



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI – 620014, TAMILNADU
OUTSOURCING DEPARTMENT

EXPRESSION OF INTEREST (EOI)

(Ref No: BHEL/TRY/OS/EOI/PP/001) Dated: 22.04.2026

FOR

"Fabrication & Supply of Water Wall Panels (Membrane Water Wall Panels)"

Issued by:

Outsourcing Department, Bharat Heavy Electricals Limited, Trichy, TamilNadu-620014, INDIA

Registered office at

Bharat Heavy Electricals Limited, having registered office at BHEL House, Siri Fort New Delhi-110049 (Hereinafter referred to as 'BHEL')



**BHARAT HEAVY ELECTRICALS LIMITED
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INTRODUCTION

This Expression of Interest (EOI) seeks response from Vendors who are capable of **Fabrication & Supply of Water Wall Panels also known as Membrane Water Wall Panels** which is a Pressure Part Item required in a Thermal Power Plant (Super Critical Boilers & Sub Critical Boilers).

Raw material procurement shall be in Vendor's Scope or Raw material shall be issued by BHEL as Free Issue of Material (FIM).

For more details, kindly refer attached **Annexure A**.

INSTRUCTION TO APPLICANTS

Prospective Partner / Respondent may submit their application by submission of **Annexure B** (along with supporting documents with respect to Monthly Fabrication Capacity and Year of Experience) to the following contact detail via E-mail / Speed Post:

Mr. Ashish Kumar Gupta / Manager / Contracts Section

1st Floor, Building No. 53, Outsourcing Department

HPBP | BHEL | Tiruchirappalli – 620 014

Ph. No: 0431 – 257 4617 | 7031 | 4260

Email: ashishkg@bhel.in | chitralekha@bhel.in | mvlakshmi@bhel.in

The details submitted by the applicant(s) shall be complete in all respects and BHEL may seek clarifications/additional information as considered necessary.

Last Date for submission of EOI: 10-May-2026



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Annexure – A

BHEL, Tiruchirappalli invites **Expression of Interest (EOI)** from Vendors for fabrication & Supply of **Water Wall Panels (Pressure Part Items)** with **Vendor's Material / BHEL's Material (FIM)**. The Vendor is expected to deliver **100 ~ 200 MT/Month** for the below mentioned products. The brief description is as follows:

Product	Water Wall Panels (Pressure Part Item) required for 800 MW Thermal Power Plant (Coal Based)
Projects Covered	APL Kawai 2x800 MW Ph - II USTPP , Kawai, Atru Tehsil ,Baran District,Rajasthan Anuppur Thermal Power Plant, 2x800 MW , Madhya Pradesh, India

MAXIMUM WEIGHT & SIZES OF PANELS				
PRODUCT	Unit Weight - (In MT)	L (mm)	B (mm)	H (mm)
SPIRAL & TRANSITION PANELS	9.16	22500	3200	230
VERTICAL WALL & BACK PASS PANELS	7.82	24000	2500	200

MINIMUM WEIGHT & SIZES OF PANELS				
PRODUCT	Unit Weight - (In MT)	L (mm)	B (mm)	H (mm)
SPIRAL & TRANSITION PANELS	0.7 MT	4200	1300	300
VERTICAL WALL & BACK PASS PANELS	1 MT	3776	1920	57

Raw Material

Tube SA 213 T12 (38.1; 6.6, 8.13) (33.4; 5.6) (44.45; 6.6) (50.8; 7.62 & 8.64) (57.15; 8.64)	FIN FLAT- SA387GR12CL2 14.4X 6 16.4 X 6 47.35 x 8 52.05 X 8 54.05 X 8 69.2 X 8 81.37 X 8 85.7 X 6	PLATE- SA387GR12CL2 6 8 10 12 16 25 45	FORGED ELBOW SA182F12CL2 (D33.4 X 5.59/D38.1 X 8.13) (D38.1 X 6.6)	ROUND DIA SA182F12CL2 6 MM, 80 MM
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Major Processes involved

- Preparation of Tubes (Roto Blasting of Tubes & Tube to Tube Butt Joints)
- Fin calibration
- Fabrication of Water Wall Panels in Panel Processing Machine (PPM) having minimum 4 Welding Torch (Preferred Welding: MIG or SAW or FCAW)
- Repair Welding of Panels (Skips, Burn through, Porosity etc.) post Panel formation in PPM, if any.
- Bow Correction of Panels to ensure "squareness" of Panels.
- Gang bending of Panels, if required as per Drawing.
- Bending of Tubes in Tube bending Machine which is required for Panel's opening.
- Fit-up & Butt Welding of Bent Tubes for Panel Opening.
- Preparation of attachment such as V Clip, hanger Support Bracket Assembly, Tube Lug etc.
- Welding of Attachments on the Panels.
- Post Weld Heat Treatment (PWHT) of Panels in Continuous Discharge Furnace or Modular Furnace.
- Hydrotest & Painting of the Panels.

Handling requirements (Cranes)	Up to 10 MT
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Projected Quantum	APL Kawai: 2464 MT (2 Units) (St. Panels – 1868 MT & Gang Bend Panels - 596 MT) APL Annupur: 2464 MT (2 Units) (St. Panels – 1868 MT & Gang Bend Panels - 596 MT) Total: 4928 MT
Type of Vendor	Class I (Local Content $\geq 50\%$) or Class II Local Supplier ($20\% \leq$ Local Content $< 50\%$)
Brief Scope of Work by Vendor shall be as follows: <ul style="list-style-type: none">• Procurement of Raw materials such as Tubes, Fins, Plates etc from BHEL's approved sources or Raw material shall be issued by BHEL as Free Issue of Material (FIM).• Fabrication of Water Wall Panels (Pressure Part Item) as per BHEL's approved Drawings, Quality Work Instructions (QWIs), Technical Specification(s)• Post Weld Heat Treatment (PWHT) in Furnace• Hydro testing of the Panels• Painting of items as per relevant Painting Scheme &• Transportation of Finished goods to respective Project sites located within India.	

For any clarifications, kindly contact:

Manager / Contracts / OS

1st Floor, Building No. 53, Outsourcing Department | HPBP| BHEL | Tiruchirappalli – 620 014

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Annexure-B [Details required from Vendors]

S#	Details	Supplier's Response		
1	Name of the Firm / Company			
2	Registered Works' Address			
3	PAN of the Firm / Company			
4	Details of Contact Person	Name: Designation: Mobile No.: E- Mail:		
5	Type of Ownership (Tick the applicable one)	Proprietorship / Partnership / Limited		
6	Product Manufactured / Area of Business (Tick the applicable one)	Product	Years of experience	Monthly capacity (In MT per Month)
		Water Wall Panels (Membrane Water Wall Panels)		
7	List of Machineries available for Fabrication of Water Wall Panels (Membrane Water Wall Panels).			
8	Year of commencement of Business			
9	MSME Category (Tick the applicable one)	Micro / Small / Medium / Non-MSME		
	Type of Vendor (Tick the applicable one)	Class I Local Supplier / Class II Local Supplier (In case of Class II Local Supplier, kindly indicate the place(s) from where sourcing will be done.)		
10	Approx. Land area of Works Address (in acres)			



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S#	Details	Supplier's Response
11	Approximate Sales made in the last year (Rs. Lakhs)	
12	Profit Before Tax (PBT) (in Rs. Lakhs)	
13	Certification available (tick the applicable one)	ISO 9001 / ISO 14000 / ISO 18000
14	If already Registered with any other BHEL units	BHEL Unit Name: Supplier Code: Approved Product(s):
15	Any Feedback / Suggestion	
16	Any Deviation from above requirement	
17	Vendor's IBR approval	Available / Not Available

FEW PHOTOGRAPHS OF WATER WALL PANELS



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Straight Panel

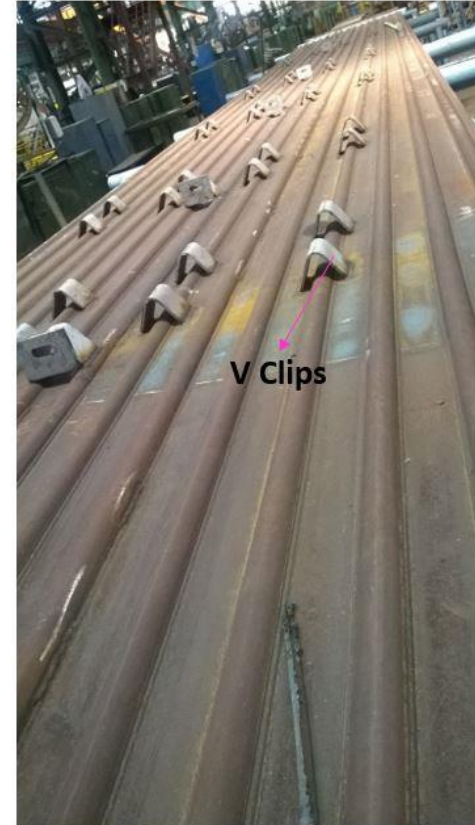
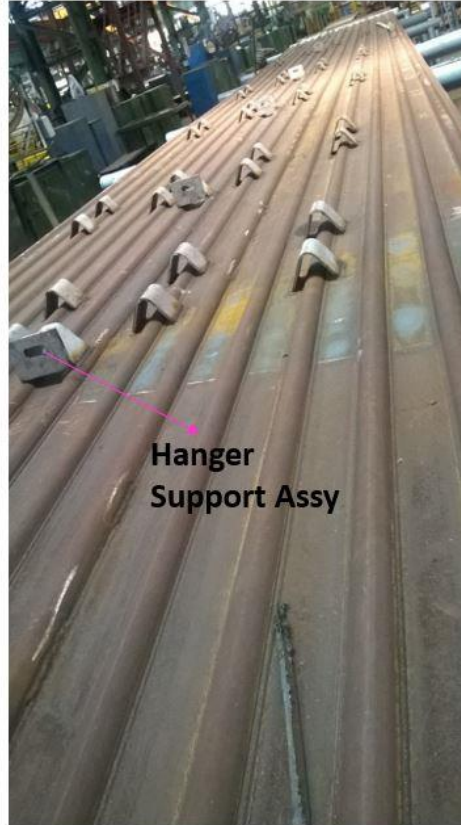


Gang bend Panel

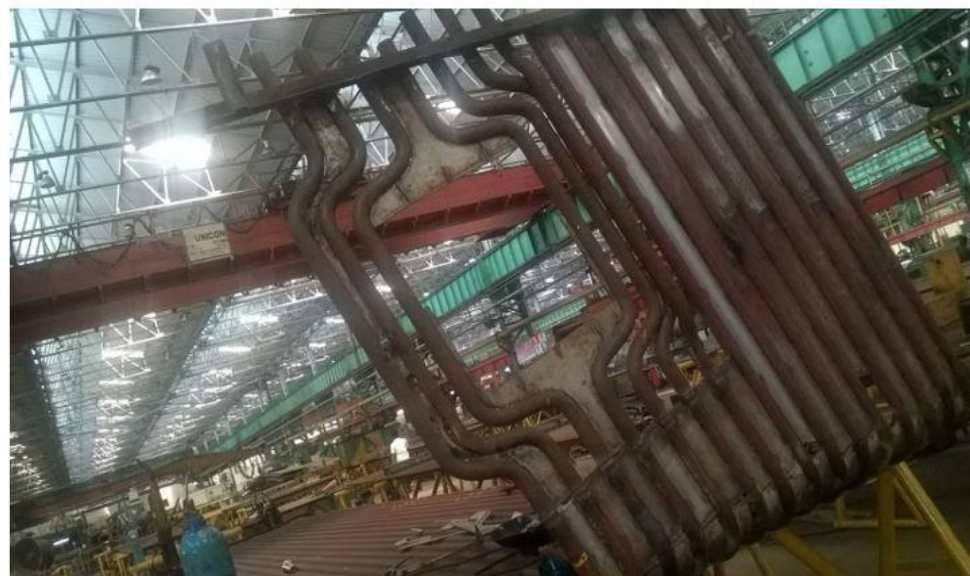
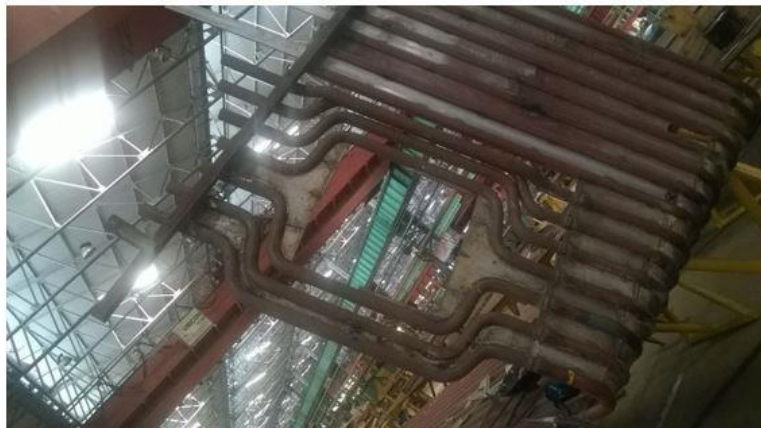


Terminal Panel

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