

BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462/223948
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Sub: Requirement of Stainless Steel Plates

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam turbines, turbo generators and so on.

Bids are invited for following items through GeM Portal- <https://gem.gov.in>

Item Description	Mat. Code	Size (mm)	Qty. (Kg)	Delivery
Stainless Steel Plates Specification- AA10740 Rev 09 Grade: IS 6911, X04Cr18Ni10Ti/ ASTM A240M, Type-321 / EN10088-2, X6CrNiTi18-10	AA1071840053	8 x 1250 x 4000	3520	28/02/2023
	AA1071840150	25 x 1250 x 4000	6000	28/02/2023
	HW1071840959	80 x 1250 x 4000	3200	28/02/2023
	HW1071840967	40 x 1150 x 4500	9940	28/02/2023
	HW1071840983	50 x 1250 x 4000	2000	28/02/2023
	AA1071840134	20 x 1250 x 4000	5600	28/02/2023
	AA1071840169	28 x 1250 x 4000	2240	28/02/2023
	AA1071840177	32 x 1250 x 4000	1280	28/02/2023
	AA1071840207	45 x 1300 x 4000	1900	28/02/2023
	HW1071840938	3 x 1500 x 3000	5850	28/02/2023
	HW1071840754	100 x 1250 x 4000	4000	28/02/2023
	HW1071840940	70 x 1250 x 4000	2800	28/02/2023
	HW1071840975	60 x 1250 x 4000	2400	28/02/2023
	AA1071840118	16 x 1250 x 4000	640	28/02/2023
	AA1071840185	36 x 1250 x 4000	2880	28/02/2023

Remarks-

- 1. Bidders to submit the desired credentials of manufacturer as per NPCIL agreed format (refer Annexure-I & Annexure-II). Same shall be forwarded to NPCIL for further approval. Offers of those vendors will be considered for price bid opening/RA only if it is approved by NPCIL (Nuclear Power Corporation of India Limited).**
- 2. Delivery period mentioned in enquiry is indicative, bidders to quote their best possible delivery.**
- 3. Plate width and thickness shall be as per our tender only.**
- 4. Vender can offer higher length size plates however acceptance of same shall be in BHEL discretion.**
- 5. Quantity tolerance $\pm 10\%$ is acceptable in view of dimensional tolerances.**
- 6. Risk Purchase:** In case of abnormal delays (beyond the maximum late delivery period as per LD clause in supplies / defective supplies or nonfulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative

source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer.

In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract or under General Law.

7. Payment terms shall be as follows:

Type of Bidder	Payment Terms (Number of days)
Micro & Small Enterprises (MSEs)	45 days
Medium Enterprises	60 days
Non MSME	90 days

8. EMD will be 1% of estimated / reference value, however EMD is waived in following cases-

- a. Central/ State – PSUs
- b. As per government guidelines, MSE suppliers are exempted for submission of EMD (Valid Documentary proof against MSE must be submitted along with offer to avail the benefits).
- c. The vendors registered with BHEL (HEEP), Haridwar are also exempted from EMD.
- d. Other exemptions on EMD will be as per GeM Terms and conditions.

Pre- Qualification Requirements

PQR Point	Requirements	Vendor to submit / confirm	Vendor's reply
1	<u>For Plate manufacturer:</u>		
	a	Vendor must be having Bureau of Indian Standard (BIS) approval for manufacturing of stainless-steel plates of IS 6911, X04Cr18Ni10Ti / ASTM A240M, Type 321 / EN10088-2, X6CrNiTi18-10.	Vendor to submit copy of valid BIS Certificate / BIS Certification number.
	b	Enquiry plate will be supplied as per BHEL enquiry specification and dimension.	Vendor to confirm.
2	<u>For trader / stockist / reseller:</u>		
	a	Vendor to submit their past experience for supply of stainless-steel plates / sheets against at least one purchase order in last seven years.	At least one purchase order and its correlated test certificates/dispatch note for stainless steel plate / sheet.
	b	Enquiry Plates shall be supplied from BIS approved manufacturer for IS 6911, X04Cr18Ni10Ti / ASTM A240M, Type 321 / EN10088-2, X6CrNiTi18-10 and dimension only.	Vendor to confirm.
	c	Enquiry plate will be supplied as per BHEL enquiry specification and dimension.	Vendor to confirm.

Sl. No.	Quality Requirement	Vendor's confirmation (Y/N)
1	Testing and certification as per ordering documents and specification.	
2	Bidders to submit the desired credentials of manufacturer as per NPCIL agreed format (refer Annexure-I & Annexure-II).	

Signature with stamp

Name:

Name of Firm:

Designation:

Date:

Annexure-I

NUCLEAR POWER CORPORATION OF INDIA LTD.

(A Government of India Enterprise)

CHECKLIST & RECOMMENDATION FOR EVALUATION OF VENDORS

Tender No :
Item/Package :
Name of Main Contractor :
Address and contact details of Main Contractor :
Name of Sub-contractor/Vendor :
Address of Sub-contractor :

Items for which approval is sought :

1.0 General:

1.1) Key Personnel contacted :
a) Senior Management :
b) Quality Co-ordinator :
c) Others (Production, Planning etc.) :

FOLLOWING ARE TO BE COMMENTED

1.2) Recognition details if any code Stamps like U1, U2, ASME N, NPI or certification Like ISO : 9001, 14000 etc. (Verify the records) :
1.3) Floor space availability for present Activities/for future expansion :
a) Indoor :
b) Outdoor :
1.4) Level of House keeping :
1.5) Whether NPC jobs executed earlier :
1.6) Delivery Performance (Schedule vs Actual) (Verify records) :

2.0 Technical

2.1) Quality Control :
(a) Incoming Material Inspection :
(b) Process Inspection :
(c) Final Inspection :
2.2) Plant & Machinery :
(a) General condition & Age :

- (b) Confirms to the details submitted in application :
- 2.3) Calibration facilities :
- 2.4) Calibration records :
- 2.5) NDE Qualification records :
- 2.6) Is there a system of selecting/ short listing Sub-vendors? :
- 2.7) Availability of Testing facilities :
- 2.8) Whether working of following are satisfactory?
 - (a) Production :
 - (b) Quality control :
- 2.9) Understanding of scope of work :
- 2.9.1) Understanding of technical requirement of Job :
- 2.10) Availability and understanding of related standards. :
- 2.11) Capacity of the Vendor to fabricate and inspect :
- 2.12) Understanding of special Examination/ Testing (like ultrasonic Examination/ Helium Leak testing, Optical alignment testing etc.) :
- 2.13) Availability of special facilities :
- 2.14) Facilities/Machineries/testing equipment available in the shop floor to meet technical requirement of the job :
- 2.15) Qualified and experience Manpower in the shop floor to execute the specified job :
- 3.0 Quality System :**
- 3.1) If ISO certified, check the availability and accessibility of Quality system manual :
- 3.2) Validity of ISO certification :
- 3.3) Whether Quality Control plan and Procedures are prepared? :
- 3.4) Whether organization chart is available? :
- 3.5) What is the level of Quality Control in the organization? :
- 3.6) Whether working of following are Satisfactory?
 - (a) Document control :
 - (b) Process Control :

Tender No. F/F219/22/1327/K1

- (c) Non-conformances control :
- 3.7) Whether Internal Quality Audits are carried out? :
- 3.8) Whether non-conformities during Internal Audits are recorded and disposed off following laid down procedure? :

4.0 Assessment

4.1 Understanding and interpretation by vendor

Sl No	Area of Assessment	Observation	Remark
1	Scope of work	Good/Satisfactory/Unsatisfactory	
2	Related standard	Good/Satisfactory/Unsatisfactory	
3	Construction features	Good/Satisfactory/Unsatisfactory	
4	Functional Requirement	Good/Satisfactory/Unsatisfactory	

4.2 Capability of Vendor

Sl No	Area of Assessment	Observation	Remark
1	To design/develop	Good/Satisfactory/Unsatisfactory	
2	To fabricate	Good/Satisfactory/Unsatisfactory	
3	To inspect	Good/Satisfactory/Unsatisfactory	
4	Specify remark on the capability of vendor to execute the job	Good/Satisfactory/Unsatisfactory	

4.3 Comments if any w.r.t. delivery schedules:


4.4 Comments if any on quality of product:

5.0 Conclusion:

Signatures of Team Members.

Sl No	Name	Designation	Signature & Date

Annexure-II

	MAIN CONTRACTOR's PROPOSAL CUM EVALUATION REPORT (FOR GHAVP- 1 & 2) मुख्य संविदाकार प्रस्ताव सह मुल्यांकन रिपोर्ट (GHAVP- 1 & 2के लिये)
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Ref No:	BHEL/VP/	Date:	
संदर्भ सं.:		तिथि:	
i.	Main Contractor मुख्य संविदाकार	BHEL, Haridwar	
ii.	Project / परियोजना	GHAVP- 1 & 2 (NPCIL)	
iii.	Package Name पैकेज का नाम	TG Island	
iv.	Proposed Item / प्रस्तावित मद		
v.	Name and Address of the proposed Sub-vendor's works /प्रस्तावित सब-वेंडर का नाम तथा पता:		
	Manufacturing vendor name and its address (If applicable)		
vi.	Brief description of the Sub-contractor, their products and capabilities in terms of manpower, machines, testing facilities etc.: - Details are mentioned below; (attached documents as Annexure-A)		
vii.	Supplier Performance Rating out of 100 (If applicable)		
viii.	BHEL PO Numbers already Placed on Vendor (attach Unpriced P.O. copies as Annexure-B)		
ix.	Details of and financial capability of Sub-contractor: - Details are mentioned below (attached Valid documents as Annexure-C) Profit Before Tax for Year 2020-2021.: Profit Before Tax for Year 2019-2020.: Profit Before Tax for Year 2018-2019.:		
x.	Whether the Sub-contractor supplied the Equipment/item/component to BHEL/NPCIL earlier. If supplied, please mention the project name and year; - Details are mentioned below		
	Sl. No.	Relevant Equipment/item/component	Project Name
			Year

xi.	Details of the other customers of the Sub-contractors: - Details are mentioned below.		
xii.	Details of their ISO and other certifications: - Details are mentioned below (attached Valid documents as Annexure-D)		
<p><i>We confirm that as per BHEL assessment, the proposed sub-vendor is fully capable for supplying the item in the project.</i></p> <p><i>BHEL के आकलन के अनुसार इस बात की पुष्टि करते हैं कि, प्रस्तावित उप-विक्रेता प्रस्तावित मद की आपूर्ति के लिए इस परियोजना में उपयुक्त है।</i></p> <p>Additional Remarks: -</p>			
Name / नाम	Design. / पद	Sign / हस्ताक्षर	Date/ तिथि

(Specification)

AA10740 Rev:09



CORPORATE PURCHASING SPECIFICATION

AA10740

Rev No. 09

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**AUSTENITIC STAINLESS STEEL SHEETS, PLATES AND STRIPS -
SOLUTION ANNEALED (IS:6911, X04Cr18Ni10Ti, / ASTM A240M,
TYPE 321 / EN10088-2, X6CrNiTi18-10)**

(ORDERING DESCRIPTION)

1 GENERAL

The sheets, plates and strips shall conform to the latest version of IS:6911, X04Cr18Ni10Ti, / ASTM A240M, Type 321 / EN10088-2, X6CrNiTi18-10 and comply with the following additional requirements.

2 APPLICATION

For general engineering purposes, where corrosion resistance is essential.

3 CONDITION OF DELIVERY

For Hot Rolled- Solution annealed and descaled

Cold Rolled – Solution annealed and dull/bright finish

4 DIMENSIONS AND TOLERANCES

Material shall be supplied to the dimensions specified in BHEL order.

5 CHEMICAL COMPOSITION, MECHANICAL PROPERTIES AND OTHER REQUIREMENTS:

As per IS:6911 , X04Cr18Ni10Ti / ASTM A240M, Type 321 / EN10088-2, X6CrNiTi18-10 as applicable.

6 TEST CERTIFICATES:

Three copies of test certificates shall be supplied along with the following information:

- **BHEL References:**
- AA10740 -Rev. No.09 / Material Grade as applicable
- BHEL order No
- **Supplier's References:**
- Name
- Identification No.
- Melt No.
- Process of manufacture
- Details of heat treatment.
- **Result of Tests:**
- Dimensional inspection.
- Results of chemical analysis, mechanical tests

Revisions:

Cl. 42.5 of MOM of MRC-S&GPS

APPROVED:INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(S&GPS)

Rev No.09

Amd No.

Reaffirmed

Prepared
HEEP, HaridwarIssued
Corp.R&DDt. of 1st Issue
April 1979

Dt:30-09-2020

Dt:

Year:

AA10740

Rev No. 09

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CORPORATE PURCHASING SPECIFICATION**7 PACKING AND MARKING:**

Sheets shall be supplied in bundles or in packages each weighing up to a maximum of 3000kg. Plates shall be suitably packed to prevent damage during transit.

For plates below 25mm thick, each pile (preferably of 16 plates) shall be marked with suppliers identification mark, 'AA10740 / Material, melt No., BHEL order No., on the top plate.

Each plate of 25mm thickness and above shall be stamped/painted with the suppliers identification mark, 'AA10740 / Material Grad, melt No., BHEL order No., on the top plate.

FOR INFORMATION ONLY

(ACTUAL VALUE TO BE TAKEN FOR IS/ASTM/EN AS APPLICABLE)

CHEMICAL COMPOSITION

C	Si	Mn	Ni	Cr	S	P	Ti	N
≤ 0.08	≤ 0.75	≤ 2.0	9.0-12.0	17.0-19.0	≤ 0.030	≤ 0.045	5(C+N)-0.70,max	0.10

MECHANICAL PROPERTIES

Hardness Max		0.2% PS min N/mm ²	UTS min N/mm ²	% El min
BHN	HRB			
217	95	205	515	40

CS-938-15-11/20

12/11/20