date of contract for specific quantity. .

16. The prices OFFERED/TO BE CONTRACTED finally have to be kept firm till successful completion of the contract and any price increase on any account whatsoever may be the reasons will not be permitted under any circumstances.

17. **If no comments are made specifically in the tenderer's offer**, on the above conditions of tender, it will be construed that the tenderer is in full agreement with the above clauses and will be binding on them, in case of an order.

18. Packing :

The Rounds shall be suitably painted for tropical conditions (to withstand marine corrosion) -- **shipped in bare bundles of Metric Tonnes gross Maximum / shipped loose (preserved and packed in sea worthy packing)**, duly ensuring prevention of damage or loss during transit and storage. Packing shall be done in such a way, as to ensure easy removal for **check at Port of destination and at Purchaser's works. The packages shall be provided** with facilities for easy handling by mechanical means, if need be. For this, the packing specification adopted is also to be such as to obtain a clean BILL OF LADING / AIR WAY BILL.

19. Dimension and Weight :

Specification of dimensions and weights in all places, shall be in Metric system and in English language.

BHEL recently received guidelines from Govt. Of India and Central Vigilance Commission and we have been asked to comply with the guidelines with regard to dealings with Indian Agent/Foreign Agent of Foreign Suppliers.

1. Mandatory submission of an Agency Agreement

- 1.1 It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- 1.2 The Agency Agreement should specify the precise relationship between the foreign OEM/foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- 1.3 In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives / associate / consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.
- 1.4 Agents will file an authenticated Photostat copy duly attested by a Notary Public / Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission / remuneration / salary / retainer ship being paid by the principal to the agent.
- 1.5 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the Foreign Principal.

2. Disclosure of particulars of agents / representatives in India

2.1 Tenderers of Foreign nationality shall furnish the following details:

2.1.1 The Bidder(s) / Contractor(s) of foreign origin shall disclose the name and address of the agents / representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent / representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.

2.1.2 The amount of commission / remuneration included in the quoted price(s) for such agents / representatives in India.

2.1.3 Confirmation of the Tenderer that the commission / remuneration, if any, payable to his agents / representatives in India, paid in Indian Rupees only.

2.2 Tenderers of Indian Nationality shall furnish the following details:

2.2.1 The Bidder(s) / Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents / representatives.

2.2.2 The amount of commission / remuneration included in the price(s) quoted by the Tenderer for himself.

2.2.3 Confirmation of the foreign principals of the Tenderer that the commission / remuneration, if any, reserved for the Tenderer in the quoted price(s), paid in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.

2.3 Failure to furnish correct and detailed information as called for in paragraph 2.1 & 2.2 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

Please furnish the above information immediately