



Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli - 620 014, TAMIL NADU, INDIA

SUB CONTRACTING MACHINING / MFG

SCM / MFG, BHEL, TIRUCHIRAPALLI requires qualified vendors for heat treatment of Boiler Components in part or in full with free issue of materials by BHEL, Tiruchirappalli.

Phone: +91 431 257 4662 / 257 4552

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Email : raja@bheltry.co.in

als@bheltry.co.in

	Reference Number: Enquiry: SCM: NEW VENDOR	Enquiry Date: 30-04-2014	Last date for submission of registration forms up to 29-04-2015
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BHEL, Trichy invites Expression of Interest from new vendors for heat treatment (normalizing & tempering and solution annealing) of boiler components - circuits of re heater and super heater coils with free issue of raw materials.

Product profile 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 "SCM: NEW VENDOR "

Last date for the submission of Vendor Registration forms up to 29-04-2015.	<p>Yours faithfully</p> <p>For Bharat Heavy Electricals Limited</p> <p>SDGM / SCM / MFG</p> <p>Building-53, BHEL, Tiruchirappalli 620 014.</p> <p>Ph : 0431 – 2574662, 2574552,</p> <p>Fax: 0431 - 2520333</p> <p>Email : raja@bheltry.co.in</p> <p>als@bheltry.co.in</p>
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427-300

BHARAT HEAVY ELECTRICALS LIMITED**TIRUCHIRAPALLI 620 01****SCM (MFG)****SUBCONTRACTOR BIO - DATA**

PHOTO OF
PROPRIETOR /
MG.PARTNER

1. NAME OF THE COMPANY :
2. ADDRESS OF FIRM :
3. CONSTITUTION : PROPRIETORY / Partnership / Pvt. Ltd./Ltd.
4. NAME AND ADDRESS
OF PROPRIETOR /
PARTNER / DIRECTOR/s :

(IF REQUIRED SEPARATE ENCLOSURE SHALL BE ATTACHED)

5.	CONSTITUTION	% OF SHARE	TECHNICAL QUALIFICATION	DOCUMENTARY PROOF
a.	If Partnership Concern			i) Copy of the latest registered partnership deed duly indicating the percentage of share. ii) Form-A Rule V issued by Registrar of Firms. Articles of Association
b.	For Private Limited Company i) Managing Director ii) Technical Director			
c.	For Proprietary Concern (Name of the proprietor)			

6. SSI No. from DIC :
(Copy to be submitted)
7. Area available for Production :
 - a) Covered shed area :
 - b) Open area with level concrete floor :
 - c) Area available for storage raw materials and finished products :
 - d) Total :

8. Clear Document regarding allotment :
(Copy to be furnished as Documentary proof)
9. Connected Power & Name details :
(EB Card copy to be furnished)
10. Organisation for Production and Quality
a) Production (No. of Employees) :
b) Quality (No. of Employees) :
11. Number of Employees available :
a) Permanent
b) Temporary
12. Directors / Partners, if related to any BHEL employee.
Name :
Staff No. :
Designation :
Department :
Relationship :
13. If any ex-BHEL personnel is employed by the company,
Mention his / her details of last posting.
Name :
Staff No. :
Designation :
Department :
Date of leaving service :
14. Reference list for previous experience :
15. Banker's Name and Address :

SIGNATURE WITH SEAL
(PROPRIETOR /
MANAGING PARTNER)



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI 620 014
SCM / MANUFACTURING
SUBCONTRACTOR REGISTRATION FORM
FOR– NORMALISING & TEMPERING

NAME : M/s

ADDRESS :

SL NO	DETAILS	MINIMUM REQUIREMENT	STATUS	REMARKS
1	Company			
	a) Constitution	Private / Partnership / Public		
	b) Qualification of Proprietor / Partner / Supervisor	Degree / Diploma / ITI with experience		
2	c) Representative	Collection of materials, documents & coordination with Stores, QC, Shop & Accts		
3	Land Total Area	1 acre minimum		
	Closed shed for heat treatment and material storage excluding Office Room	8000 sq ft minimum		
	Land (Own / Lease / Rent)			
	Documents			
	a)			
	b)			
	c)			
4	Office Room with internet facility			
5	Handling – Crane Facility with stability certificate	10 T crane – 1 No. minimum		

SL No.	DETAILS	MINIMUM REQUIRED	STATUS	REMARKS
6	All round Fencing			
7	FURNACE DETAILS:			
	a) Length x Width x height	Length 8m to 20m, width -2.5m to 3.5m, height – 600 mm minimum.		
	b) Type of furnace	Batch type		
	c) Type of heating	Oil fired/ gas fired/ electrical		
	d) Type of loading			
	e) Maximum temperature achievable	Normalising 1040 to 1070 Deg C Tempering 730 to 760 Deg C		
	f) Facility for forced air cooling			
8	IBR approval for the firm to conduct heat treatment			
9	Calibration Status of the furnace & instruments			
10	Hardness testing	facility to test upto 500 BHN		
11	Quality system in the firm			
12	a) Telephone / Mobile No.			
	b) PC with INTERNET facility			
	c) E-Mail ID			
13	Additional Facility if any			
14	1.Solvency Certificate (for new vendors) 2. Balance Sheets & IT Return (4 Years) for the existing vendors 3. Willingness to execute BG			

SL No.	DETAILS	MINIMUM REQUIRED	STATUS	REMARKS
15	Man power			
16	Other information			
	a) Organisation chart			
	b) Contact Person			
	c) IT PAN No.			
	d) EM/ SSI/ Corporate Identity No.			
	e) PF No.			
	f) ESI No.			
	g)Excise regn certificate			
	h) Power Connection details			
	i) Genset			

SIGNATURE WITH SEAL
(PROPRIETOR /
MANAGING PARTNER)

RECOMMENDATION	(for Assessor's report Additional sheets can be used)

Evaluation Committee

Assessor 1

Assessor 2



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI 620 014
SCM / MANUFACTURING
SUBCONTRACTOR REGISTRATION FORM
FOR SOLUTION ANNEALING

NAME : M/s

ADDRESS :

SL NO	DETAILS	MINIMUM REQUIREMENT	STATUS	REMARKS
1	Company			
	a) Constitution	Private / Partnership / Public		
	b) Qualification of Proprietor / Partner / Supervisor	Degree / Diploma / ITI with experience		
2	c) Representative	Collection of materials, documents & coordination with Stores, QC, Shop & Accts		
3	Land Total Area	1 acre minimum		
	Closed shed for heat treatment and material storage excluding Office Room	8000 sq ft minimum		
	Land (Own / Lease / Rent)			
	Documents			
	a)			
	b)			
	c)			
4	Office Room with internet facility			
5	Handling – Crane Facility with stability certificate	10 T crane – 1 No. minimum		

SL No.	DETAILS	MINIMUM REQUIRED	STATUS	REMARKS
6	All round Fencing			
7	FURNACE DETAILS:			
	g) Length x Width x height	Length 8m to 20m, width -2.5m to 3.5m, height – 600 mm minimum.		
	h) Type of furnace	Batch type		
	i) Type of heating	Oil fired/ gas fired/ electrical		
	j) Type of loading			
	k) Maximum temperature achievable	For solution annealing 1150 to 1150 Deg C		
	l) Facility for forced air cooling			
8	IBR approval for the firm to conduct heat treatment			
9	Calibration Status of the furnace & instruments			
10	Hardness testing	facility to test upto 500 BHN		
11	Quality system in the firm			
12	a) Telephone / Mobile No.			
	b) PC with INTERNET facility			
	c) E-Mail ID			
13	Additional Facility if any			
14	1.Solvency Certificate (for new vendors) 2. Balance Sheets & IT Return (4 Years) for the existing vendors 3. Willingness to execute BG			

SL No.	DETAILS	MINIMUM REQUIRED	STATUS	REMARKS
15	Man power			
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	a) Organisation chart			
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	e) PF No.			
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	g)Excise regn certificate			
	h) Power Connection details			
	j) Genset			

SIGNATURE WITH SEAL
(PROPRIETOR /
MANAGING PARTNER)

RECOMMENDATION	(for Assessor's report Additional sheets can be used)
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Evaluation Committee

Assessor 1

Assessor 2

<u>CHECK LIST FOR DOCUMENTS SUBMISSION BY VENDOR- For Normaling & Tempering and Solution Annealing</u>			
<u>Sl No</u>	<u>Description</u>	<u>Remarks</u>	<u># Page no.</u>
1	Vendor Name & Address: (Firm & office address)		
2	Vendor Request Letter (Product to be specified)		
3	Bio data (In BHEL Format)		
3a	Vendor Application Form- Normalising & tempering, Solution Annealing (In BHEL Format)		
4	If vendor is already enlisted with BHEL, <u>provide the vendor code</u> , BHEL Unit and product details already enlisted.		
5	IBR Certificate of the Firm – for conducting heat treatment		
6	Contact Person name , Designation , Phone / Mobile Nos , email id.		
7	Registered Partnership Deed with Form-C with legal clearance.(Not Applicable for Proprietorship)		
8	PVT Ltd or Public Ltd Co - Certificate of incorporation, Memorandum of Assn , Articles of Assn (Not Applicable for Proprietorship)		
9	Land Doc on Company Name (minimum 1 acre* for PP) + Corporation Tax Certificate		
10	Lease Agreement of the land (min 5 yrs) with Firm + Land Owner's Basic Doc + Corp Tax Certificate (If the land Doc is not in the Company name)		
11	Encumbrance Certificate for land for 15 yrs from the land registration office (obtained within a month)		
12	Approved Organization chart		
13	No. of executives, supervisors, Artisans		
14	List of Machineries -make, capacity and No. of machines.		
15	List of Measuring Instruments with calibration status		
16	Calibration certificate for all instruments of furnace		
17	Crane : if A Frame - Capacity in tons , Qty & Stability certificate		
18	Crane : if EOT crane - Capacity in tons , Qty & Stability certificate		
19	If Mobile mention crane Capacity, Enclose RC Book copy- own / lease with agreement Contract		

CHECK LIST FOR DOCUMENTS SUBMISSION BY VENDOR- For Normaling & Tempering and Solution Annealing			
SI No	Description	Remarks	# Page no.
20	3 Phase Electricity connection - EB (Electricity Board)- Card in the name of Firm/ Land owners in case of lease - Xerox copy		
21	Gen set Power Capacity available in the firm		
22	Entrepreneur Memo No (EM No) / Corporate Identity No (CI No)- Xerox copy		
23	VAT Certificate / TIN allotment - Xerox copy		
24	Excise Reg certificate - Xerox copy		
25	IT PAN card the Firm - Xerox copy		
26	Solvency certificate (issued by Bank)		
27	IT Return (last 4 yrs)		
28	Audited Balance Sheet for latest 4 years		
29	Required ratios from balance sheets		
	a)Net worth growth % over previous year (last 4 yrs) b)Sales growth % over previous year (last 4 yrs) c)Debt equity ratio (last 4 yrs) d)Current ratio (last 4 yrs) e)PBT % of growth over previous year(last 4 yrs) f)PAT % of growth over previous year(last 4 yrs)		
30	Bankers Loan sanction advice copy (if any)		
31	e-payment Form with Bankers MICR code , BSR code & Account No. (After vendor Enlistment e-payment Form with Bankers with a cancelled cheque leaf shall be submitted)		
32	PF code		
33	ESI No.		
34	ISO - Certificate -if available.		
Note 1	English version to be submitted, If the certificate/Doc other than in English.		
Note 2	Original certificates/Doc will be verified during spot evaluation.		
Note 3	All Xerox copies shall be attested by Notary Public / Gazetted officer		
#	Provide the page no's as mentioned in the submitted documents.		
The above documents are enclosed		Recommendation (For BHEL Use)	
Vendor Signature with Firm's seal.			
		TCA sign & seal for document verification.	

NORMALISING & TEMPERING OF ALLOY STEEL(T91, T92, T23) BENDS

Tube Grade	: SA213 T91, SA213T92, SA213 T23.
Tube Diameter	: 63.5mm.
Tube Thickness Range	: 3.99mm to 5mm.
Normalising & Temperature	: 1040-1070 °c, 15 Min Soaking minimum. The Tube ends have to be covered by SS end caps during Normalising. Normalising should be done in an encompassed condition.
Tempering Temperature	: 745 ± 15°c, 30 Min Soaking minimum. Tempering should be done in an encompassed condition.
Heating Rate	: 220 °C/Hr Max at Temperature above 400°C.
Cooling Rate	: After Normalising the cooling shall be as follows, <ol style="list-style-type: none">1. <u>T91 & T92</u> Cooling shall be in Air.2. <u>T23</u> The Component has to be cooled rapidly and continuously (Forced Air Draft) to 205 °C before Tempering. After Tempering the cooling shall be as follows, <ol style="list-style-type: none">1. <u>T91, T92 & T23</u> Cooling shall be in Air.
Type of Furnace	: Batch Type
Product Configuration during N&T	: Only Bends will be supplied. The overall dimension of the bends may be 8 m X 3.3m.
Vendor Qualification	: IBR approved vendor.

SOLUTION ANNEALING OF STAINLESS STEEL BENDS

Tube Grade	: SA213 TP347H.
Tube Diameter	: 54 mm.
Tube Thickness Range	: 4 mm to 6.3 mm.
Sol Annealing Temperature	: 1100-1150 °c, 30 Min Soaking minimum. The Tube ends have to be covered by Stainless Steel end caps during Solution Annealing.
Heating& Cooling Rate	: 220 °C/Hr Max at Temperature above 400°C. Cooling shall be fast as Possible after Solution Annealing.
Type of Furnace	: Batch Type.
Product Configuration during Solution Annealing	: The Coil will be supplied in intermeshed form after Bending. The overall dimension of the intermeshed coil may be 20 m X 3.3m.
Vendor Qualification	: IBR approved vendor.