



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT

TITLE: Supply of Inconel Fittings-UNS6617 to BHEL Trichy	Phone: +91 431 2577630 / 2575329 Fax : +91 431 2520 719 Email : nnithya@bheltry.co.in geetha@bheltry.co.in
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Reference Number: 1401500029	Date: 31.03.2015	Due date for submission of offer : 01.06.2015
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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.

Please note that under any circumstance both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the date tender opening.

BHEL / Trichy is looking for Inconel Fittings-UNS6617 to BHEL Trichy as per the attached documents.

BHEL technical terms & conditions and all annexures can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units) Bharath Heavy Electricals Limited) under reference “**1401500029**”

Offer should reach us before 14:00 hours on the due date of 01.06.2015.	Yours Faithfully, For Bharath Heavy Electricals Limited Sr. Engineer / MM / Purchase - C&F
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**General Note: BHARAT HEAVY ELECTRICALS LIMITED**

Page:1/2

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

PHONE : 2577480
 GRAMS : BHARATELEC
 FAX NO: 2520719
 E-mail :
 Web :

429-002/A

OFFICE COPY**Collective No.**

1401500029

Enquiry Date

31.03.2015

Due Date For Quotation

01.06.2015

Please quote Enquiry No, Date and due date in all correspondences.
 This is only a request for quotation and not an order

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	920700020000 F.E.C D159; T=35(MIN) SB-564 UNS6617	NO	2.000	2.00	31.12.15
20	921040170000 ELBOW-45DEG D127X20(NOM) SB-564-UNS6617 TDC 437/01 3-12-174-10990	NO	4.000	4.00	30.12.15
30	921040710000 90 DEG ELBOW D127 X 20 SB-564-UNS6617 TDC 437/01 3-24-B00-03897	NO	12.000	12.00	30.12.15
40	921040720000 90 DEG ELBOW D168.3 X 20 SB-564-UNS6617 TDC 437/01 3-24-800-03899	NO	4.000	4.00	30.12.15
50	921040730000 90 DEG ELBOW D127 X 8 SB-564-UNS6617 TDC 437/01 3-24-800-03901	NO	2.000	2.00	30.12.15
60	921040740000 90 DEG ELBOW D48.3 X 10.16 SB-564-UNS6617 TDC 437/01 3-24-800-03902	NO	15.000	15.00	30.12.15
70	921050050000 UNEQUALTEE D159;T=30(NOM)/D127;T=30(NOM) SB-564 UNS6617 TDC 437/01 3-10-278-05435	NO	2.000	2.00	30.12.15
80	921050090000 BW EQUAL TEE D127 X 20 SB-564-UNS6617 TDC 437/01	NO	1.000	1.00	30.12.15

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**

J. Ate.

MANAGER / PURCHASE



BHARAT HEAVY ELECTRICALS LIMITED

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

Page:2/2

1401500029 / 31.03.2015

23505

90	3-24-800-03898 921050100000	NO	1.000	1.00	30.12.15
100	BW EQUAL TEE D168.3 X 20 SB-564-UNS6617 TDC 437/01 3-24-800-03900 921170180000	NO	2.000	2.00	30.12.15
	REDUCER 1" / 1/2" ANSI B16.9 SB-564-UNS6617 TDC 437/01				

General Note:

1. Terms and Conditions are attached along with the enquiry.

Enclosures:

"LD clause has to be confirmed without fail."

PR Links

Material.	PR.No	PR.Item.	Quantity	Acc. Assign	Customer Number
920700020000	110751669	00010	2.000	J1/2477	J1/2477
921040170000	110701120	00020	4.000	J1/2477	J1/2477
921040710000	110701120	00030	12.000	J1/2477	J1/2477
921040720000	110701120	00040	4.000	J1/2477	J1/2477
921040730000	110701120	00050	2.000	J1/2477	J1/2477
921040740000	110701120	00060	15.000	J1/2477	J1/2477
921050050000	110701120	00010	2.000	J1/2477	J1/2477
921050090000	110701120	00070	1.000	J1/2477	J1/2477
921050100000	110701120	00080	1.000	J1/2477	J1/2477
921170180000	110701120	00100	2.000	J1/2477	J1/2477

list of suppliers

RFQ-5200003812

Open Tender Dummy Code

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Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

J. Arif.

MANAGER / PURCHASE

Record of Revision:

Rev 00: 06/10/14: Fresh Issue

Rev 01: 10/12/14: Cl 2, 4, 5, 6 and 9 corrected

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) followed by vacuum arc re-melting (VAR) or electro slag refining (ESR). Any other suitable melting and re-melting process shall be used only after approval from the purchaser.
 Forged bar shall be ensured for uniform structure & strength with reduction ratio in area: 3:1 min. from ingot to finished forging. Forgings shall be manufactured as close to the final shape as possible.

Product Analysis: As per spec

Heat Analysis in weight %: Test method as per ASTM E1473

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:

- i) Dimensions and tolerances: As per BHEL purchase order and relevant drawings.
- ii) The forged pipes shall not deviate from straightness by more than 1mm in any one shall not be more than 6mm over the entire length. A sharp bend at the end or kink and twist are not acceptable. These limitations are applicable for any given plane

4. Heat Treatment on Forging:

UNS N06617 – solution annealed in the range 1150°C to 1175°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 655 MPa, Yield Strength (0.2% off set): Min 241 MPa, Elongation (L=5.65√A), min 35%

Macrostructure: Grain size ASTM No 2 to 5.

6. Non-destructive testing & Hydro testing:

UT: 100% for all diameters. 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	6.4	
600 < D ≤ 1200	6.4	1. Sensitivity of 6.4mm 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.

Hydro: On all pipes as per B 829 Cl 5.2 with S = 163MPa.

7. Workmanship and Finish:

The Inside & outside surfaces shall be free from any imperfections. The material shall be plain, uniform in quality and condition, smooth, straight or flat and free of wrinkles, overlaps, tears, cracks, seams, folds, pitting etc. Localised imperfections, if any, may be removed by skin machining only to a surface finish of <= 6.3 microns ensuring the wall thickness. Local depressions or ground spots are not acceptable. Loose scales shall be removed by blast cleaning in surfaces after heat treatment. No repairs/weld repairs permitted.

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 with reference & acceptance standard.
6. NDE examination test results with reference & acceptance standard.
7. Results of dimensional data sheet

Survey meter shall be used to measure radioactive contamination at 5cm near the surface. Acceptance limits: Shall be less than 0.1 milli Rontgen (MR) per hr or 1 micro Sievert per hr. The Measured Radioactivity levels shall be reported in the Mill Test Certificate. (Not to be recorded in IBR Form).

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

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.

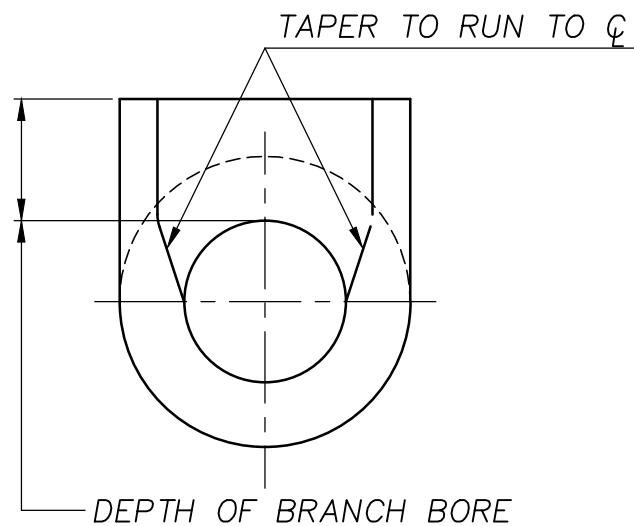
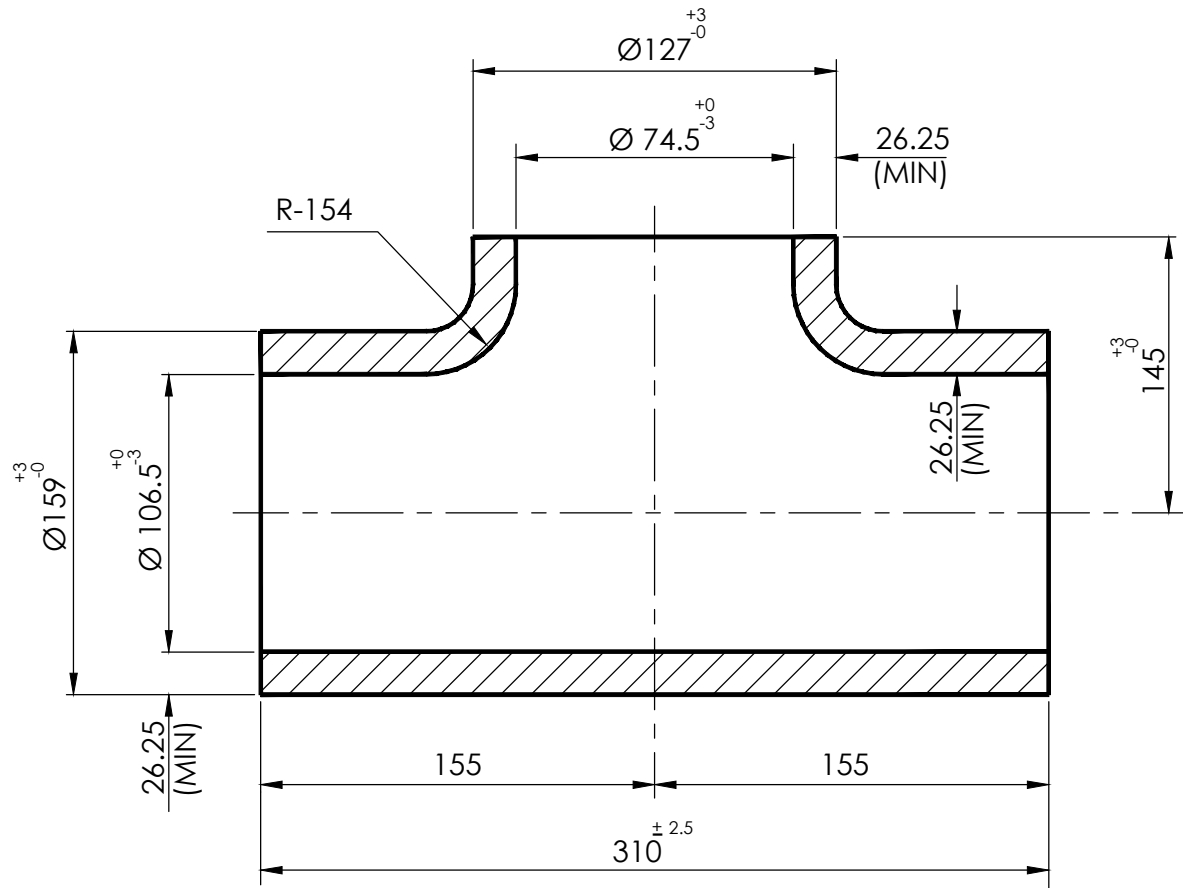
12. End Use

To be used in forgings for Advanced Ultra-Super Critical (AUSC) boiler applications.

Haritha.C/QA	Ravibharath.R/WRI	Kalyanaraman.V/ QA	Selvarajan.S/QA	Revisankaran.U/QA
Prepared by	Reviewed by			Approved by

3-10-278-05435
DRAWING NO:

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD.NO TP 023 0299



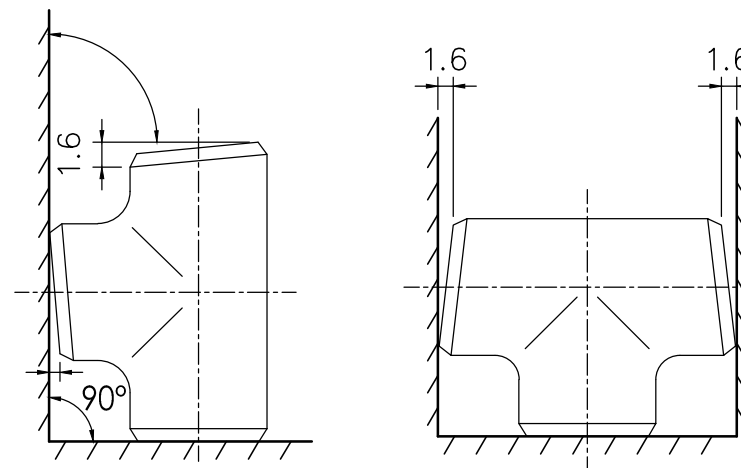
SECTION-AA

FITTING MATERIAL CODE: 92 105 005 0000

REV	DATE	ALTERED :	S.SARKAR
01	27.04.15	CHD & APPD:	R.B
ZONE	NOTE: -03 REVISED.		

NOTES:

01. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
02. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.
03. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING AS PER TDC.
04. FITTING SPECIFICATION : SB-564 UNS6617.
05. THE FORMED TEE SHALL BE SUPPLIED WITH PLAIN ENDS.
06. MAXIMUM THICKNESS SHALL NOT EXCEED $T(\min)/0.875$ AT ANY POINT



OFF-SQUARE TOLERANCES

UNEQUAL TEE						140.000	
D159X30(NOM)/127X30(NOM)				SB 564 UNS6617			
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT WEIGHT
					VAR NO	MATERIAL SPECN	QUANTITY

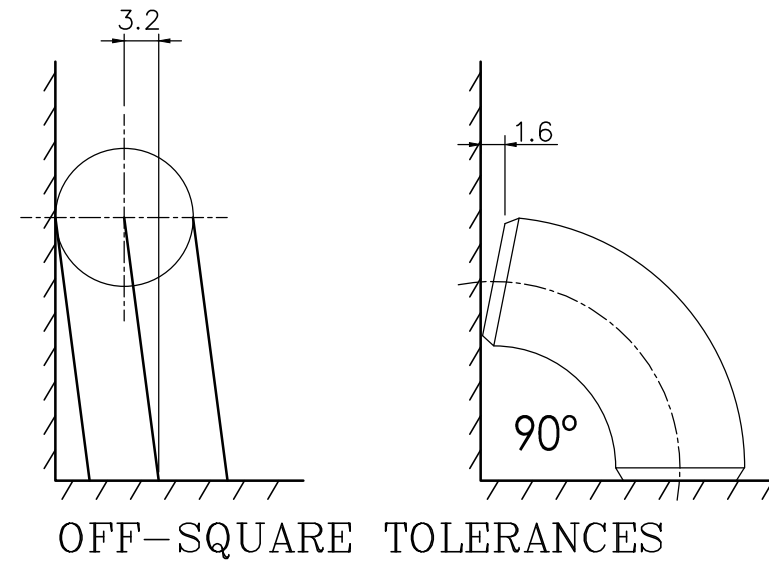
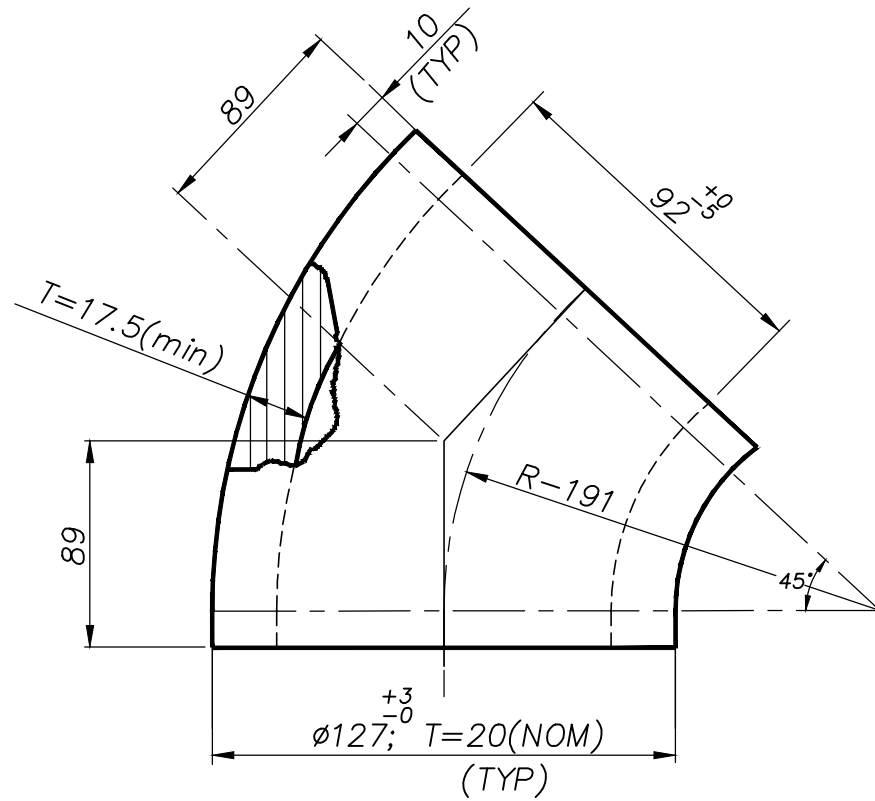
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME	SIGNATURE	DATE
		DEPT	PP	CHD	R.B	R.B	10.01.2014
CODE	121	APPD	R.B	TIRUCHIRAPALLI - 620014		10.01.2014	
ALL DIMENSIONS ARE IN MM		PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG		
			NTS	140.000			
TITLE UNEQUAL TEE -RAW FORMING D159x30(NOM)/127x30(NOM)					DRAWING NO : 3-10-278-05435		REV
							01

3-12-174-10990
DRAWING NO.:

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD.NO TP 023 0299

NOTES:

01. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
02. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.
03. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING AS PER TDC.
04. FITTING SPECIFICATION : SB-564 UNS6617
05. THE FORMED ELBOW SHALL BE SUPPLIED WITH PLAIN ENDS.
06. MAXIMUM THICKNESS SHALL NOT EXCEED $T(\min)/0.875$ AT ANY POINT OF THE ELBOW.



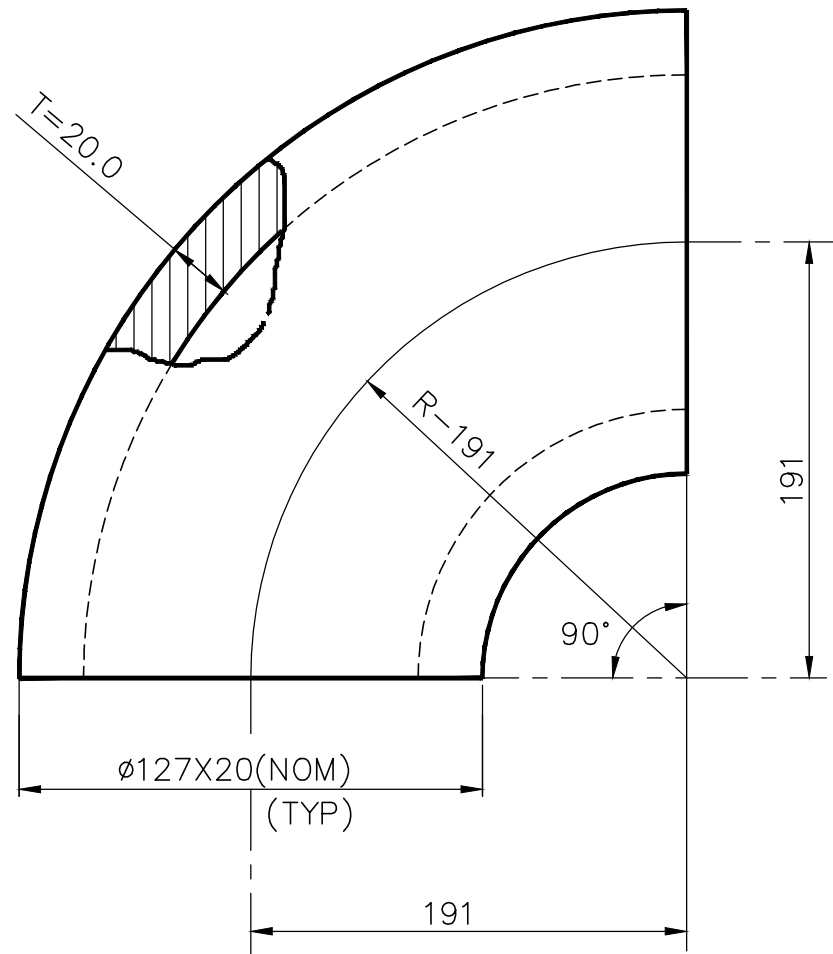
FITTING MATERIAL CODE: 92 104 017 0000

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		ELBOW D127X20(NOM)				SB 564 UNS6617			35.000	
					VAR NO	MATERIAL SPECN		DI	QUANTITY	

REV 01	DATE 27.04.15	ALTERED : S.SARKAR
		CHD & APPD: R.B
ZONE	NOTE: -03 REVISED.	

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		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	SIGNATURE	DATE	
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		APPD	R.B	10.01.2013			
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DRAWING NO: 3-24-800-03897


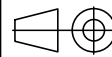


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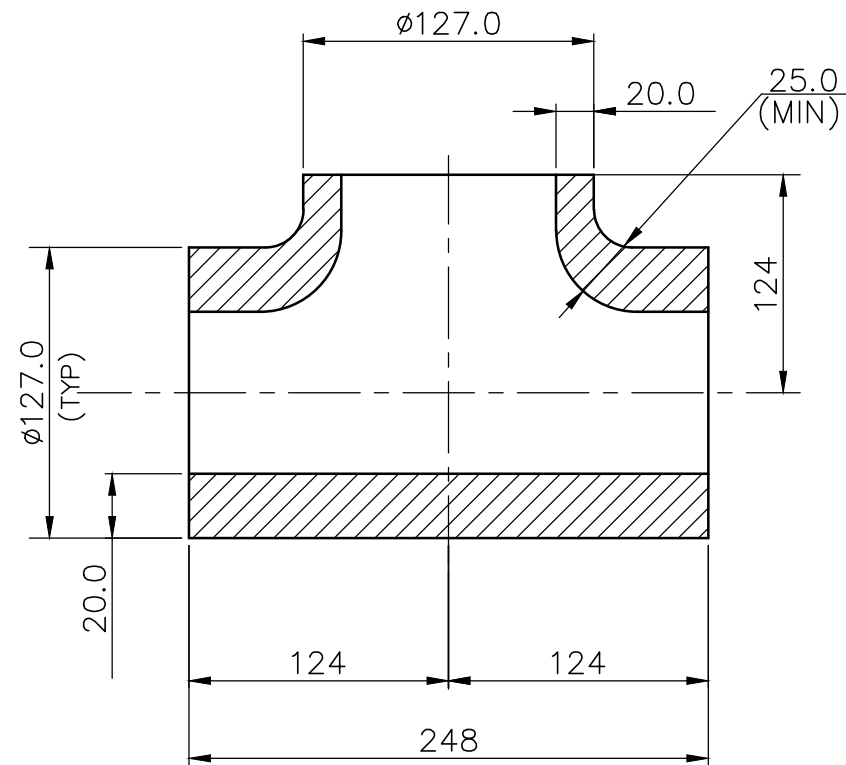
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2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 17.5mm.
6. FITTING SPECIFICATION : SB564 UNS6617.

		90 DEG LR ELBOW D127.0X20.0			921040710000	A		16.340
					SB564 UNS6617			
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT WEIGHT
					VAR NO	MATERIAL SPECN	DI	QUANTITY

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

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		 Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014 355-055	DRN	NAME	SIGNATURE	DATE
			CHD	K. SRIDHARAN		19.01.2015
			APPD	K. PERIASAMY		19.01.2015
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
CODE	121			NTS	16.340	
TITLE					DRAWING NO :	REV
ELBOW-RAW FORMING					3-24-800-03897	00

DRAWING NO: 3-24-800-03898



NOTES:

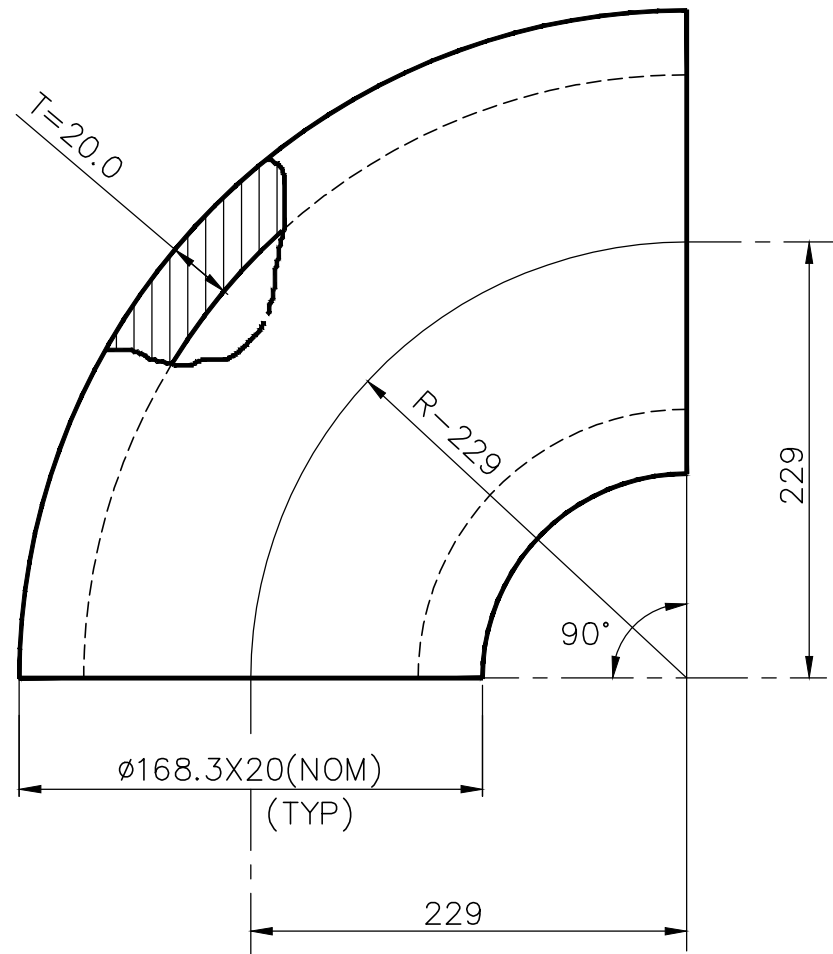
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		BW EQUAL TEE D127.0X20.0			921050090000	A	20.000
					SB564 UNS6617		
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT WEIGHT
					VAR NO	MATERIAL SPECN	QUANTITY

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

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		<p>Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014</p>		DRN	NAME	SIGNATURE	DATE
				CHD	K. SRIDHARAN		19.01.2015
				APPD	K. PERIASAMY		19.01.2015
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	121			NTS	20.000		
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EQUAL TEE -RAW FORMING						3-24-800-03898	00

DRAWING NO: 3-24-800-03899


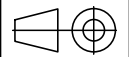


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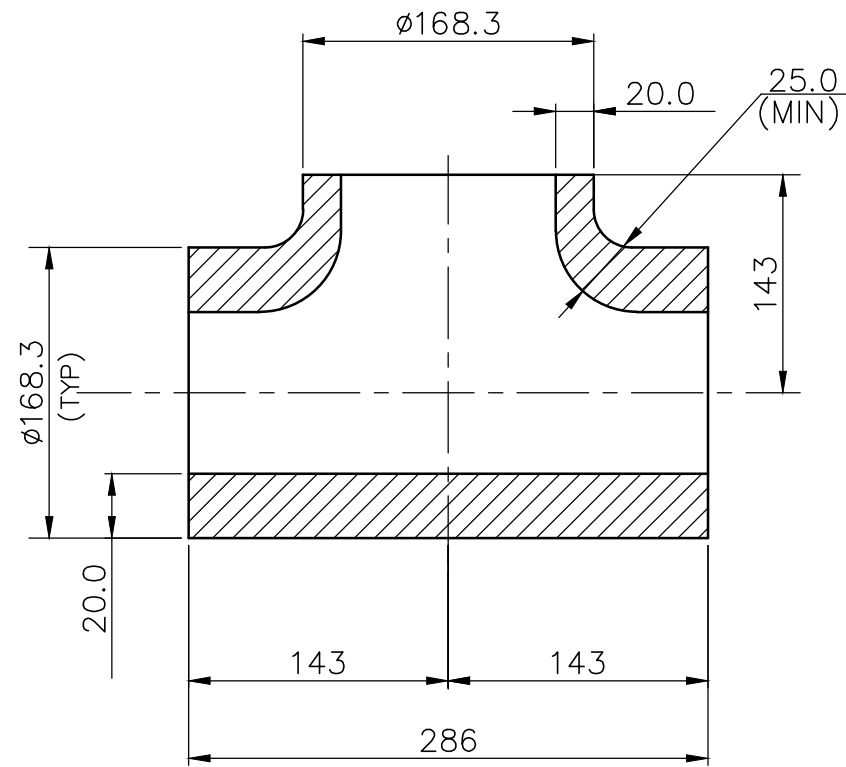
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3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 17.5mm.
6. FITTING SPECIFICATION : SB564 UNS6617.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	QTY
		90 DEG LR ELBOW D168.3X20.0				921040720000 SB564 UNS6617	A		27.150	
					VAR NO	MATERIAL SPECN	A/C/P	DI	QUANTITY	

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

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						CHD	K. SRIDHARAN		27.01.2015
						APPD	K. PERIASAMY		27.01.2015
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG			
CODE	121			NTS	27.150				
TITLE						DRAWING NO :	REV		
ELBOW-RAW FORMING						3-24-800-03899	00		

DRAWING NO: 3-24-800-03900



NOTES:

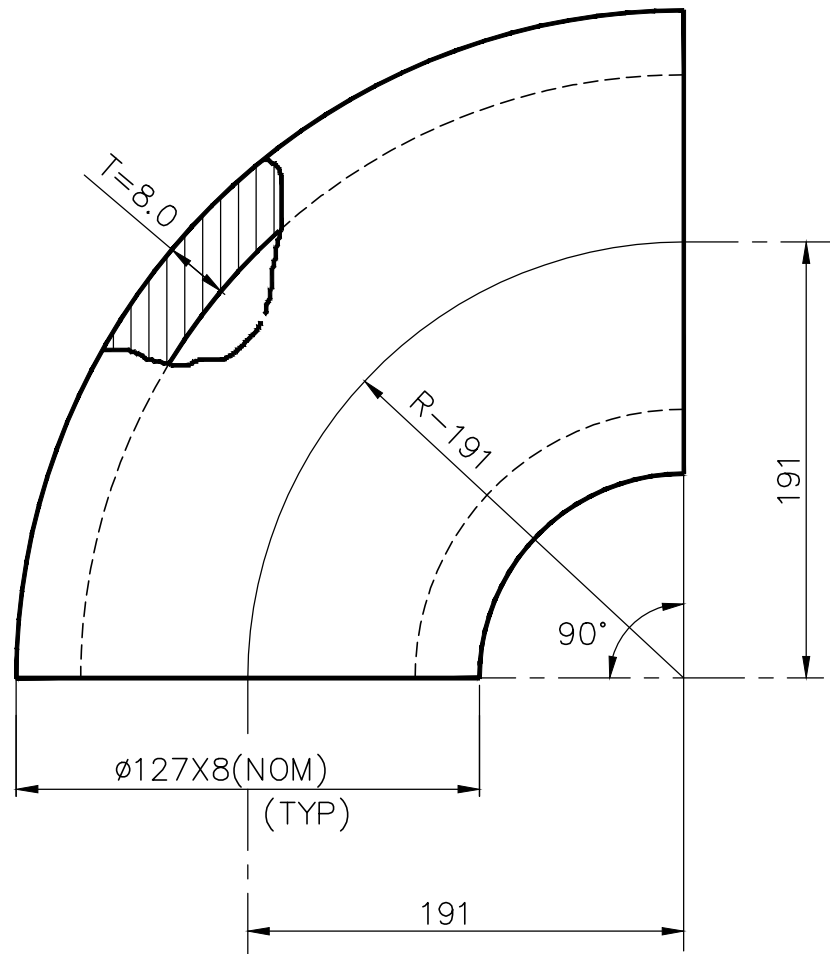
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		BW EQUAL TEE D168.3X20.0			921050100000	A	26.000
					SB564 UNS6617		
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT
					VAR NO	MATERIAL SPECN	DI
							QUANTITY

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

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						CHD	K. SRIDHARAN		19.01.2015
						APPD	K.PERIASAMY		19.01.2015
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG			
CODE	121			NTS	26.000				
TITLE					DRAWING NO :	REV			
EQUAL TEE -RAW FORMING					3-24-800-03900	00			

DRAWING NO: 3-24-800-03901



NOTES:

1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 7.0mm.
6. FITTING SPECIFICATION : SB564 UNS6617.

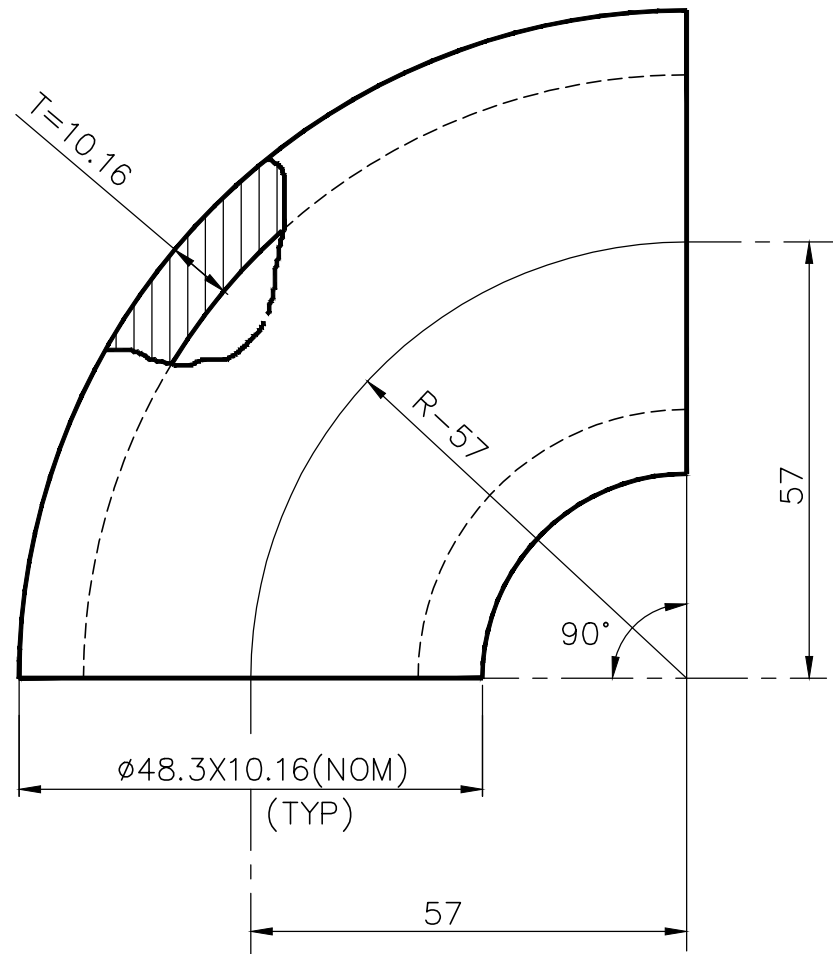
		90 DEG LR ELBOW D127.0X8.0			921040730000 SB564 UNS6617	A		7.270
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT	UNIT WEIGHT
					VAR NO	MATERIAL SPECN	DI	QUANTITY

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014 355-055		DRN	NAME SUSHEEL	SIGNATURE	DATE 27.01.2015
		CHD	K.SRIDHARAN		27.01.2015		
		APPD	K. PERIASAMY		27.01.2015		
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	121			NTS	7.270		
TITLE						DRAWING NO :	REV
ELBOW-RAW FORMING						3-24-800-03901	00

DRAWING NO: 3-24-800-03902

FOR TOLERANCES OF UNTOLERANCED


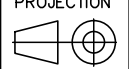


NOTES:

1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 8.90mm.
6. FITTING SPECIFICATION : SB564 UNS6617.

		90 DEG LR ELBOW D48.3X10.16			921040740000 SB564 UNS6617	A		1.000
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT
					VAR NO	MATERIAL SPECN	DI	QUANTITY

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">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.</p>		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
		 Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME	SIGNATURE	DATE
				CHD	K.SRIDHARAN		27.01.2015
				APPD	K.PERIASAMY		27.01.2015
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	121			NTS	1.000		
TITLE						DRAWING NO :	REV
ELBOW-RAW FORMING						3-24-800-03902	00

BHARAT HEAVY ELECTRICALS LIMITED
MM / PURCHASE - C&F
BHEL, Trichy – 620014

Annexure 2

Enquiry Terms and Conditions

Note: This annexure has to be mandatorily filled in and signed by the manufacturer (or) mill and submitted along with Technical bid

S.No.	BHEL Reuirements	Supplier Comments (Acceptance or otherwise for each point to be given)
1	<p><u>Material Specification:</u> Supply of Inconel Fittings shall be strictly as per the material specification mentioned against each item of the enquiry.</p>	
2	<p><u>Technical Conditions:</u></p> <ol style="list-style-type: none"> 1. Supply of Inconel Fittings shall be strictly as per drawings mentioned against each item of the enquiry. 2. Supply shall be as per TDC 437/01. 3. Inspection by authorized inspection agency attached (Annexure 2). 4. TC in FORM IIIC, works TC, Raw Material TC, UT report, MPI report and other test certificates as called in TDC 437/01 shall be sent along with supply. 	
3	<p>Payment Term (Indigenous)</p> <p>1. Payment term is 100% direct payment after 45 days from the date of receipt and acceptance of materials. Any deviation in the above payment term will attract loading as mentioned below.</p> <p>“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>2. Offers of indigenous Suppliers with payment terms as LC / Advance Payment are liable for rejection.</p> <p>3. 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>	
4	<p>Payment Term (Imports)</p> <p>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.</p> <p>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>2. In the case of Usance LCs the loading will be considered @ 1.5% on the offered Value.</p> <p>3. For LC at sight the loading will be considered @ 3.5% on the offered Value.</p>	

	<p>4. In case of LC, LC will be opened only on intimation of readiness of material for shipment. LC will not be opened prior to readiness of materials.</p> <p>5. Normally CAD at sight and Confirmed LCs are liable for rejection. However, if CAD at sight is accepted by BHEL, a loading of 5% will be done on the offered Value.</p>	
5	<p>Liquidated Damages / Penalty</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. If LD is not accepted on total order value a loading of 10% on the offered value will be done.</p> <p>4. For FOB contract LD will be calculated from the date of TPI signature.</p>	
6	<p>Bank Guarantee:</p> <p>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% (Ten percent) of the value of the contract. 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>	
7	<p>Risk Purchase:</p> <p>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 despatch 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.</p>	
8	<p>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	
9	<p>Fixed Price:</p> <p>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 with regard to total price and unit price whichever is less shall be considered correct. Unit rates quoted should include all the charges like third party inspection charges, packing & Forwarding etc. If the charges are shown separately, the same shall be in % of basic unit rate. No Lump sum charges shall be quoted.</p>	
10	<p>Bid Currency:</p> <p>1. Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit their bid in their preferred currency.</p> <p>2. For evaluation, Exchange rate (TT selling Rate of SBI) as on Techno-Commercial bid opening date shall be considered.</p>	

	<p>3. Suppliers to quote their rates on FOB/Load Port basis only for the below ports clearly mentioning their preferred type of Loading (Containerised Cargo or Break Bulk cargo).</p> <p>* 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, Yokohama.</p> <p>* 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, Durban,</p> <p>* The available load ports for BB (Break Bulk) Cargo in Freight Contract are Antwerp, Hamburg, Genoa.</p> <p>4. For FOB contract delivery period mentioned shall be the date of TPI signature.</p>	
11	<p>Validity:</p> <p>1. The offers shall be kept open for acceptance for 90 days from the date of Tender opening. Once the tenders are submitted, rates cannot be changed on any grounds.</p> <p>2. 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.</p> <p>3. 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.</p>	
12	<p>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.</p>	
13	<p>1. Bidders shall submit the OFFER in English language (a single envelope containing two inner envelopes) as indicated below:</p> <p>Envelope 1: This sealed envelope should contain (a) technical bid (b) un-priced commercial bid (copy of the Priced Bid without the price details) This envelope should be clearly marked "Part I – Technical and Un-priced commercial bid, indicating Enquiry No., Due Date, Address & Reference of the Bidder.</p> <p>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.</p> <p>2. The OFFER, sealed and Super scribed as "Parts I & II 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.</p> <p>The OFFER to be addressed to: Sr. MANAGER / PURCHASE - C&F / MM 4th Floor - Building 24 BHARAT HEAVY ELECTRICALS LIMITED HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620 014 TAMIL NADU, INDIA.</p>	

Note: Bidders are requested to submit their offers only through sealed bids.

3. Bidders may submit their bids through email/fax etc.

4. 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.

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.

5. Offers from Stockists, traders will not be acceptable.

6. 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 authorising the Indian agent to submit the offer on their Principal's behalf. 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. Copy of current agency agreement is to be enclosed without which the offer is liable for rejection.

The correspondence between the bidder and BHEL through email is considered to be valid document legally though not signed. It is treated as valid confirmations made on behalf of the respective company and comes under the legal ambit of the business transaction and hence binding on both the parties.

Bidders participating in the tender should declare in their technical bid whether they have been black-listed / kept on hold / given Business holiday for a specified period by any Public Sector Undertaking or Government Departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer, it will be construed that the bidder is not under any such hold.

However, at a later date if it comes to the notice of BHEL about any such hold under enforcement, BHEL reserves the right to reject the offer at any point of time and also under any stage of the finalisation of the tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably.

7. 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 AND THE OTHER REQUIRED DOCUMENTS CALLED FOR IN THE SRF (INCLUDING D&B REPORTS FOR IMPORT VENDORS. ALONG WITH THE TECHNICAL BID WITHOUT FAIL. The same shall be scrutinized as per BHEL evaluation procedures

OFFERS SUBMITTED WITHOUT THIS WILL BE REJECTED

8. 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 INCONEL MATERIAL/TENDERED SPECIFICATIONS AND TEST CERTIFICATES FOR THE SAME; FOR OFFER ACCEPTANCE. THE MANUFACTURER SHALL HAVE MANUFACTURED INCONEL MATERIAL / TENDERED SPEC AND THE SAME SHALL HAVE BEEN SUPPLIED/IN USE/OPERATION.

9. 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 TDC REQUIREMENTS (product form wise) ALONG WITH THE TECHNICAL BID SHOULD BE SUBMITTED WITHOUT FAIL SPECIFIC TO INCONEL.

The same shall be scrutinized as per BHEL evaluation procedures.

OFFERS SUBMITTED WITHOUT THIS WILL BE REJECTED.

10. If supplier is not a steel maker then source & form of raw material for the manufacturing shall be submitted product form wise.

11. The manufacturer shall submit filled in forging supplier facility report. Offers submitted without this will be rejected. Suppliers without basic manufacturing facilities in-house, shall not be considered for evaluation.

12. In house test facilities for mechanical, chemical & non - destructive testing are mandatory requirements for consideration of this offer.

13. 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.

14. Acceptance of TC by BHEL before dispatch is must.

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

16. 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 (shall be in English) is to be signed and sealed in original by mill without fail.



FORGE SHOP

- 1.00.00 Name of Company, Address

- 2.00.00 Type & No. of Forging Press : Forging hammer
Capacity - (Tonnes)

- 3.00.00 Max. size of Material that can be handled
dimensions, weight and type of materials.

- 4.00.00 Production with relevant standards (for last three years)

Carbon Steel

Stainless Steel

Alloy steel

Inconel -

- 5.00.00 Heating Facilities -

- 5.10.00 Furnace - No. and capacity

- 5.10.10 Type - Oil Fired, Gas Fired, Electric
heating

- 5.10.20 Dimensions

- 5.10.30 Mode of Temperature control & extent
of automation.

- 5.10.40 Temperature recording facilities

- 5.20.00 Distance of heating furnace from Forging Press

- 5.30.00 Handling Facilities - Crane/Truck/Manual/ any other
indicate list of such facility.

- 6.00.00 Availability of in-house Heat Yes/No
Treatment facility

- 6.10.00 If yes: Type of heat treatment possible



FORGE SHOP

- 6.20.00 If no, source of Heat Treatment with relevant details.
- 6.20.10 Annealing -
- 6.20.20 Normalising -
- 6.20.30 Stress Relieving -
- 6.20.40 Quenching: - Water/Oil
Any other Heat treatment? -
- 6.20.50 Type & No. of Furnace -
- 6.20.60 Dimensions, Type of Temp. Control,
Temp - Time Recording facilities.
- 7.00.00 Source of Raw Materials -
Indigenous/imported (Indicate source and quantity of
material procured during last three years)
- 8.00.00 Machining Facilities -
List of machines installed
- 9.00.00 Cutting facilities - Type & No. of Machine
- 10.00.00 Availability of testing facilities Yes/No
- 10.10.00 If no - Indicate source of testing with relevant details
- 10.20.00 If yes :-
- 10.20.10 Chemical Analysis: Method
- 10.20.20 Mech. Testing
- 10.20.21 Hardness testing
- 10.20.22 Metallorgraphy
- 10.20.23 Universal Tensile Testing M/C -
Ambient Low Temp.
- 10.20.24 Any other tests -
- 10.30.00 Non-destructive
- 10.30.10 Radiography



FORGE SHOP

- 10.30.20 Ultrasonic Test
- 10.30.30 Dye Penetration
- 10.30.40 MPI
- 10.30.50 Any other NDE
- 11.00.00 Experience with Third Party/Statutory Agency:
Indicate the agency
- 12.00.00 Source of procurement of Dies & availability for
Machining of such dies.
- 13.00.00 Consistency in supply:
- 13.10.00 Has the vendor produced items of similar nature in
past?
- 13.20.00 Has the vendor maintained delivery commitments in
past?
- 13.30.00 Has there been frequent labor trouble in past?
- 13.40.00 Has there been major upset due to faulty
material management?
- 13.50.00 Is the system of planning & scheduling resilient
enough to overcome temporary setbacks & make
up lost time?
- 13.60.00 Has the vendor got standby arrangement for power?
- 13.70.00 Can the vendor quickly offload the work to other
reliable sub-vendor?
- 13.80.00 Total order booked till date.
- 14.00.00 Remarks:

PLACE:

SIGNATURE WITH SEAL

DATE:

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 bank
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 bank
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



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
(DEPTT. OF INDUSTRIAL POLICY & PROMOTION)

UDYOG BHAWAN, NEW DELHI-110107,
दिनांक/ Dated, the 8th October, 2014

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, 2014.

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, 2014 for your reference and record.

Thanking you,

Yours faithfully,

(S. K. Jain)

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

(As on 30/09/2014)

INSPECTING AUTHORITIES

NAME OF THE AUTHORITY

AREA OF OPERATION

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. Director of Boilers Telangana	Telangana
26. Chief Inspector of Boilers, Tripura	Tripura
27. Director of Boilers, Uttar Pradesh	Uttar Pradesh
28. Chief Inspector of Boilers Uttarakhand	Uttarakhand
29. Chief Inspector of Boilers, West Bengal	West Bengal
30. 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, Telangana & Odisha
31. 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 , Haryana , Madhya Pradesh, Maharashtra , Odisha , Tamil Nadu, Bihar, Jharkhand, Sikkim & West Bengal
32. M/s ABS Industrial Verification (India) Pvt. Limited, 10 th Floor, Lakhani's Centrum, Sector-15, Plot No. 27, CBD Belapur (E), Navi Mumbai-400 614	Maharashtra, Odisha & West Bengal

- | | | |
|-----|--|--|
| 33. | M/s TUV India Pvt. Limited
(TUV Nord Group)
801, Raheja Plaza-1,
L.B.S. Marg,
Ghatkopar(W)
Mumbai-400 086 | Andhra Pradesh, Gujarat,
Maharashtra, Himachal Pradesh,
TamilNadu, Telangana & Karnataka |
| 34. | M/s. TUV Nord Systems GmbH Co.KG.
Langemarckstr 20
451141 Essen
GERMANY. | Europe, Brazil, China, Korea
and Thailand |
| 35. | M/s RSA
(Formerly Royal & Sun Alliance plc)
17 York Street,
Manchester, M2 3RS,
United Kingdom | Europe |
| 36. | M/s. Japan Inspection Company Limited,
No.10-7, 1-Chome, hatchobori, Chou-ku,
Tokyo, 104-0032, Japan | All countries in Asia except
India |
| 37. | M/s. S.G.S. Korea Company Limited,
Industrial Division,
647-2, Sinpyeong-dong,
Saha-gu, Busan,
KOREA (604-030). | Korea & Japan |
| 38. | M/s Bureau Veritas,
67-71, Boulevard du Chateau,
92200 Neuilly-sur-Seine,
FRANCE | All countries except India. |
| 39. | M/s. Lloyds Register Verification Ltd.,
71, Fenchurch Street,
London EC 3M, U.K. | All countries except India. |
| 40. | 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 |
| 41. | M/s TUV Rheinland AG
Am Grauen stein, D-51105 Koln,
Germany | All countries except India |
| 42. | M/s OOO "TekhnoLogicheskieEnergositime"
1. Kalinia St. Belgorod, 308001
Russia | Russia, China, Ukraine, USA
& Germany |

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| 43 | M/s Engineering Bureau Franke International,
55, Amurskaya St.,
Dnepropetrovsk
49108, Ukraine | Ukraine, Russia, Belarus, China ,
Uzbekistan, Poland, Belgium, Romania,
& Czech Republic |
| 44. | 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 |
| 45. | M/s Tata Projects Limited,
Quality Service Division,
2 nd Floor, Varun Towers-1,
Begumpet,
Hyderabad-500 016 | All countries except India |
| 46. | M/s TUV SUD Industrie Service GmbH,
Wstendstr. 199,
80686 Munich,
Germany | All countries except India |
| 47. | M/s Germanischer Lloyd Industrial Services GmbH,
Steinhoeft 9,
20459 Hamburg,
Germany | All countries except India |
| 48 | M/s. TUV Thuringen e.V.,
Business Division Steam and Pressure Technology,
Melchendorfer Str. 64,
99096 Erfurt,
Germany | Europe |
| 49. | M/s. SGS-CSTC Standards Technical Services Co. Ltd.
9 th Building, No. 69,
KangQiao Industrial Park, Block 1159,
KangQiao East Road, Pudong District,
Shanghai-201 319
China | China |
| 50 | M/s Intertek Inspection Services UK Limited
(Formerly M/s Moody International Limited)
Hayworthe House, Market Place,
Haywards Heath, West Sussex,
United Kingdom | All countries except India |
| 51. | M/s ABSG Consulting Inc.,
16855 Northchase Drive,
Houston, TX 77060
United States of America | All countries except India |

52. M/s. Hartford Steam Boiler Inspection and
Insurance Company of Connecticut,
One State Street, 8th Floor
Hartford, CT 06141-0299
U.S.A.

All countries except India
and China

53. M/s. Certification Engineers International Limited,
D 101-106, First Floor,
International Technology Centre,
CBD Belapur Station Complex, Navi Mumbai-400 614

All countries in Europe,
Middle East & China

54. M/s. Det Norske Veritas AS,
Veritasveien 1, PO Box 300,
N-1322, Hovik,
Norway

Europe, South & North
America and Asia (except India)

(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: