

**BHARAT HEAVY ELECTRICALS LIMITED**  
**HEEP HARIDWAR INDIA-PIN 249403**  
**FAX NO: 0091 1334 226462/223948**  
**PHONE NO: 0091 1334 284144**

**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>

Sl. No	Material code & Description	Size (mm)	Qty (Kg)	Delivery
1	<b>W96321501166</b> STAINLESS STEEL PLATES (13% CR - 4% NI) OF SIZE 12TK X 1200 WIDTH X 4200 LONG; AS PER ASTM A - 240 UNS -41500 (TYPE 415) WITH CHARPY V-NOTCH IMPACT TEST ON LONGITUDINAL & TRANSVERSE SPECIMEN, ULTRASONIC AND BEND TEST AS PER PRODUCT STANDARD HT10495 REV-02. N.STD: ASTM A - 240 UNS -41500-TYP415 SIZE: 12TK X 1200 WIDTH X 4200 LONG	12 x 1200 x 4200	2900	15.11.2023
2	<b>W96321501131</b> STAINLESS STEEL PLATES (13% CR - 4% NI) OF SIZE 12TK X 1200 WIDTH X 4200 LONG; AS PER ASTM A - 240 UNS -41500 (TYPE 415) WITH CHARPY V-NOTCH IMPACT TEST ON LONGITUDINAL & TRANSVERSE SPECIMEN, ULTRASONIC AND BEND TEST AS PER PRODUCT STANDARD HT10495 REV-02. N.STD: ASTM A - 240 UNS -41500-TYP415	32 x 1200 x 5500	27050	15.11.2023
3	<b>W96321501077</b> STAINLESS STEEL PLATES (13% CR - 4% NI) OF SIZE 12TK X 1200 WIDTH X 4200 LONG; AS PER ASTM A - 240 UNS -41500 (TYPE 415) WITH CHARPY V-NOTCH IMPACT TEST ON LONGITUDINAL & TRANSVERSE SPECIMEN, ULTRASONIC AND BEND TEST AS PER PRODUCT STANDARD HT10495 REV-02. N.STD: ASTM A - 240 UNS -41500-TYP415 SIZE: 50TK X 1250 WIDTH X 6000 LONG	50 x 1250 x 6000	6000	15.11.2023
4	<b>W96321501069</b> STAINLESS STEEL PLATES (13% CR - 4% NI) OF SIZE 12TK X 1200 WIDTH X 4200 LONG; AS PER ASTM A - 240 UNS -41500 (TYPE 415) WITH CHARPY V-NOTCH IMPACT TEST ON LONGITUDINAL & TRANSVERSE SPECIMEN, ULTRASONIC AND BEND TEST AS PER PRODUCT STANDARD HT10495 REV-02. N.STD: ASTM A - 240 UNS -41500-TYP415 SIZE: 56TK X 1250 WIDTH X 5500 LONG	56 x 1250 x 5500	9240	15.11.2023

**Remarks-**

1. Delivery period mentioned in enquiry is indicative, bidders to quote their best possible delivery.
2. Plates are required as per above mentioned size however vendor may offer higher length & width and acceptance of the same shall be in BHEL's discretion.
3. Quantity tolerance  $\pm 10\%$  is acceptable.
4. Early delivery is acceptable.
5. **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.

**Action against Bidders / vendor / supplier / contractor in case of default:**

In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.

Suspension of Business Dealings could be in the form of “Hold” or “Banning” a supplier/ contractor or a bidder and shall be as per “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available at BHEL’s website [“https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors”](https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors)

**6. Payment terms shall be as follows:**

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

**7. EMD will be applicable (Amount as mentioned in bid document), 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.

**Note:** Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists / Dealers / Traders etc. for the items offered but not manufactured by themselves.

**8. “A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity’s interests. **The****

**bidder found to have a conflict of interest shall be disqualified.** A bidder may be considered to have a conflict of interest with one or more parties in the bidding process, if”

- a. They have controlling partner (s) in common; **or**
- b. They receive or have received any direct or indirect subsidy/financial state from any of them; **or**
- c. They have the same legal representative/ agent for purposes of this bid; **or**
- d. They have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder; or
- e. Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components / sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; or
- f. In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent / dealer. There can be only one bid from the following:
  1. The principal manufacturer directly or through one Indian agent on his behalf; and
  2. Indian/ foreign agent on behalf of only one principal;

**or**
- g. A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid; **or**
- h. In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidder must proactively declare such sister/ common business/ management units in same/ similar line of business.”

## Pre- Qualification Requirements

Sl. No.	Technical Requirement	Vendor's confirmation (Y/N)															
01	<p><b><u>Past Experience Requirement:</u></b></p> <p>a) Vendor must have supplied stainless-steel plates (13%Cr-4%Ni) as per ASTM A240, UNS 41500 (Type 415) / X3CrNiMo13-4 (material no. 1.4313) of EN10028-7 or higher martensitic stainless-steel grade against at least one purchase order in last seven years on enquiry issue date.</p> <p>In support of above, vendor to submit details of past supplies, preferably in format given below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No.</th> <th style="text-align: center;">Plate Dimension (mm) (Thick. X Width X Length)</th> <th style="text-align: center;">Material Grade &amp; Standard</th> <th style="text-align: center;">Name of customer/Purchase order No/Date of Supply</th> <th style="text-align: center;">Quantity</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Vendor to submit test certificate of plate against any one of the purchase orders listed in table above.</p>	Sl. No.	Plate Dimension (mm) (Thick. X Width X Length)	Material Grade & Standard	Name of customer/Purchase order No/Date of Supply	Quantity	1					2					
Sl. No.	Plate Dimension (mm) (Thick. X Width X Length)	Material Grade & Standard	Name of customer/Purchase order No/Date of Supply	Quantity													
1																	
2																	
02	<p><b><u>Manufacturing &amp; Testing Facility details:</u></b></p> <p>a) Vendor to confirm that they have in-house manufacturing facility to manufacture plates as per enquiry specification and dimension. Details of manufacturing facilities like steel melting, rolling, heat treatment etc. are to be submitted.</p> <p>b) Vendor to furnish in house testing facilities to carry out testing as per the requirements of enquiry specification. In case of outsourcing of any test, vendor to agree to carry out testing at Government / International agency accredited labs only.</p> <p>c) Bureau of Indian Standard (BIS) approved vendors for martensitic stainless-steel plates are exempted from submitting manufacturing &amp; testing facilities details against 2a &amp; 2b above.</p> <p>Vendor to submit valid BIS certificate of the same.</p>																
03	<p><b><u>Technical Requirement:</u></b></p> <p>Vendor to confirm that plates shall be supplied as per enquiry dimensions meeting all the technical requirements specified in BHEL enquiry specification HT10495 and in enquiry material code description of material codes.</p>																
<p><b>Note:</b> In case of trader / stockiest, details of principal manufacturer for point 1 - 3 to be submitted.</p>																	

Sl. No.	Quality Requirement	Vendor's confirmation (Y/N)
01	Testing and certification as per ordering documents and specifications.	

**Signature with stamp**

**Name:**

**Name of Firm:**

**Designation:**

**Date:**

**(Self-Certification for local content)**

In line with Government Public Procurement Order 2017 dated 16.09.2020, we hereby certify that we

.....  
(supplier name) inform that local content is .....% (indicate percentage of local content) and are

**Class- I local supplier** (meeting requirement of)-

**Minimum Local content 50%**

or

**Class- II local supplier** (meeting requirement of)-

**Minimum Local content 20%**

(mark wherever applicable)

defined by Nodal Ministries/ Departments as per above order for the material against Enquiry No.

.....  
Details of location at which local value addition will be made is as follows:

.....  
.....  
.....

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and Signature of Supplier

Tender No. F/F219/23/0844/K1

**(Specification)**

**HT10495 Rev:02**



# PRODUCT STANDARD

## HYDRO TURBINE ENGINEERING

**HT 10495**

Rev. 02

COPYRIGHT & CONFIDENTIAL

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED.  
It must not be used directly or indirectly in any way detrimental to the interest of the company.

Page 1 of 1

### STANDARD SUPPLEMENTARY REQUIREMENTS FOR STEEL PLATES TO ASTM A 240 TYPE S41500 (Eqvt. to X3CrNiMo13-4, steel no. 1.4313 of EN 10028-7)

Requirement	Standard	Remarks
Condition	As per clause 10 and 13.1.2 of ASTM A 480	
Thickness and size	As per PO	
Charpy V-notch impact test on longitudinal specimen at minus (-) 20 <sup>0</sup> C (or at a temperature specified in the PO)	<ul style="list-style-type: none"> <li>• EN 10028-1</li> <li>• EN 10028-7 (Values as specified in Table – 8)</li> </ul>	For all plates of PO
Charpy V-notch impact test on transverse specimen at minus (-) 20 <sup>0</sup> C (or at a temperature specified in the PO)	<ul style="list-style-type: none"> <li>• EN 10028-1</li> <li>• EN 10028-7 (Values as specified in Table – 8)</li> </ul>	Only for plates identified in PO
Dimensions and tolerances	ASTM A 480	
Ultrasonic testing	ASTM A578/ A 578M	Acceptance standard is Level-B unless otherwise stated in PO
Bend test (Longitudinal direction)	ASTM A 480	Only for plates identified in PO
Inspection documents as per results of tests for- <ul style="list-style-type: none"> <li>• Chemical Analysis,</li> <li>• Mechanical Properties,</li> <li>• Heat treatment,</li> <li>• NDT,</li> <li>• Impact testing,</li> <li>• Through thickness tension test,</li> <li>• Bend test</li> </ul>	As per EN 10204 Type 3.2 or relevant standards as applicable	
Microstructure examination for inclusions: The examination of cleanliness must be performed in one plate per lot. It should be conducted after heat treatment. The microstructure must be uniform and free from porosity, excessive segregation and in-homogeneities. Inclusion content as per ASTM E 45/Method A <ul style="list-style-type: none"> <li>- 'Thin series' inclusions : Type A, B, C, D (Max. severity level 2)</li> <li>- 'Heavy series' inclusions : Type A, B, C, D (Max. severity level 1.5)</li> </ul>	As per ASTM E45 – 13	Only for plates identified in PO
Inspection Agency		As per PO

Rev. No.	Date of Rev.	Remarks	Approved		
01	16.02.2008	UT testing acceptance std. modified.	 J.S. Hanspal, AGM (HOD)-HTE		
02	21.04.2017	Completely reviewed.	<b>Prepared</b>  Anuj Raizada Dy. Mgr. – HTE	<b>Checked</b>  A. Mandat AGM-HTE	<b>Date of issue</b> (Rev.00) 04.01.2006
			Saved in server as no. 42009910495		