

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

**Sub: Requirement of Alloy Steel Plates Grade 16MO3**

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 (TxWxL,mm)	Total Qty (Kg)	Lot Qty (Kg)	Delivery Requirement	Delivery Period (from PO date)
Alloy Steel Plates of Grade 16MO3- <b>Specification-</b> HW10570 Rev 03	HW1051870054	15 x 1500 x 5000	3550	3550	30/09/2026	90
	HW1051870070	25 x 2200 x 8000	52000	Lot 1- 24200	30/09/2026	90
				Lot 2- 27800	30/04/2027	300
	HW1051870127	60 x (1000-2500) x 3200 or multiple of length	9706	9706	30/09/2026	90
HW1051870160	90 x 2000 x 6300-02 Nos, and 90 x 2000 x 3000-1 No	22200	22200	30/09/2026	90	

**Remarks-**

1. Delivery period mentioned in enquiry is indicative, bidders to quote their best possible delivery.
2. **Plate Sizes: i) 15x1500x5000 mm,  
ii) 25 x2200 x8000 mm,  
iii) 60 x (1000-2500) x 3200mm or multiple of length.  
iv) 90 x 2000 x 6300mm- 02 Nos. and 90 x 2000 x 3000mm- 1 No.**
3. **Quantity tolerance ±5% is acceptable.**
4. **Breach of Contract:**

In case of breach of contract, wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is at least 10% of the contract value, the same be encashed. In case the value of the security instruments available is less than 10% of the contract value, the balance amount be recovered from other financial remedies (i.e. available bills of the contractor, retention amount, etc. with BHEL) or legal remedies be pursued. The balance scope shall be got done independently without Risk & Cost of the failed supplier/ contractor. Further, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract. Accordingly, recovery of an amount equivalent to 10% of the contract value shall be made in case of breach of contract.

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

The payment shall be made within no. of days as defined in the below table from appointed day

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

**Appointed day means**

- The day of material entry in HEEP (i.e. CISF Stamp date), subject to submission of non-discrepant documents by vendor as per Purchase Order.
- Or
- Where there is any objection regarding acceptance of goods, the same shall be informed to supplier within fifteen days from the day of the delivery of good. Appointed day will be the day on which such objection is removed by the supplier.
- For BOIs, the appointed day means the date of receipt of material at respective project Site (i.e. MRC date).

Payment shall be made within 45/ 60/ 90 days (as applicable for MSE, Medium and Non-MSME bidders respectively) from the material entry date in BHEL, subject to submission of non-discrepant documents by the vendor, uploading of all documents on BHEL's SUVIDHA portal at the time of dispatch, and the acceptance of material by BHEL after receipt.

This is in supersession of 10 days' time as provided in Clause 12 of GeM GTC and also 45 days from CRAC as provided in the standard format of GeM Bid under Payment Timelines.

**Note:** Benefits of MSE (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.

6. Vendor should raise inspection call for BHEL / TPI inspection at least 4 days in advance to the planned date of inspection. If customer inspection is envisaged at vendor's works, vendor should give inspection call at least 7 days in advance to the planned date of inspection.
7. For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local Supplier/ Non-local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 19.07.2024 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.
8. Test certificate and Guarantee certificate are required.

9. Rest terms and conditions shall be as per latest GeM GTC/ Buyer added bid specific ATC.
10. The bids received from same IP address shall be outrightly rejected and shall not be considered for further evaluation.
11. If a re-visit of BHEL appointed TPIA is required at vendor's works due to:
- (a) Complete material not being offered during inspection (whilst physical visit of Inspection Engineer at Supplier's work) with respect to offered quantity mentioned in raised inspection call.
- (b) Lapses on account of supplier has led to rejection of offered material (as per approved QAP/Technical specification/other pertinent requirement while carrying out inspection)
- Additional visit charges to be paid by BHEL to TPIAs shall be deducted from supplier's bills as penalty.
12. No deviation Certificate to be submitted as attached. Any deviation w.r.t. the tender (technical or commercial) must be explicitly mentioned alongwith the offer.
13. ***" For goods / works / services on Indian Suppliers / Contractors: Irrespective of the value of the invoice amount, the supplier/ contractor should necessarily upload the invoice details on BHEL SUVIDHA portal at <https://suvidha.bhel.in/suvidha/>, prior to despatch/raising invoice. All documents as per contract checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and upto Rs five lakhs in case the requirement for digitally signed invoice is not explicitly mentioned in the contract checklist.***

*The Invoice will not be accepted in absence of the above. "*

**14. Declaration by bidder regarding Conflict of interest**

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- i) If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- ii) The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- iii) Procurement of goods directly from the manufacturers/ suppliers shall be preferred. However, if the OEM/ Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- iv) A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the

Tender No. F/F219/25/3350/K1

participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

**Signature with stamp**

**Name of Authorized Person:**

**Designation:**

**Name of Firm:**

**Date:**

## Technical Pre- Qualification Requirements

PQR Clause	Requirements	Vendor response										
1	<p><b>Past Experience Requirement:</b> Vendor should have supplied alloy steel plates in material grade 16Mo3 / ASTM A204 Grade B <b>or</b> higher Cr-Mo / Cr-Mo-V etc. against at least one purchase order in last seven years on enquiry issue date. In support of above, vendor to submit details of at least one past supply 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</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> </tbody> </table> <p>Vendor to submit copy of purchase order and its correlated material test certificates with dispatch documents of above-mentioned purchase order.</p>	Sl. No.	Plate Dimension (mm) (Thick. X Width X Length)	Material Grade	Name of customer/Purchase order No/Date of Supply	Quantity	1					
Sl. No.	Plate Dimension (mm) (Thick. X Width X Length)	Material Grade	Name of customer/Purchase order No/Date of Supply	Quantity								
1												
2	<p><b>Manufacturing &amp; Testing Facility details:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;">a</td> <td>Vendor to confirm that have manufacturing facilities like steel melting, rolling and heat treatment to manufacture plates of enquiry material grade and dimensions. Details of facility to be submitted.</td> </tr> <tr> <td style="text-align: center;">b</td> <td>Vendor to confirm that they have all testing facility (in-house / outsourced) to carry out testing as per enquiry drawing and specification. In case of outsourcing of any test, vendor to agree for testing at NABL accredited labs only.</td> </tr> <tr> <td style="text-align: center;">c</td> <td>Bureau of Indian Standard (BIS) approved vendors are exempted from submitting manufacturing &amp; testing facilities details against 2a &amp; 2b above. For this vendor to submit valid BIS certificate of their approval for plates of IS:2002 / IS:2041.</td> </tr> </tbody> </table>	a	Vendor to confirm that have manufacturing facilities like steel melting, rolling and heat treatment to manufacture plates of enquiry material grade and dimensions. Details of facility to be submitted.	b	Vendor to confirm that they have all testing facility (in-house / outsourced) to carry out testing as per enquiry drawing and specification. In case of outsourcing of any test, vendor to agree for testing at NABL accredited labs only.	c	Bureau of Indian Standard (BIS) approved vendors are exempted from submitting manufacturing & testing facilities details against 2a & 2b above. For this vendor to submit valid BIS certificate of their approval for plates of IS:2002 / IS:2041.					
a	Vendor to confirm that have manufacturing facilities like steel melting, rolling and heat treatment to manufacture plates of enquiry material grade and dimensions. Details of facility to be submitted.											
b	Vendor to confirm that they have all testing facility (in-house / outsourced) to carry out testing as per enquiry drawing and specification. In case of outsourcing of any test, vendor to agree for testing at NABL accredited labs only.											
c	Bureau of Indian Standard (BIS) approved vendors are exempted from submitting manufacturing & testing facilities details against 2a & 2b above. For this vendor to submit valid BIS certificate of their approval for plates of IS:2002 / IS:2041.											

**Note:** In case of trader / stockiest, details of principal manufacturer for point 1 & 2 are to be submitted.

Sl. No.	Quality Requirement	Vendor's confirmation (Y/N)
01	PRE-DISPATCH INSPECTION BY BHEL AS PER BHEL APPROVED QUALITY PLAN (QA/PMD/002 REV 01). <b>(VENDOR TO ENDORSE THE ATTACHED QUALITY PLAN WITH THEIR SIGN &amp; STAMP.)</b>	

**Signature with stamp**

**Name:**

**Name of Firm:**

**Designation:**

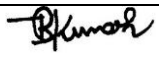
**Date:**

Tender No. F/F219/25/3350/K1

**QUALITY PLAN  
(QA/PMD/002 REV 01)**

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM	AS PER PO		QP NO.	QA/PMD/002						
					REV	01 DATED 29.09.2025						
		DRG. NO.	AS PER PO									
		SPEC.	AS PER PO									
	REV	AS PER PO				Page 1 of 2						
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10		11

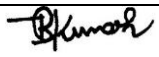
1. IN CASE OF PROCUREMENT OF PLATES, FLATS, ROUNDS (CS), BARS (CS), STRIPS ETC IS PROCURED DIRECTLY FROM OEM.												
1A	RECEIVING MATERIAL INSPECTION	IDENTIFICATION & VERIFICATION OF MILL TEST CERTIFICATES	CRITICAL	VERIFICATION OF MILL TC	100%	BHEL SPEC	BHEL SPEC	MILL TC / IR	√	P	V	1. CO-RELATED ORIGINAL (SEALED AND SIGNED BY OEM) OR CO-RELATED COMPUTER-GENERATED MATERIAL TEST CERTIFICATE (MTC), ORIGINATED FROM OEM 2. EVERY PLATES, , FLATS, ROUNDS (CS), BARS (CS), STRIPS ETC MUST HAVE IDENTIFICATION MARKING OF STEEL MANUFACTURER AS PER APPLICABLE SPECIFICATION/ STANDARD. 3) CO-RELATION WITH TC ALONG WITH CORRELATED INVOICE TO BE PROVIDED WITH SUPPLY OF THE ITEMS. 4) IF MENTIONED IN PO/ BHEL ENGG PQR, MANUFACTURER MUST BE BIS APPROVED VENDOR FOR APPLICABLE SIZE AND GRADE. 5) MANUFACTURING DATE ON THE TEST CERTIFICATE (TC) SHOULD NOT BE OLDER THAN ONE YEAR FROM THE DATE OF THE BHEL PURCHASE ORDER (PO) PLACEMENT

		LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' UNDER COULMN "D" SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR/VENDOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	
MANUFACTURER/SUBCONTRACTOR	IB Kumar Mgr, QAX, BHEL			APPROVED BY

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM	AS PER PO		QP NO.	QA/PMD/002						
				REV	01 DATED 29.09.2025							
		DRG. NO.	AS PER PO									
		SPEC.	AS PER PO									
		REV	AS PER PO		Page 2 of 2							
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10		11

2. IN CASE OF PROCUREMENT OF PLATES, FLATS & STRIPS IS PROCURED FROM TRADER/STOCKIST.												
2A	RECEIVING MATERIAL INSPECTION	IDENTIFICATION & VERIFICATION OF MILL TEST CERTIFICATES	CRITICAL	VERIFICATION OF MILL TC	100%	BHEL SPEC	BHEL SPEC	MILL TC / IR	√	P	V	1. CO-RELATED ORIGINAL (SEALED AND SIGNED BY OEM) OR CO-RELATED COMPUTER-GENERATED MATERIAL TEST CERTIFICATE (MTC), ORIGINATED FROM OEM 2. MILL TC (AS PER BHEL ORDERING DOCUMENTS) SHALL BE FROM MANUFACTURER IDENTIFIED IN PO 3. EVERY PLATES, , FLATS, ROUNDS (CS), BARs (CS), STRIPs ETC MUST HAVE IDENTIFICATION MARKING OF STEEL MANUFACTURER AS PER APPLICABLE SPECIFICATION/ STANDARD. 4) CO-RELATION WITH TC ALONG WITH CORRELATED INVOICES (FROM STEEL MANUFACTURER TO BIDDER) TO BE PROVIDED WITH SUPPLY OF THE ITEMS. 5) IF MENTIONED IN PO/ BHEL ENGG PQR, MANUFACTURER MUST BE BIS APPROVED VENDOR FOR APPLICABLE SIZE AND GRADE. 6) MANUFACTURING DATE ON THE TEST CERTIFICATE (TC) SHOULD NOT BE OLDER THAN ONE YEAR FROM THE DATE OF THE BHEL PURCHASE ORDER (PO) PLACEMENT

NOTE: 1) BHEL TO REVIEW ALL THE REMAINING TCs AS PER ORDERING DRAWING / SPEC / DOCUMENTS (AS APPLICABLE).

		LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' UNDER COULMN "D" SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR/VENDOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	
MANUFACTURER/SUBCONTRACTOR	IB Kumar Mgr, QAX, BHEL			APPROVED BY

**(Specification)**

**HW10570 Rev 03**

Rev. सं. संकेत SIGN & DATE		संस्थान क्रय विनिर्देश (हीप : हरिद्वार) <b>PLANT PURCHASE SPECIFICATION</b> (HEEP: HARIDWAR)	HW10570 पृष्ठ का Page 1 of 3
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SUPERSEDES INVENTORY NO.	TLV 9170 Part 04, 07/14	<b>HEAT RESISTANT PLATE</b> <b>STEEL GRADE 16Mo3</b>
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**1.0 GENERAL:**

This material specification governs the quality of heat resistant plate of steel grade 16Mo3, material no 1.5415 as per EN10028-2.  
 Plates as per ASTM A204 Gr B or SB480M+N as per JIS G3103 are also acceptable for plates upto 150mm thickness subject to meeting the following additional requirements of this specification.

**2.0 APPLICATION:**

The plate shall be used for manufacture of turbine and generator components.

**3.0 CONDITION OF DELIVERY:**

The plate shall be supplied in normalized condition.

**4.0 DIMENSION AND TOLERANCES:**

The plate shall be supplied to the dimensions as per purchase order and tolerances as per EN 10029, class C

**5.0 HEAT-TREATMENT:**

Plates shall be normalized at 890 - 950°C.

**6.0 PROPERTIES:**

Chemical composition and mechanical properties of plate shall be meet any one of the following three material grade (a/b/c) given below:

**(a) 16Mo3, material no 1.5415, EN10028 - 2**

C	Si	Mn	Mo	S	P	Cr
0.12 - 0.20	≤ 0.35	0.40 - 0.90	0.25 - 0.35	≤ 0.010	≤ 0.025	≤ 0.30
Cu	N	Ni				
≤ 0.30	≤ 0.012	≤ 0.30				

The tensile and impact test shall be tested on specimen taken perpendicular to rolling direction and following properties shall be achieved at room temperature.

Thickness(t) (mm)	Yield strength N/mm <sup>2</sup>	Tensile strength N/mm <sup>2</sup>	Elongation L=5d %	Impact Energy J *(20°C)
t ≤ 16	≥ 275	440 - 590	≥ 22	≥ 31
16 < t ≤ 40	≥ 270	440 - 590		
40 < t ≤ 60	≥ 260	440 - 590		
60 < t ≤ 100	≥ 240	430 - 580		
100 < t ≤ 150	≥ 220	420 - 570		
150 < t ≤ 250	≥ 210	410 - 570		

\* Average of 3 Charpy V notch specimens, Minimum value ≥ 70% specified value.

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संस्थापक एवं गोपनीय  
 इस दस्तावेज में दी गई सूचना भारत भारती एलेक्ट्रिकल्स लिमिटेड की संपत्ति है। इसका प्रयोग एवं प्रसारण केवल केवल के लिए ही किया जा सकता है। अन्य किसी भी उद्देश्य के लिए इसका उपयोग नहीं किया जा सकता।

Rev. सं. संकेत SIGN & DATE	27/11/18
INVENTORY NO.	P-3726

TSX	D. GANGULI	नाम NAME	दिनांक एवं हस्ताक्षर SIGNATURE & DATE
PSC	G.KRISHNAN	अनुवादक TRANSLATED BY	
QAX	U. K. PANDA	निर्माणाधीन WORKED BY	SUBODH RANA
STE	P. K. BANSAL	जांचकर्ता CHECKED BY	ASHISH RANJAN
सहमत विभाग AGREED DEPT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY
			GOPAL KRISHNAN
REV.NO. 03		स्वीकृति संस्थान मानकीकरण समिति APPROVED : PLANT STANDARDIZATION COMMITTEE	
DL 21.04.18		Gr. NO. 2.60	
CHANGE ADVICE NO. TSX(MTE)-18-25		निर्माण PREPARED : MTE	जारी ISSUED : TSX
		दिनांक DATE : 02.12.91	



संस्थान क्रय विनिर्देश (हीप : हरिद्वार)

HW10570

**PLANT PURCHASE SPECIFICATION  
(HEEP: HARIDWAR)**

पृष्ठ का  
Page 2 of 3

संस्था के द्वारा  
SIGN & DATE

SUPERSEDES  
INVENTORY NO.

संस्था की संस्था को  
अतिरिक्त करता है

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स्वामिकार एवं गोपनीय  
इस प्रतीक में की गई सूचना भारत हीवी इलेक्ट्रिकल्स लिमिटेड की संपत्ति है इसका प्रयोग एवं आकांक्षक रूप से किसी भी तरह से प्रयोग, जो कि संस्था के हित में सुविधाकारक हो न किया जाय।

संस्था के द्वारा  
SIGN & DATE

**(b) ASTM A 204, Gr B: For thickness upto 150 mm (with additional requirements)**

C	Si	Mn	Mo	S	P	Cr
≤ 0.20 / ≤ 0.23*	0.15- 0.40	0.40 - 0.90	0.45 - 0.60	≤ 0.015	≤ 0.025	≤ 0.30
Cu	N	Ni				
≤ 0.40	≤ 0.012	≤ 0.40				

\*C: ≤ 0.23 for plates thickness > 25mm;

The tensile and impact test shall be tested on specimen taken perpendicular to rolling direction and following properties shall be achieved at room temperature.

Thickness(t) (mm)	Yield strength N/mm <sup>2</sup>	Tensile strength N/mm <sup>2</sup>	Elongation L=5d %	Impact Energy J *(20°C)
t ≤ 16	≥ 275	440 – 620	≥ 21	≥ 31
16 < t ≤ 40	≥ 270			
40 < t ≤ 60	≥ 260	430 - 620	≥ 21	≥ 31
60 < t ≤ 100	≥ 240			
100 < t ≤ 150	≥ 220	420 - 620		

\* Average of 3 Charpy V notch specimens, Minimum value ≥ 70% specified value.

**(c) SB480M+N as per JIS G3103, For thickness upto 150 mm (with additional requirements)**

C	Si	Mn	Mo	S	P	Cr
≤ 0.20 / ≤ 0.23*	0.15- 0.40	0.40 - 0.90	0.45 - 0.60	≤ 0.015	≤ 0.020	≤ 0.30
Cu	N	Ni				
≤ 0.30	≤ 0.012	≤ 0.30				

\*C: ≤ 0.23 for plates thickness > 25mm

The tensile and impact test shall be tested on specimen taken perpendicular to rolling direction and following properties shall be achieved at room temperature.

Thickness(t) (mm)	Yield strength N/mm <sup>2</sup>	Tensile strength N/mm <sup>2</sup>	Elongation L=5d %	Impact Energy J *(20°C)
t ≤ 16	≥ 275	440 – 620	≥ 21	≥ 31
16 < t ≤ 40	≥ 270	440 – 620		
40 < t ≤ 60	≥ 260	440 – 620	≥ 21	≥ 31
60 < t ≤ 100	≥ 240	430 – 620		
100 < t ≤ 150	≥ 220	420 - 620		

\* Average of 3 Charpy V notch specimens, Minimum value ≥ 70% specified value.

Aluminium content shall be determined and reported in inspection reports for all the above three grades. Elements not listed in table above shall not be intentionally added to the steel without the agreement of the purchase except for finishing the cast.

संस्था की संस्था  
INVENTORY NO.

REV. NO.  
03

निर्माणकर्ता  
WORKED BY

S.RANA

19.04.2018

जांचकर्ता  
CHECKED BY

A. RANJAN

19.04.2018



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

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH  
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 04<sup>TH</sup>  
JUNE, 2020 AND SUBSEQUENT ORDER(S)**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

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To,

(BHEL HEEP Haridwar)

Dear Sir,

**Sub:** Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04<sup>th</sup> June, 2020 and subsequent order(s).

**Ref:** 1) GeM Bid Specification No: .....  
2) All other pertinent issues till date

We hereby certify that the items/works/services offered by..... *(specify the name of the organization here)* has a local content of \_\_\_\_\_ % and this meets the local content requirement for **'Class-I local supplier' / 'Class II local supplier'** \*\* as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

1. \_\_\_\_\_ 2. \_\_\_\_\_  
3. \_\_\_\_\_ 4. \_\_\_\_\_

...

Thanking you,  
Yours faithfully,

**(Signature, Date & Seal of  
Authorized Signatory of the Bidder)**

\*\* - *Strike out whichever is not applicable.*

**Note:**

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practising cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

**Certificate of No Deviation**

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**CERTIFICATE OF NO DEVIATION**

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

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To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Subject: **No Deviation Certificate**

Ref: 1) GeM Bid No: .....,  
2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred GeM Bid.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

**(Signature, date & seal of authorized  
representative of the bidder)**

Date:  
Place:

Tender No. F/F219/25/3350/K1

**DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144  
(xi) OF GFR 2017**

**DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017**

(To be typed and submitted in the Letter Head of the Entity/ Firm providing certificate as applicable)

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To,

(BHEL HEEP Haridwar)

Dear Sir,

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017

Ref: 1) GeM Bid No: .....,

2) All other pertinent issues till date

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that \_\_\_\_\_ (SPECIFY THE NAME OF THE ORGANIZATION HERE), is not from such a country/ has been registered with the Competent Authority (attach valid registration by the Competent Authority, i.e., the Registration Committee constituted by the Dept. for Promotion of Industry and Internal Trade (DPIIT)).

I hereby certify that we fulfil all requirements in this regard and is eligible to be considered.

Thanking you,

Yours faithfully,

(Signature, Date & Seal of  
Authorized Signatory of the Bidder)

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.