

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

**Sub: Requirement of 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)	Quantity (Kg)	Delivery
1	<b>W96321301060</b> STEEL PLATE AS PER ASTM A 537 CL-2 AND AS PER PURCHASE SPECIFICATION HT10498 REV 05	130 x 1700 x 3500	18800	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

## 6. 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

## 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****Item- Plates of ASTM A537, Class 2**

Sl. No.	Technical Requirement				Vendor's confirmation (Y/N)	
01	<b><u>Past Experience Requirement:</u></b> Vendor should have experience of manufacture and supply of steel plates of thickness $\geq$ 100mm as per ASTM A537 Class 2 or any other quenched and tempered alloy steel grade. a) In support of above, vendor to submit details of past supplies, preferably in format given below:					
	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					
	b) Vendor to submit test certificates of plates satisfying above specified requirement at 1a.					
02	<b><u>Manufacturing &amp; Testing Facility details:</u></b> 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. 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. c) Bureau of Indian Standard (BIS) approved vendors for plates are exempted from submitting manufacturing & testing facilities details against 2a & 2b above. For this vendor to submit valid BIS certificate of approval for pressure vessel plates of IS:2002 / IS:2041.					
<b>Note:</b> In case of trader / stockiest, details of principal manufacturer for point 1 - 2 to be submitted.						

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

**(Specification)**

**HT10498 Rev:05**



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**REQUIREMENTS FOR STEEL PLATES TO ASTM A 537 CLASS 2**

Table-1		Basic Requirements	
Sl. no.	Requirement	Standard	Remarks
1	Condition	Quenched & Tempered	For all plates as per BHEL enquiry  (Vendor to submit filled in check list-1 along with the offer)
2	Thickness and size	As per BHEL enquiry	
3	Quantity variation	+10% -0 %	
4	Dimensions and tolerances	ASTM A 20/ A 20M	
5	Charpy V-notch impact test on longitudinal specimen (See Fig.-1 of ASTM A 370 reproduced at page-3) For thicknesses up to 100 mm  For thicknesses above 100 mm	ASTM A 20/ A 20M  At temperature specified in Table A2.15 Impact Test at -46°C : 16 J (Min. for 1 specimen), 20 J (Min. average for 3 specimens)	
6	Reduction Ratio	3:1 (Reduction ratios as low as 2:1 are permitted if all the limitations of clause 5.3 of ASTM A 20/ A 20M are met along with through thickness tension test to quality class Z35 as per DIN EN 10164)	
7	Ultrasonic testing	ASTM A578/ A 578M Level B	
8	a) Testing (Chemical, Mechanical & Charpy V-notch ) shall be conducted on all the plates as-rolled / mother plates (b) 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 (Longitudinal direction)</li><li>• Reduction ratio</li></ul>	ASTM A 20  As per applicable relevant standards as given above	

Rev. No.	Date of Rev.	Remarks	Approved	Checked	Date of issue (Rev.00)
02	31.08.2015	Completely reviewed and page-2 added.	J.S.Hanspal, AGM (HOD)-HTE		
03	08.08.2016	Requirement for microstructure examination added.	Harish Kumar Sr.Mgr-HTE	A.Mandal AGM-HTE	04.01.2006
04	05.07.2018	Completely reviewed. Checklist, page 3& 4 added.			
05	25.07.2018	Completely reviewed & page-5 added.	Saved in server as no. 42009910498		



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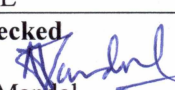
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**REQUIREMENTS FOR STEEL PLATES TO ASTM A 537 CLASS 2**

**Table-2 Supplementary Requirements**

1	Charpy V-notch impact test on transverse specimen (See Fig.-1 of ASTM A 370 reproduced at page-3) For thicknesses up to 100 mm  For thicknesses above 100 mm	ASTM A 20/ A 20M Temperature of testing shall be 10°C above the minimum temperature specified in Table A2.15 for longitudinal tests  Impact Test at -36°C : 16 J (Min. for 1 specimen), 20 J (Min. average for 3 specimens)	Only for plates identified in BHEL enquiry  (Vendor to submit filled in check list-2 along with the offer)
2	Through thickness tension testing to Quality class Z35 ( Test applicable for plate thickness 25mm and above)	DIN EN 10164	
3	Bend test (Longitudinal direction)	ASTM A 20	
4	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 - 'Thin series' inclusions : Type A, B, C, D (Max. severity level 2) - 'Heavy series' inclusions : Type A, B, C, D (Max. severity level 1.5)	As per ASTM E45 – 13	
5	a) Testing shall be conducted on all the individual plates as-rolled / mother plates  (b) Inspection documents as per results of tests for-  • Impact testing (Transverse direction) • Through thickness tension test • Bend test (Longitudinal direction) • Microstructure examination report	ASTM A 20  As per applicable relevant standards as given above	

Rev. No.	Date of Rev.	Remarks	Approved		
02	31.08.2015	Completely reviewed and page-2 added.	 J.S. Hanspal, AGM (HOD)-HTE		
03	08.08.2016	Requirement for microstructure examination added.	<b>Prepared</b> Harish Kumar Sr.Mgr-HTE	<b>Checked</b>  A. Mandal AGM-HTE	<b>Date of issue (Rev.00)</b> 04.01.2006
04	05.07.2018	Completely reviewed. Checklist, page 3 & 4 added.			
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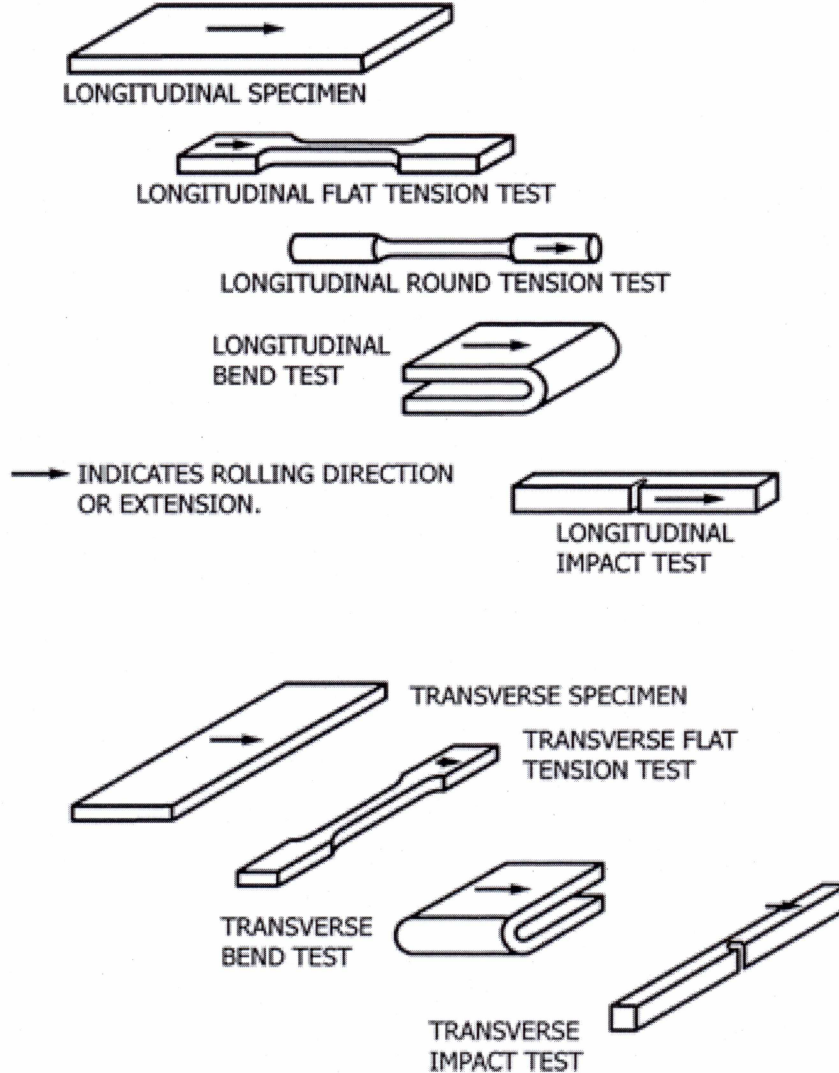
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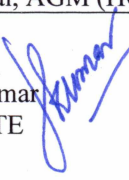
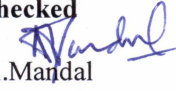
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**REQUIREMENTS FOR STEEL PLATES TO ASTM A 537 CLASS 2**



**Relation of test coupons and test specimens to rolling direction of steel plates  
(Fig.-1 of ASTM A 370 reproduced above)**

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02	31.08.2015	Completely reviewed and page-2 added.	<div style="text-align: center;">   <b>J.S.Hanspal, AGM (HOD)-HTE</b> </div>		
03	08.08.2016	Requirement for microstructure examination added.			
04	05.07.2018	Completely reviewed. Checklist, page 3& 4 added.	<div style="text-align: center;">   <b>Harish Kumar Sr.Mgr-HTE</b> </div>	<div style="text-align: center;">   <b>Checked</b>  <b>A.Mandal</b>  <b>AGM-HTE</b> </div>	<div style="text-align: center;"> <b>Date of issue</b>  <b>(Rev.00)</b>  <b>04.01.2006</b> </div>
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**REQUIREMENTS FOR STEEL PLATES TO ASTM A 537 CLASS 2**

**CHECK LISTS**

(To be filled in by the vendor and submitted along with the offer)

**Check List - 1**

Sl. No.	Description	Tick whichever applicable
1	For all plates, condition of supply as per sl. no.1 of Table-1	Yes / No
2	For all plates, thickness & size as per sl. no. 2 of Table-1	Yes / No
3	For all plates, quantity variation as per sl.no.3 of Table-1	Yes / No
4	For all plates, dimensions and tolerances as per sl. no. 4 of Table-1	Yes / No
5	For all plates, charpy V-notch impact test on longitudinal direction as per sl. no. 5 of Table-1	Yes / No
6	For all plates, reduction ratio as per sl. no. 6 of Table-1	Yes / No
7	For all plates, ultrasonic testing as per sl. no. 7 of Table-1	Yes / No
8	For all plates, testing & inspection documents as per sl. no.8 of Table-1	Yes / No
9	Deviations (if any) to be submitted in separate sheet otherwise it is considered that vendor shall comply to Table-1 of HT 10498 in all aspects	Yes / No

Name/stamp of vendor

Name and authorized signature

Date: \_\_\_\_\_

Enquiry No \_\_\_\_\_

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**REQUIREMENTS FOR STEEL PLATES TO ASTM A 537 CLASS 2**

**Check List - 2**

**(To be filled in by the vendor and submitted along with the offer)**

Sl. No.	Description	Applicable for BHEL enquiry / item no.	Tick whichever applicable
1	For plates identified in BHEL enquiry, charpy V-notch impact test in transverse direction as per sl. no. 1 of Table-2		Yes / No
2	For plates identified in BHEL enquiry, through thickness test as per sl. no. 2 Table-2		Yes / No
3	For plates identified in BHEL enquiry, bend test as per sl. no. 3 Table-2		Yes / No
4	For plates identified in BHEL enquiry, microstructure examination as per sl. no.4 Table-2		Yes / No
5	For plates identified in BHEL enquiry, testing & inspection documents as per sl. no.5 Table-2		Yes / No
6	Deviations (if any) to be submitted in separate sheet otherwise it is considered that vendor shall comply to Table-2 of HT 10498 in all aspects		Yes / No

Name/stamp of vendor

Name and authorized signature

Date: \_\_\_\_\_

Enquiry No \_\_\_\_\_

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