



**BHARAT HEAVY ELECTRICALS LIMITED**  
**HEEP HARIDWAR INDIA-PIN 249403**  
**FAX NO: 0091 1334 226462**  
**PHONE NO: 0091 1334 284142**

**BHEL ENQUIRY No: T/T3990/20/0602K1**

M/s.....

**Sub: BHEL-HEEP/OPEN-TENDER (Turbine) / 2021**

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 and gas turbines, turbo generators and so on.

Sealed tenders with the **Tender No.** and **opening date** clearly super scribed on the cover are invited from the manufacturers (registered as well as unregistered) for the items **BAR MATERIAL FOR TURBINE BLADES NICR20TIAL (NIMONIC 80 A) Annexure- (Item Details): -**

**SPECIAL INSTRUCTIONS OF ENQUIRY-**

1. Late delivery Penalty for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to maximum of 10% of the value of respective delayed supplies. If vendor do not confirm late delivery penalty clause in their offer, then it shall be presumed to be acceptable. No further clarification shall be asked in this regard after opening of techno-commercial bid part-1.
2. Foreign vendors to either quote third party inspection charges (LRS/BV/TUV) separately in their offer or vendor to mention that third party inspection charges are included in the quoted prices of the offer. If vendor do not quote third party inspection charges or do not mention that third party inspection charges are included in quoted prices, then it shall be presumed that third party inspection charges are included in the quoted prices of the offer. No further clarification shall be asked in this regard after opening of techno-commercial bid part-1.
3. Vendor to confirm, endorse and return back enclosed BHEL QP "QA/CF/QP/358, rev02" (**Annexure-QP**).
4. Foreign Vendors to confirm Inspection shall be done by third party inspection agency (LRS/TUV/BV) as per finally NTPC approved Quality Plan.
5. Indian Vendors to confirm Inspection shall be done by BHEL/BHEL nominated inspection agency BVIL & NTPC as per finally NTPC approved Quality Plan.
6. Price bids shall be opened for only those bidders who qualifies PQR and whose techno-commercial bid is acceptable to BHEL.
7. Credentials as per **Annexure- Sub-vendor questionnaire format** is to be submitted by bidders (who are not customer approved) along with the offer for customer approval. **Offers will not be considered if customer does not approve any bidder.** Further, Bidder shall confirm any additional customer specific bidder approval requirements as per customer approval letter (if any) without any financial implication else their offer shall not be considered.
8. Inspection by BHEL customer may also be done at vendor's work as per customer approval letter.

9. End of bars should be squared and sawed off properly.
10. There should be proper stamping of cross section, Heat number, material grade, vendor code/vendor name on each bar at the pitch of one meter.
11. Quantity tolerance should be (+/-10)%.
12. All vendors to provide point wise reply/confirmation along with relevant supporting documents to each and every point of **Annexure (Pre-Qualification Requirement/PQR)** for all enquiry items. Non-compliance of these may lead to rejection of offer as these are essential condition for participating in tender enquiry.
13. Vendor to offer best delivery schedule. Delivery is not sacrosanct.
14. The evaluation currency for this tender shall be INR.
15. BHEL Standard payment term is "Payment after receipt and acceptance of material/item at HEEP, BHEL-store" as per **General Instruction and Standard Terms & Condition (GISTC), Version December-2020, Rev: 05**.
16. The quotation shall be valid for a **minimum period of 120 days**, effective from the date of tender opening.
17. Vendor to ensure that their quoted rates are not more than those quoted for any other customer including other BHEL units.
18. The total quantity may undergo change at the time of ordering.
19. Test certificate and Guarantee certificate to be provided by vendor as per specification.
20. Vendor Contract clause regarding GST ITC and provision for E-Invoices w.e.f. 01.10.2020 for Indian Vendors:
  - (i) W.e.f. 01.04.2021, vendor to ensure submission of E-Invoice who is having turnover of more than Rs. 50 Crs. in any preceding financial year from 2017-18 onwards.
  - (ii) It has been specified by the Govt. that it is mandatory to mention a valid unique invoice Reference No. (IRN) and QR code as generated from Govt. portal on a Tax Invoice. Based on such information, GST ITC as claimed by BHEL in GST Returns shall be matched with the corresponding details uploaded by supplier in E-Invoicing System.
  - (iii) In case the vendor /contractor delays or fails to provide all the documents as per the Purchase order / Work Order at the time of submitting Tax invoice to BHEL, any subsequent financial loss to BHEL on account of vendor/contractor shall be to vendor's / contractor's account. BHEL has further right to take necessary steps to protect its interest at the time of release of payment. This further requires inclusion of IRN and QR code on tax invoice as announced by Govt. of India w.e.f. 01.10.2020.
21. 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 04.06.2020 issued by DPIIT. In case of subsequent orders issued by 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.
22. All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall **not** be applicable for this tender enquiry (Order copy is available at <https://doe.gov.in/procurement-policy-divisions>). This item can be procured from the vendors from countries which shares a land border with India, and in such

cases, the bidders from countries which shares a land border with India, will **not** be required to be registered with the Competent Authority i.e. registration committee constituted by DPIIT. Therefore, GISTC clause “RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017” is not applicable for this case.

23. Procurement directly from Manufacturers/ suppliers shall be preferred. However, in case of submission of offer through agents including dealers/ traders/ distributors/ stockiest/ Channel partners etc. on behalf of manufacturer or the manufacturer themselves insists for making suppliers through their such agents only, following guidelines will be followed.
- 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, the bid received from agent shall be ignored.
  - The agent shall not allow to represent more than one manufacturer / supplier in the same tender.
  - Agent should submit the authorization letter from the manufacturer clearly indicating details like Name, e-mail and address of manufacturer and relationship with agent and its validity to be submitted with bid. The authorization letter should be tender specific.
  - In case order is to be placed and executed by agent following aspects are to be ensured:
    - Manufacturer of the agent should meet the PQR as defined in tender.
    - Agent should have annual turnover of at least equal to Rs. 175 Lacs during one financial year and the net worth of the agent should be positive.
    - Manufacturer and bidder / agent should jointly confirm Guarantee for the quality of product and timely delivery as stipulated in the NIT.
24. The remaining terms shall be as per **GENERAL INSTRUCTION AND STANDARD TERMS & CONDITION (GISTC), VERSION December-2020, Rev: 05**. Please submit your offer only for the above requirement subject to our **GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (GISTC: Version December-2020, Rev: 05)**. Please visit our site [www.hwr.bhel.com](http://www.hwr.bhel.com) for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries. All the bidders/vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for Registered Vendors.

The tender documents can be downloaded from our web site [www.bhel.com](http://www.bhel.com) or [www.hwr.bhel.com](http://www.hwr.bhel.com). After downloading the tender documents from web site, while submitting the tender as detailed in “Instruction to Bidders”, intending vendors must submit Tender Fee of Rs. 2,000/- (Rupees two thousand only) in the form of Pay Order /e-payment/ Demand Draft (drawn in favour of ‘BHEL HARIDWAR’) only. It may be noted that if hard copy of any tender documents are required, then the same may be collected against copy of Pay Order /e-payment/ Demand Draft of requisite tender fee (while original to be submitted with Part-I). **However, if no hard copy of any tender documents are required from BHEL, no tender fee is required to be submitted.**

Vendors must also remit the requisite **EMD (Earnest Money Deposit) of Rs. 2,00,000/- (Rupees Two lakh only)** in the form of Pay Order/ E-payment / Demand draft (drawn in favor of ‘BHEL HARIDWAR’). **If EMD is not submitted along with the offer (Part-I) then the offer shall be out rightly rejected.**

**Following HEEP BHEL Hardwar PMD SL053 approved vendors are exempted from submission of EMD whose vendor codes are mentioned below: -**

ITEM CODE	PMD VENDOR CODE
HW1270384023 HW1270384031 HW1270384015 HW1270384104 HW1270384112 HW1270384120	M70076, M72518

“As per the OM No. F.No. 1(2)(1)/2016-MA dtd. 09.02.2017 issued from the Office of Development Commissioner (Micro, Small & Medium Enterprises), “Traders and agents should not be allowed to avail the benefits extended under the PP Policy.”

In view of this, it is clarified that 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.”

For E-Payment, the RTGS details are mentioned as below:

Bank Details	SWIFT Details of bank
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA PIN CODE : 249403	SWIFT NO: SBININBB225 CC ACCOUNT NO :10667995458 IFSC CODE : SBIN0000586

**As per notification reference no. NSIC/HO/GP/15(4)/2013-14 dated 07.07.2013 Micro & Small Enterprises (MSEs) are not required to submit Tender fees. A Valid MSE certificate such as Udyam Certificate/NSIC/EM (Part-II) as per GISTC shall be submitted in support of Micro & Small Enterprises (MSEs).**

Central / State – PSUs / Government departments are exempted from submission of EMD subject to approval by BHEL management.

Please submit separate drafts for EMD and tender fee in an envelope super-scribed with bold letters “EMD & Tender Fee” to be submitted with Part-I.

Micro & Small Enterprises (MSEs) are exempted from submission of EMD and/or Tender fees. Documents as detailed in **GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (GISTC), Version December-2020, Rev: 05** hoisted on our website [www.bhelhwr.co.in](http://www.bhelhwr.co.in) are to be submitted for availing exemption from submission of Tender Fees & EMDs.

BHEL will forfeit the EMD if, the successful bidder / vendor refuses to honor the order after award of the same on him and / or withdraws his bid and / or unilaterally changes the offer and / or any of its terms & conditions within the validity period.

**Tenders will be received in Tender Box kept in Tender Room and should be addressed to:**

**THE HEAD OF MATERIAL MANAGEMENT,  
Heavy Electrical Equipment Plant,  
Bharat Heavy Electricals Limited,  
HARIDWAR-249403 (Uttarakhand), INDIA.**

**The date for opening of tender shall be 21.06.21.** Tenders will be received up to 1.45 P.M. on **21.06.21** and opened on the same day at 2.00 P.M. in the Tender Room. **Please note that tender received after due date & time (1.45PM on 21.06.21) will not be REPEAT will not be opened.** BHEL will not be responsible for any type of postal / courier delay.

Bids shall be opened at 2 PM on the due date in the presence of authorized representative of the bidders who may like to be present. The authorized representative should bring authority letter from their parent company (Manufacturer) for the specific tender no. attending the bid opening.

Amendments/Corrigendum, if any, will be hosted only on the websites mentioned above. Other terms and conditions will be as per tender documents.

Vendors operating from BHEL quarters, unauthorized colonies on BHEL land and Dharamshalas/ hotels shall not be considered, hence such vendors need not apply. Any vendor who is under hold (for the item)/ delisted/ banned with BHEL on date of opening of Part – 1 will not be allowed to quote for this tender. In case their offer is received, it may be out rightly rejected.

Unregistered vendors may please visit our site [www.bhel.com](http://www.bhel.com) for filing up the Supplier Registration Form. Copy of filled Supplier Registration Form (SRF) may be submitted along with the offer.

Foreign and Indigenous bidders against open tender may obtain class – III DSCs. Procedure for application is available on [www.bhel.com](http://www.bhel.com).

**KINDLY READ “INSTRUCTIONS TO BIDDERS.” QUOTATION NOT IN ACCORDANCE WITH THE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.**

## **INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER**

### **DEFINITION**

**Registered Vendors** - Are those who are registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such items.

**Un-registered Vendors** - Are those who are not registered with BHEL, Haridwar for Megawatt rating/ Size/ Weight of tendered components in respective steel grade or machining of such items.

**TECHNICAL QUALIFICATION:** Technical Requirement, Pre-Qualifying Requirements/PQR & Drawings to be submitted. It is the mandatory requirement. Offer of vendors not meeting these requirements may not be considered.

### **ESSENTIAL INSTRUCTIONS**

Un-registered vendors may be approved by BHEL, if found suitable, on the basis of data furnished by them in Supplier Registration Form (SRF) for Foreign Vendors or Indigenous Vendors (as applicable). Vendor Registration Form shall be filled only by unregistered vendors on our website [www.bhel.com](http://www.bhel.com).

BHEL team may visit the vendor(s) works for verification of capability and capacity claimed in tender documents/offer(s).

The tender shall be **submitted in two parts** in separate cover as described below on or before the due date:

#### **Part I (Cover-1) - Containing the following:**

1. Point wise reply/confirmation to both **Pre-qualifying requirement Annexure (PQR)** along with all necessary supporting documents in one go. **Non-compliance of this may lead to rejection of offer.**
2. EMD (Earnest Money Deposit) **Or** Valid certificate/Document towards exemption of Tender fee and/or EMD (applicable for Micro and small Enterprises, Central / State – PSUs / Government departments, PMD vendors etc.). **If EMD is not submitted along with the offer (Part-I) then the offer shall be out rightly rejected.**
3. **Techno -Commercial Bid-** it should be replica of price bid (copy of price bid without price part) in line with technical requirement as per drawings and documents.
4. **Annexure** (Self-Certification Certificate (MII))
5. **Annexure** (Signed BHEL QP 'QA/CF/QP/358, rev02')

#### **Part II (Cover-2) - Containing the following**

1. **Price Bid**

All the sub-envelopes (Part-I & part-II) to be put in a single covering envelope indicating tender no., due date and the name of vendor, e-mail id, with full contact details. Offer should be complete in all respect (i.e. Part-I & part-II). BHEL may decide to ignore the offer in case of submission of incomplete offer.

\* Please submit your offer according to **General Instructions and Standard Terms & Conditions (GISTC), Version December-2020, Rev: 05** for Tender Enquiries. Please visit our site [www.hwr.bhel.com](http://www.hwr.bhel.com) for GISTC. All the bidders/vendors must ensure compliance of these **GISTC (VERSION: Version December-2020, Rev: 05)**. **GISTC (VERSION: Version December-2020, Rev: 05)** can also be referred by login to B2B Portal for Vendors.

**REFERENCES:**

**Annexure- (Pre-Qualification Requirement/PQR)**

**Annexure- (Item Details)**

**Annexure- (General Instructions and Standard Terms & Conditions (GISTC), Version Dec 2020, Rev:05)**

**Annexure (Self-Certification Certificate (MII))**

**Annexure (Signed BHEL QP 'QA/CF/QP/358, rev02')**

**Annexure- (Sub-vendor questionnaire format)**

Specification: HW12784, Rev 03, HW0993008 and all cross referred standards

Minimum Qualification Requirement for blade flats of material grade NiCr20TiAl, HW12784 Rev 03

**1.0 Experience Requirement:**

a. Vendor must satisfy following requirements:

- (i) Must have experience of manufacturing and supplying rectangular bars in material grade NiCr20TiAl, (material number 2.4952) or other precipitation hardened Nickel based alloys like Alloy 105, Alloy 115 etc.  
Must have manufactured and executed at least one purchase order of flat bars of NiCr20TiAl or other precipitation hardened Nickel based alloys e.g Alloy 105, Alloy 115 etc. in the last 5 years.

In support of above vendor to submit experience details in enquired grade preferably in format given below:

Sl. No	Name of customer	Purchase order No	Size	Date of supply	Quantity

b. Following documents are to be submitted in support of experience:

- Test certificate duly witnessed/certified by Third party inspection agency / customer of above referred purchase order. Test certificates shall include - chemical & mechanical properties, heat treatment details and dimensions.
- c. Vendor must have creep rupture data of NiCr20TiAl as per the requirement of EN/AMS/ASTM etc. In support, vendor has to submit Creep Rupture Data for flat or round bars or forgings etc., of NiCr20TiAl.

**2.0 Manufacturing and Testing Facilities:**

a. **Vendor to confirm** that they have in house rolling/forging and heat treatment facility to manufacture rectangular bars as per enquiry specification HW12784 and enquiry dimensions and tolerances as per HW0993008.

Following in house facility details are to be submitted:

- Rolling/forging
- Heat treatment facility

b. Vendor to furnish details of in house melting and refining facilities to manufacture raw material for further rolling/forging for turbine blade flats as per enquiry specification. At least one test certificate for material grade NiCr20TiAl manufactured in house to be submitted with offer.

**In case, melting & refining facility is not available in house**, vendor to inform their source of raw material with following details of their source – Experience for enquiry material grade with at least one mill test certificate of enquiry material grade, melting & refining facilities.

c. Vendor to confirm that they have in house testing facilities as per the requirement of enquiry specification. Details of in house facility to be submitted.

**In case of outsourcing of any test**, vendor to agree to carry out testing at Government accredited labs only.

**3.0** Supply length is 2.5 meter to 5 meter with 10% short down to 1 meter as per Specification no HW 0993008. In case vendor wants to offer in shorter lengths wrt this specification, supply in shorter lengths will be acceptable only as cut pieces of fixed length. "For example bars of say 70x30mm will have to be supplied in fixed lengths of 230 mm." BHEL will inform exact lengths for each cross section, in case of offer of lengths shorter than specified, by vendor.

Time

*[Signature]*



**ANNEXURE ITEM DETAIL**

SNO	ENQNO	ITEM-NO	MATCODE	MDESC	QUANTITY	UNIT	Delivery Date
1	202006021	1	HW1270384023	BAR MATERIAL FOR TURBINE BLADE S NICR20TIAL(NIMONIC 80 A) SPEC: HW12784 REV: 03 SIZE: 60X26 DIM.: WXT	520	KG	31.07.2021
2	202006021	2	HW1270384031	BAR MATERIAL FOR TURBINE BLADE S NICR20TIAL(NIMONIC 80 A) SPEC: HW12784 REV: 03 SIZE: 62X28 DIM.: WXT	535	KG	31.07.2021
3	202006021	3	HW1270384015	BAR MATERIAL FOR TURBINE BLADES NICR20TIAL(NIMONIC 80A) SPEC: HW12784 REV: 03 SIZE: 64X29 DIM.: WXT	1021	KG	31.07.2021
4	202006021	4	HW1270384104	BAR MATERIAL FOR TURBINE BLADE S NICR20TIAL(NIMONIC 80 A) 70X29 MM SPEC: HW12784 REV: 03 SIZE: 70X29 DIM.: 70X29	416	KG	31.07.2021
5	202006021	5	HW1270384112	BAR MATERIAL FOR TURBINE BLADE S NICR20TIAL(NIMONIC 80 A) 7 3X36 MM SPEC: HW12784 REV: 03 SIZE: 73X36 DIM.: 73X36	444	KG	31.07.2021
6	202006021	6	HW1270384120	BAR MATERIAL FOR TURBINE BLADE S NICR20TIAL(NIMONIC 80 A) 7 5X36 MM SPEC: HW12784 REV: 03 SIZE: 75X36 DIM.: 75X36	488	KG	31.07.2021



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version December-2020, Rev: 05)

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### 1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of Purchase Order (P.O) until unless the deviations are specifically agreed by BHEL.

### 2. ORIGIN OF QUOTATION.

- a) The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer/agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- b) An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

### 3. SUBMISSION OF TENDER.

- a) Bid / Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER / Dropped in the Tender Box: addressed as follows:

Quotation against Enquiry No. \_\_\_\_\_

Dated: \_\_\_\_\_

Due on: \_\_\_\_\_

To,

**THE HEAD OF MATERIALS MANAGEMENT,  
Heavy Electrical Equipment Plant,  
Bharat Heavy Electricals Limited,  
HARIDWAR-249403 (Uttarakhand), INDIA.**

- b) TENDER ROOM is located at: Room No. - 415, 4<sup>th</sup> Floor, Main Admin. Building, BHEL-HEEP, Haridwar.

## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)

For Indian Bidders (Version December-2020, Rev: 05)

- c) In case of Three / Two Part Bid, technical bid containing technical offer, duly signed and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- d) The bid / quotation must be posted before due date, keeping allowance for postal transit time. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer / bid shall be signed and stamped in each page by authorized representative of the bidder.
- e) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped.
- f) The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The cutting / overwriting in the bid / offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site [www.bhel.com](http://www.bhel.com).
- g) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion such PMD vendor from BHEL's approved vendor list.
- h) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 2 Crore or more.
- i) In case of open tender, technically qualified unregistered bidders may apply online for registration through <http://www.bhel.com/index.php/vender>.
- j) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at L1 counter offered rates, if the quantity offered by the L-1 bidder is less than the quantity tendered for.
- k) In case of e-Tendering (Online bidding through e-portal), offline bid submitted in hard copy or in any other form by the vendor / supplier will not be accepted and will be rejected out rightly. Only e-portal bid will be accepted.

#### 4. TENDER OPENING.

Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore, bid / quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. **TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.** The bidders or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter on that particular day. General authorization letter is not acceptable.

***Note: - Foreign bidders willing to attend the bid opening has to provide the requisite documents to the concerned Purchase executives for arranging gate pass for them.***

#### 5. SPECIFICATION, DRAWINGS & STANDARD.

- a) Bidders must give their detailed specification in the quotation along with relevant technical literature / catalogue etc. against the tender enquiry.
- b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry.

## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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For Indian Bidders (Version December-2020, Rev: 05)

If these documents are not furnished, the offer is liable to be rejected.

- c) Wherever national / international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply.
- d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of the company.

### 6. PRICE SCHEDULE.

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
- b) Prices quoted should not be more than the prices quoted to any other BHEL units / offices / divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided.
- c) Prices should be quoted on F.O.R. Destination basis. Transit insurance shall be arranged by BHEL and not to be included in the prices. The offers quoted on other than F.O.R destination basis may result in non-consideration of such bids.
- d) In case BHEL accepts the EX-Works prices, such offers will be loaded by 1.5% of EX-Works value towards freight or with actual freight charges as per BHEL freight rate contract whichever is higher.
- e) In case of Indigenous items covered by DGS & D Rate Contract, the bidders should submit latest valid copy of the rate contract along with bid / quotation
- f) Applicable **IGST / CGST / SGST** and any other statutory levy should be indicated separately and clearly in the bid / quotation.

- g) Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination. If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery BHEL Stores basis.
- h) In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account.
- i) Any demurrage / godown rent payable to the transporter / or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.
- j) Currency of Evaluation shall be INR.

**NB: Financial evaluation of L1, L2 .....Status will be on the basis of Landed Cost to BHEL.**

### 7. REVERSE AUCTION.

**Wherever RA is declared in the special terms and conditions of tender enquiry, following shall be applicable and Bidders to confirm the same:**

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."

### 8. DELIVERY TERMS.

- a) Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the tender enquiry.
- b) Loading on account of 3rd party inspection charges in case of Indian bidders shall be 0.20%.

**## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.**



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### 9. PENALTY FOR LATE DELIVERY.

#### a) Where items of Purchase Order are independently usable.

Penalty for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the Gross Value payable to the vendor (Before LD) against such supplies excluding taxes and duties.

#### b) **Where the total items are required for a main equipment and items are interdependent.**

Penalty for Late Deliveries shall be applicable @0.5% per week or part thereof on total value of Purchase Order subject to maximum of 10% of the total value of Purchase Order. Purchase Order value for this purpose shall be the Total Gross Value payable to the vendor (Before LD) excluding taxes and duties.

c) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement.

d) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.

e) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order.

f) **DELIVERY IN CASE OF REJECTION:** In case the material is rejected, then date of replacement will be considered as the actual date of delivery.

g) **DELIVERY AGAINST BANK DOCUMENTS:** In case payment terms quoted by bidder are documents through bank, and the delivery terms being "FOR Haridwar / FOR Transporter Go-down" then date of delivery will be date of intimation by transporter / bidder of delivery of material at Haridwar for the penalty purpose.

g) Where the payments are through bank, the documents may be presented for negotiation to BHEL authorized / nominated bank.

### 10. PAYMENT TERMS.

a) BHEL's standard payment term is Payment after receipt and acceptance of materials / items at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry.

b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term.

c) Loading on account of deviation in payment terms shall be done as per extant rules of BHEL-Haridwar.

d) 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 75 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. In case any discrepancy found in the documents, BHEL will notify the same to vendor within 7 days of receipt. Vendor has to clear all the discrepancies in one go within 7 days thereafter else the payment of vendor may get delayed.

e) For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act.

f) Adherence to the above time schedule of payment is contingent upon Vendor complying with GST Rules w.r.t availment of Input Tax Credit by BHEL.

g) In case GST credit is delayed / denied to BHEL, due to non / delayed receipt of goods and / or tax invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reason not attributable to BHEL, GST amount shall be recoverable from Vendor along with interest levied / leviable on BHEL.

h) The taxes and duties that are reimbursed would be the ones applicable as on the contractual Purchase order delivery date or the amount actually paid whichever is less.



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**i) The loading criteria for the different payment terms shall be as under;**

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	<b>No Loading</b>
Against Delivery at BHEL-Stores Haridwar.	<b>45</b>
Against documents through bank (CAD):	<b>45</b>
Letter of Credit (LC)	<b>120</b>
Usance LC	No Loading if usance period is > 120 Days.
	Loading of days' difference i.e. difference between 120 days and usance period if the usance period is < 75 days.
Advance	Delivery Period + 120 Days - Advance Payment Days.

### 11. TAXES & DUTIES.

- a) The bidder to specify in their offer (part 1 bid) the category of their registration under GST like Registered, Unregistered and composite dealer.
- b) The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Haridwar is "05AAACB4146P1ZL" with state Code as "05" and State Name as "Uttarakhand".
- c) Please quote our provisional GST registration number in all invoices raised for supply of goods and services under GST regime and also ensure filing of timely return and payment of tax and compliance of other applicable provisions on supplier under GST regime.
- d) No GST will be reimbursed to unregistered or composite dealer. In the event, any GST is quoted by composite dealer, the same shall be added to the cost of supply in evaluating the bid.
- e) Since, input credit of GST will be available to BHEL-Haridwar only after correct filing of return and payment of applicable GST by supplier, reimbursement of GST shall be made by BHEL-Haridwar on matching of vendor inputs at GST portal,

ensuring availability of input credit to BHEL Haridwar. Payment of GST will be made to vendor after matching of input credit and vendor to ensure submission of their invoices along with consent to accept payment of tax after such matching in all cases where bills are submitted directly to BHEL-Haridwar or through bank or under LC or through any other mode.

- f) In the event of any disallowance of input credit or applicability of interest or any other financial liability arises on BHEL-Haridwar due to any default of supplier under GST, such implication shall be to supplier's account.
- g) In the event of any change in the status of the vendor after the submission of the bid but before the supply, GST applicable at the time of supply or in the bid, based on the registration status of the vendor, whichever is lower shall be payable.
- h) Where ever applicable If PAN (Permanent Account Number) of the recipient is not available, income tax is deductible either at the normal rate or at the rate of 20 percent, whichever is higher as per Section 206AA of Indian Income Tax Act 1961.
- i) The bidder shall clearly indicate HSN (*Harmonised System Nomenclature*) / SAC (*Service Accounting Code*), its description and applicable rate of GST for each item in his techno-commercial bid.
- j) Statutory Variation in Taxes & duties as applicable at the time of supply shall be payable. However, in the event of no change in law but bidder quoting certain tax structure in bid document which is lower than the applicable one, such amount shall be the maximum amount of tax that can be claimed by bidder.
- k) **IMPORTED GOODS OFFERED BY INDIAN BIDDERS AGAINST DEALER INVOICE:** Wherever the material being offered is imported, the bidder must quote the prices inclusive of IGST. The rate and value of IGST as included in the price must be indicated separately. In case quantum of IGST is not mentioned by the bidder the same will not be considered for evaluation. However, bidder will have to pass on the benefit of IGST to BHEL at the time supply.



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- l) In case of directly dispatchable items to Customer's Site, BHEL-Haridwar will inform the GST registration number of the respective customer which must be mentioned on the vendor's invoice. Vendor to ensure availability of such information from BHEL-Haridwar before dispatch of any material. However, while filing GSTN-1, BHEL Haridwar GSTN number to be quoted.

Note: - Vendors must ensure compliance of all the applicable rules and procedure as envisaged in the GST Regime. Any loss to BHEL-Haridwar due to fault / non-compliance by the vendor will be to the vendor's account.

### 12. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit/performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website [www.bhelhwr.co.in](http://www.bhelhwr.co.in). However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

### 13. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.

Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 18 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event

of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or at our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.

- b) **RETURN OF REJECTED MATERIAL FOR REPLACEMENT:** The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement / submission of BG / refund of amount paid.

### 14. QUALITY REQUIREMENT.

Your bid / quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable).

### 15. VALIDITY.

The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry.

### 16. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.
- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be



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permitted within the validity period asked for in the tender enquiry.

- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for then the latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

### 17. TRANSIT INSURANCE.

- a) Transit Insurance will be covered by BHEL under its open Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR /GR, Invoice value etc.) to "Finance department (Store bill Section), BHEL Ranipur, Haridwar (Uttarakhand-India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
- b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope.

### 18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment 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.

### 19. FORCE MAJEURE CLAUSE.

Notwithstanding any other thing contained anywhere else in the contract or PO (Purchase Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (PO date).

In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- a) Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- b) War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- c) Rebellion, revolution, insurrection, civil war etc.
- d) Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- e) Riots, commotions, strike unless restricted to the employees of supplier.
- f) Acts of terrorism.
- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.





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- i) Change in law / government. Regulation making the performance impossible.

The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

- Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement.
- mitigate the effect of any Force Majeure Event and
- Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in this P.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

### 20. NON-DISCLOSURE AGREEMENT.

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information

shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.

### 21. SETTLEMENT OF DISPUTES / ARBITRATION.

In all cases of dispute, the matter shall be referred for ARBITRATION by sole arbitrator to be appointed by the Unit Head of Bharat Heavy Electricals Ltd., at HARIDWAR. The award of the Arbitrator shall be final and binding on both the parties. The place of Arbitration shall be Haridwar.

**JURISDICTION:** The courts of Haridwar, India, shall have exclusive jurisdiction.

### 22. WHARFAGE / DEMURRAGE RESPONSIBILITY.

In the event of delay in receipt of documents by Manager (Stores-Shipping) BHEL-Haridwar and in case where dispatches are made through Unapproved Transporter the sole responsibility for wharfage / demurrage for such delay shall be that of supplier.

### 23. CONDITIONS FOR AVAILING MICRO & SMALL ENTERPRISES (MSE'S) BENEFITS.

- "MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (**five years** from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at annexure-1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two-part bid) or vendor has to give Udyog Adhar Memorandum (UAM). Non submission of such documents will lead to consideration of their bid at par with



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other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is found or the requisite documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above require document are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer. **UAM need not required to be notarized or attested.**

**b)** Any new supplier will be eligible for registration with BHEL as MSE supplier provided at least any one of the following documents are submitted along with application for registration: -

1. Udyog Adhar Memorandum (UAM).
2. Valid National Small Industries Commission (NSIC) Certificate.
3. Entrepreneurs Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) or
4. EM II certificate along with attested copy of CA Certificate (as per prescribed format at annexure-A) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over.
5. However, credentials of all MSE suppliers will be verified before advancing the intended benefits.
6. MSE bidders claiming SC/ST status will have to submit SC/ST certificate of the Proprietor from competent authority. Attested (notarized or attested by Gazetted officer) copy to be submitted along with the offer.
7. In case techno-commercial accepted bidders include MSE source and their prices (based on landed cost – considering quoted prices) are within the price band of 15% w.r.t. L-1 bidder, then BHEL can offer **25%** of quantity of respective item (rounded off to nearest number) to MSE bidders at L-1 price and in case, more than one MSE bidder is in 15 % band and the same is accepted by more than one MSE bidders then **25%** quantities of respective items will be considered for ordering on proportionate basis amongst MSE bidders.
8. There will be minimum of **3%** reservation for women owned MSEs within the above mentioned 25% reservation.
9. The reservation for MSEs owned by SC/ST will be **6.25%** { 25% out of target of 25% - refer para 4 of Public Procurement Policy for the Micro and Small Enterprises(MSEs)}.
10. The definition of MSEs owned by Women Entrepreneurs is clarified as under:

- a) In case of proprietary MSE, proprietor shall be Woman.
- b) In case of partnership MSE, the Woman partners shall be holding at least 51% of share in the unit.
- c) In case of Private Limited companies, at least 51% share shall be held by Women promoters.

11. The definition of MSEs owned by SC/ST is clarified as under:

- a) In case of proprietary MSE, proprietor(s) shall be SC/ST.
- b) In case of partnership MSE, the SC/ST partners shall be holding at least 51% of shares in the unit.
- c) In case of Private Limited companies, at least 51% share shall be held by SC/ST promoters.

12. While distributing the **25%** quantity amongst MSE bidders the decimal points in quantity shall be ignored for all the bidders except the L-1 amongst MSE bidders. Balance quantity after allocating the quantity to other MSE bidders ignoring the quantities in decimal, shall be given to L-1 (amongst MSE) bidder. However, if there are more than one MSE bidder at the same price level than preference for additional quantities due to ignoring off the decimal (as mentioned above) shall be given to the bidder offering favorable terms to BHEL and if the conditions offered are also same then preference will be given to the bidder having high SPR rating.

13. In case there are more than one MSE bidders (with different landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given to the MSE bidder with lowest landed cost.

14. In case there are more than one MSE bidders (with same landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given first, based on the favorable terms in the bid and in case terms are also same, the bidder with high SPR rating shall be given preference.

15. If L1 bidder is MSE bidder, entire quantity will be given to such MSE bidder only.

16. Note: It may however be noted that MSE guidelines as on date (Date of Technical Bid Opening Part-1) shall prevail.

17. "As per the OM No. F.No. 1(2)(1)/2016-MA dtd. 09.02.2017 issued from the Office of Development Commissioner (Micro, Small & Medium Enterprises), "Traders and agents should not be allowed to avail the benefits extended under the PP Policy."



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In view of this, it is clarified that 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.”

### 24. INFORMATION TO THE BIDDERS.

- a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website <https://hwr.bhel.com>. The user ID & password can be obtained by sending a request to concerned purchase executives.
- b) Intimate your change in mail address or communication address or changes, if any, by email to AGM (SDX/MM) giving your bidder Code.
- c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site <https://hwr.bhel.com>
- d) Copy of this Tender Enquiry is being sent through the post.
- e) The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). 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, suitable action shall be taken by BHEL as per extant policies/guidelines.
- f) Supplier must upload digitally signed e-Invoice on B2B portal for processing of Bills.  
In other cases, inked signed hard copy of Invoice to be submitted for processing of Bills.

### 25. MAKE IN INDIA (GOVT-NOTIFICATION).

- A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.
- B. The margin of purchase preference shall be 20%.
  - ‘Class-I local Supplier’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this order.
  - ‘Class-II local Supplier’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
  - ‘Non- local Supplier’ means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.
- C. Vendor to specifically confirm if they are Class-I or Class-II local supplier or not as per above mentioned notification. Accordingly, the ‘Class-I local supplier’/ ‘Class-II local Supplier’ at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for ‘Class-I local supplier’/ ‘Class-II local Supplier’, as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the ‘Class-I local supplier’/ ‘Class-II local Supplier’ shall be required to provide a Certificate from the Statutory Auditor or Cost Auditor of the Company (in the case of companies) or from a practicing Cost Accountant or practicing Chartered Accountant (in respect of suppliers other than companies) giving the percentage of Local Content.
- E. Requirement of Purchase Preference:  
Purchase preference shall be given to ‘Class-I local supplier’ in procurements undertaken by procuring entities in the manner specified hereunder -
  - a. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are divisible in nature, the ‘class-I local supplier’ shall get purchase preference over ‘Class-II supplier’



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as well as 'Non-local supplier', as per following procedure:

- i. Among All qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
  - ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local supplier, then such balance quantity may also be ordered on the L1 bidder".
- b. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:
- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
  - ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
  - iii. In case such lowest eligible 'Class-I local supplier', fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be

invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 prices, the contract may be awarded to the L1 bidder.

- c. 'Class-II local supplier' will not get purchase preference in any procurement, undertaken by procuring entities.
- F. 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 04.06.2020 issued by DPIIT. In case of subsequent orders issued by 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.
- G. Procurements where estimated value to be procured is less than Rs. 5 lakhs shall be exempted from GOI order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020.
- H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement Policy for the Micro and Small Enterprises (MSEs) Amendment Order, 2019, Ref. No. AA: SSP: MSE: Amndt, dtd. 30.11.2018, Circular No. 44 of 2018-19;-
- a. If L1 bid is not from "Class-I local Supplier" and price quoted by MSE bidder falls within the margin of Purchase preference (L1+15% for MSEs), then 25 % of total order quantity of respective item (rounded off to nearest number) shall be awarded to MSE bidder, subject to MSE bidder matching the L1 Price. Out of Remaining 75% quantity, distribution shall be operated as per below sub-clause (2) –
  - b. If "Class- I Local Supplier" (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and "Class-I local supplier" matches the L1 price, then 50% of remaining Quantity (after allocation of 25% to MSE) i.e. 37.5% shall be awarded to local supplier and 37.5% shall be awarded to foreign bidder.

*Note: L1 Price refers to lowest evaluated / landed cost to Company.*



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For Further details, please refer GOI order no. P-45021 / 2 / 2017 - PP (BE-II) dated 04.06.2020.

### 26. RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall be applicable for this tender enquiry (Order copy is available at <https://doe.gov.in/procurement-policy-divisions>). Accordingly, any bidder from a country which shares a land border with India (except the countries to which the Govt. of India has extended lines of credit or in which the Govt. of India is engaged in development projects for which list is available at <https://www.mea.gov.in/>) will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as specified in Annex I of the said Order of DoE.

Updated list of the countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (<https://www.mea.gov.in/>)

For the purpose of this order, definition of Bidder from a country which shares a land border with India shall be same as defined in the Annex III of the said order.

Registration with the competent authority as stipulated in the said order is responsibility of bidder. Bidder has to submit a certificate certifying following along with offer:

"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 bidder (... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

### 27. NOTE.

- a) Special conditions of enquiry, if enclosed by BHEL, will supersede the respective standard / general terms of enquiry.
- b) Any other Standard terms and Conditions of the bidder attached / referred against the tender enquiry will be treated as null and void ab initio.
- c) In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of supervision of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>
- d) The bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL-Management about any fraud or suspected fraud as soon as it comes to their notice.
- e) "BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below;
  1. **Victim:** Any person who suffers permanent disablement or dies in an accident as defined below.
  2. **Accident:** Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing / operation and works incidental thereto at BHEL factories/ **offices and precincts** thereof , project execution , erection and commissioning, services, repairs and maintenance, trouble shooting , overhaul, renovation and retrofitting , trial



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operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ project sites.

### 3. Compensation in respect of each of the victims:

- (i) In the event of death or **permanent disability** resulting from **Loss of both limbs**: Rs. 10,00,000/- (Rs. Ten Lakh).
- (ii) In the event of **other permanent disability**: Rs. 7,00,000/- (Rs. Seven Lakh).

4. Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to Section 2(l) of the Employees Compensation Act, 1923."



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#### 1. GENERAL.

These general terms & conditions shall apply to all the Tender Enquiries, notice inviting tenders, request for quotations concerning the supply of goods and / or rendering of services to Bharat Heavy Electricals Ltd., HEEP, Haridwar (hereinafter referred to as BHEL or the Purchaser). In case of placement of order these conditions will become part of purchase order until unless the deviations are specifically agreed by BHEL.

#### 2. ORIGIN OF QUOTATION.

- The quotation should preferably be from the principal bidder. However tender specific authorized registered dealer / agent can also submit the bid on their behalf, failing which the quotation is liable to be ignored. BHEL prefers to deal directly with the principal manufacturers.
- An agent cannot quote on behalf of more than one principal in the same Tender Enquiry.

#### 3. SUBMISSION OF TENDER.

- Bid/Quotation must be enclosed in sealed cover on which tender enquiry number and the due date MUST BE written and be invariably sent under REGISTERED POST / SPEED POST / COURIER/Dropped in the Tender Box: addressed as follows: -

Quotation against Enquiry No. \_\_\_\_\_ Dated: \_\_\_\_\_

Due on: \_\_\_\_\_

To,  
THE HEAD OF MATERIALS MANAGEMENT,  
Heavy Electrical Equipment Plant,  
Bharat Heavy Electricals Limited,  
HARIDWAR-249403 (Uttarakhand), INDIA.

- TENDER BOX is located at TENDER ROOM, Room No. - 415, 4<sup>th</sup> Floor, Main Admin. Building, BHEL-HEEP, Haridwar.

## Quotations / Bids not in accordance with General Instructions and Standard Terms & Conditions are likely to be ignored.



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- C) In case of Three / Two Part Bid, technical bid containing technical offer, duly signed; and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- D) The bid / quotation must be posted before due date, keeping allowance for postal transit time. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer / bid shall be signed and stamped in each page by authorized representative of the bidder.
- E) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped.
- F) The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The cutting / overwriting in the bid / offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site [www.bhel.com](http://www.bhel.com).
- G) Being PMD vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion of such PMD vendor from BHEL's approved vendor list.

- H) The bidders will submit Integrity Pact, duly signed by its authorized signatory, along with their bids wherever estimated tender value is Rs. 2 Crore or more.
- I) In case of open tender, technically qualified unregistered bidders may apply online for registration through <http://www.bhel.com/index.php/vender>.
- J) BHEL reserves the right to award tendered quantities among more than one bidder (after acceptance of L1 price by the other bidders). BHEL can also consider awarding of part of the tendered quantity to other than L-1 bidder at **L1 counter offered rates**, if the quantity offered by the L-1 bidder is less than the quantity tendered for.

If the counter offer is to be given to other qualifying Vendor(s) (e.g. in case of splitting of order, MSE Vendors or the case of Purchase preference to make in India), then the basic price for each qualifying vendor has to be calculated taking the landed cost of the L1 vendor as reference. Basic price will be calculated by working backwards from the landed cost of L1 vendor in following manners;

**(1) Counter offer in case of MSE Vendor(s) or the case of Purchase preference to make in India:**

Landed cost of L-1 vendor will be reduced by notional loading of late delivery penalty to the extent the same is not applicable to the vendor being counter offered. The result so arrived at will be put as landed cost and basic price to be counter offered will be worked backward therefrom in price structure of the concerned vendor.

**(2) Counter offer in case of Splitting:**

Landed cost of L-1 vendor will be reduced by custom duty and notional loading of late delivery penalty to the extent the same is not applicable to the vendor being counter offered. The result so arrived at will be put as landed cost and basic price to be counter offered will be worked backward therefrom in price structure of the concerned vendor.

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If the basic price so computed is less than the basic price of the L1 vendor, then this basic price shall be counter offered, otherwise the basic price of L1 vendor shall be counter offered.

- K) BHEL may also reduce the Tender Quantity for offering it to Micro & Small Enterprise (MSE) Indian Vendors as per applicable Government of India rules whose prices are within 15% of L1 prices as per directives of Government of India.
- L) In case of e-Tendering (Online bidding through e portal), offline bid submitted in hard copy or in any other form by the vendor / supplier will not be accepted and will be rejected outrightly. Only e-portal bid will be accepted.

#### 4. TENDER OPENING.

Tender opening is scheduled to start in the Tender Room at 2:00 PM, on the due date. Therefore, bid / quotations must reach this office / tender Box latest by 1:45 PM on due date. Only participating bidders are allowed to attend tender opening. **TENDERS RECEIVED AFTER THE SPECIFIED TIME OF THEIR 'SUBMISSION' WILL BE TREATED AS LATE TENDERS AND SHALL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES.** The bidders or their authorized representatives may be allowed to attend tender opening if duly authorized by their principals, through a tender specific letter on that particular day. General authorization letter is not acceptable.

**Note: - Foreign bidders willing to attend the bid opening has to provide the requisite documents to the concerned Purchase executives for arranging gate pass for them.**

#### 5. SPECIFICATION, DRAWINGS & STANDARD.

- a) Bidders must give their detailed specification in the quotation along with relevant technical literature / catalogue etc. against the tender enquiry.
- b) The Bid should be accompanied with relevant copies of catalogues, drawings or specification as per tender enquiry.

If these documents are not furnished, the offer is liable to be rejected.

- c) Wherever national / international (N/IN) standards are referred, the latest N/IN standards are to be followed. Mention year & date of standard revision that shall be followed for the supply.
- d) All Drawings and Standards are proprietary of BHEL. It must not be used in anyway detrimental to the interest of the company.

#### 6. PRICE SCHEDULE.

- a) Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 status.
- b) Prices quoted should not be more than the prices quoted to any other BHEL units / offices / divisions. Vendor to submit copy of latest Purchase Order placed by any unit of BHEL for similar items in the technical bid. In case no order has been placed on such items, specific confirmation that no order has been placed on such items should be provided.
- c) Bidders need to quote their prices on CFR any sea port in Mumbai or FCA basis to the named airport in Euro/USD/JPY/UK Pound/SF/Singapore Dollar or any other Internationally freely tradable currency only. The name of the currency should be clearly indicated in your bids.
- d) In case the vendor quotes the prices on CFR basis and BHEL accepts the delivery term on CFR, **0.25 %** (of CFR Value) towards port handling charges & **1.5 %** (of CFR Value) towards inland freight or actual freight charges as per BHEL freight rate contract whichever is higher, shall be loaded in the prices for ascertaining the landed cost to decide the comparative status of the prices.
- e) However, if BHEL agrees to accept the FOB delivery terms, the FOB prices shall be loaded **2.0%** (of FOB Value) towards sea freight, **0.25%** (of FOB Value) towards port handling charges & **1.5%** (of FOB value) towards inland freight for

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ascertaining the landed cost to decide the comparative status of the prices.

**f) Basis of Evaluation for Bid / Quotation in foreign currency:**

1. Currency exchange rate (TT selling rates of SBI) for evaluation of the bid / quotation received in foreign currency will be as follows:
2. Single part bid – Date of tender opening.
3. Two / Three-part bid – Date of part 1 opening.
4. Reverse auction – Date of part-1 opening.

**Note:** - Financial evaluation of L1, L2 ----- status will be on the basis of Landed Cost to BHEL.

f1) Currency of Evaluation shall be INR.

**g) Evaluation of Indian Agents Commission:**

1. BHEL prefers to deal directly with foreign bidder, wherever required, for procurement of Goods. However, if the Foreign Principal desires to avail services of an Indian Agent then the Principal should ensure compliance to applicable guidelines.
2. The FOB / CIF price quoted will be deemed to be inclusive of Indian Agency commission. Agency commission if payable shall be converted to Indian Rupees at TT buying rates of exchange ruling on tender opening date which shall not be subjected to any further exchange rate variation, as disclosed by the bidder in his quoted FOB / CIF price will be paid in Indian Rupees on receipt & acceptance of Materials or it's installation at destination, as the case may be. The lower of the TT buying rate prevailing on the date of technical bid opening shall be considered for computation of Agency commission.
3. In a tender either the Indian Agent on behalf of Principal / OEM or the Principal / OEM itself can bid, but both cannot bid simultaneously for same item / product in the same Tender. If both OEM and its authorized agent submit their bids separately in that case only the offer of OEM can be considered as an exception.

**h) While submitting your bids please clearly indicate:**

1. Expected weight of goods (lots wise).
2. The size of packed goods.
3. Whether the goods can be dispatched in containers?
4. Port of Loading.
5. Port of Discharge.

### 7. REVERSE AUCTION.

**Wherever RA is declared in the special terms and conditions of tender enquiry, following shall be applicable and Bidders to confirm the same:**

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."

### 8. DELIVERY TERMS.

- a) Goods shall be dispatched by sea, unless stated otherwise in the tender enquiry or purchase order.
- b) Specifically confirm your agreement to change the mode by Air at BHEL's request as per mutually agreed terms even after placement of Purchase Orders.
- c) The Trans-shipment is not permissible in case of Break Bulk Cargo. In rest of the case Trans-shipment condition in BHEL purchase order / letter of credit will be as per Uniform Custom and Practice for documentary credits, UCP 600 of International Standard Bank proceed re-issued by International chamber of Commerce (ICC).

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- d) Any demurrage / Godown Rent payable to the Port Authorities due to any delay attributed by the supplier will be recovered from supplier's account.
- e) A certificate of origin (COO) sanctioned in country of origin from chamber of commerce of the manufacturing country is to be provided mandatorily. However, a certificate of origin (COO) from the countries under the restricted list of Govt. of India will not be acceptable.
- f) For reasons of delay in receipt of documents from suppliers or due to the same being found to be incomplete, and / or faulty, the suppliers shall be responsible to reimburse in all demurrages / wharfages, if any paid by BHEL (for stated reasons).
- g) Load port charges shall be settled by the supplier and not be passed on to BHEL in form of destination charges.
- h) In the event of bidder offering CFR delivery terms for delivery in FCL (Full Container Load), the bidder shall provide 21 days' time free of detention for General Purchase Container / High Cube Container and 14 days for the other types from the date of delivery at delivery port. Wherever the detention free period offered is less than the above specified period, the consequential cost at port of clearance shall be to the account of the bidder. Number of detention free days must be mentioned on Bill of Lading (BL).
- i) In case of CFR delivery, Port congestion charges or any additional charges claimed by shipping line till delivery at destination port shall be to the bidder's account.
- j) The shipping line should be ready to move the containers to consignees nominated CFS (Container Freight Station) yard and Indian agent of shipping line should issue Cargo Arrival Notice (CAN) 7 days in advance for filing the IGM (Import General Manifest) at discharge port.
- k) In case of CFR contract, bidder to supply the material through a Certified Sea worthy vessel.
- l) **The invoices being issued by shipping lines must be in the name of BHEL. Any loss in GST due to submission of discrepant document will be recovered from supplier / vendor.**
- m) While booking the shipment, bidder to also finalize **destination charges** and the same should appear over BL or agreed tariff to be provided to BHEL before arrival of shipment.
- n) If cargo is stuffed in container, then the same should be allowed to be moved to CFS of importers choice without any additional charges.
- o) NNDs (Non Negotiable Documents) (preferably with OBLs) should be sent to BHEL as detailed in para "p" (below), at least 7 days in advance i.e. 7 days before the arrival of vessel so as to enable BHEL to move the containers to JWC CFS.
- p) **Information related to OBL / AWB Documents:**
- I. Consignee name and address should be same as mentioned in the Purchase order.
- II. Notify party: Name and address will be as follows :( For discharge port Mumbai or Nhava Sheva)  
Bharat Heavy Electricals Limited  
14th Floor World Trade Centre-1, Cuffe Parade, Colaba, Mumbai -400005  
Email: msseahwr@bhel.in & ppximx@bhelh.in (in case of Sea Shipments)  
Email: [msair@bhel.in](mailto:msair@bhel.in) and [ppximx@bhel.in](mailto:ppximx@bhel.in) (in Case of Air shipments)
- For latest updating please refer our web site:  
<https://hwr.bhel.com>
- III. OBL should clearly mention the Indian agent address and contact details.
- IV. OBL should be issued as per UCP 600.
- V. In case of shipments other than FOB, OBL should mention the container detention free period.

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VI. In case of placement of an Order, BHEL requests bidder to supply one Original Bill of Lading / AWB directly to BHEL-Mumbai office (Address at Para "p-II") with other non-negotiable documents to ensure timely clearance of goods. The other Original Bill of Ladings (BL) may be routed through bank based on the other agreed terms and conditions of purchase order.

### 9. PENALTY FOR LATE DELIVERY.

#### a) Where items of Purchase Order are independently usable.

Penalty for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the Gross Value payable to the vendor (Before LD) against such supplies excluding taxes and duties.

#### b) Where the total items are required for a main equipment and items are interdependent.

Penalty for Late Deliveries shall be applicable @0.5% per week or part thereof on total value of Purchase Order subject to maximum of 10% of the total value of Purchase Order. Purchase Order value for this purpose shall be the Total Gross Value payable to the vendor (Before LD) excluding taxes and duties.

"In case of CFR shipment where BHEL accepts the date of inspection as the date of delivery for the purpose of penalty, the vendor has to ensure the shipment within 30 days for containerized cargo and 45 days maximum for Break bulk cargo from the date of inspection. Any delay, beyond this period, which is not attributable to BHEL shall be considered for application of penalty."

"In case of FOB shipment, vendor has to intimate the readiness of cargo after inspection to BHEL nominated Freight forwarder minimum 15 days in advance for containerized cargo and 30 days in advance for Break bulk cargo before the FOB delivery date. The delay in shipment due to late intimation to BHEL nominated freight forwarder

and not attributable to BHEL will be considered for application of penalty".

- c) Bidders are requested to quote the best delivery meeting the delivery requirements. BHEL reserves the right to reject the offers not meeting BHEL's delivery requirement.
- d) Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.
- e) Bidder shall deliver the goods in the manner and schedule agreed under the terms and conditions of Purchase order.
- f) The delivery date for penalty purpose will be the Bill of Lading Date/Air way bill.

### 10. PAYMENT TERMS.

- a) BHEL's standard payment term is Payment after Receipt and Acceptance of Material / Item at HEEP, BHEL-Store or at desired destination unless otherwise specified in Special Terms attached to the tender enquiry.
- b) BHEL reserves the right to accept or reject the offer of the bidder who quotes the payment term other than BHEL's standard payment term.
- c) Where the payments are through bank, the documents may be presented for negotiation through BHEL designated banks which will be specified in Purchase order. Documents should be submitted within 5 days of vessel sailing and receipt of OBL from shipping line.
- d) In case BHEL agrees for payment through LC, the same shall be irrevocable, unconfirmed and will be opened 30 days prior to the scheduled delivery and will be valid for a period of 60 days.
- e) In case of payment after receipt and acceptance of material, 100% payment will be made within 75 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of

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Purchase Order. In case any discrepancy found in the documents, BHEL will notify the same to vendor within 7 days of receipt. Vendor has to clear all the discrepancies in one go within 7 days thereafter else the payment may get delayed.

**The loading criteria for the different payment terms shall be as under;**

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	<b>No Loading</b>
Against Delivery at BHEL-Stores Haridwar.	<b>45</b>
Against documents through bank (CAD):	<b>45</b>
Letter of Credit (LC)	<b>120</b>
Usance LC	No Loading if usance period is > 120 Days.
	Loading of days difference i.e difference between 120 days and usance period if the usance period is < 120 days.
Advance	Delivery Period + 120 Days -Advance Payment Days

### 11. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit / performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website [www.bhelhwr.co.in](http://www.bhelhwr.co.in). However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

### 12. GUARANTEE / WARRANTY AND CORRESPONDING REPAIRS / REPLACEMENT OF GOODS.

- Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 18 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or at our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.
- In case the material is rejected, then date of replacement will be considered as the actual date of delivery.
- The bidder shall have to pay 5% incidental charges while taking back supplied material if it is found rejected on receipt. The rejected material shall be sent back only after receipt of replacement /submission of BG/refund of amount paid.

### 13. QUALITY REQUIREMENT.

Your bid/quotation should have specific confirmation regarding meeting all our quality requirements such as. (i) Test Certificate (TC), (ii) Guarantee Certificate (GC) / Warranty Certificate (WC), (iii) Quality Plan (QP) (if applicable); and (iv) Pre-Dispatch Inspection at your works (if applicable).

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### 14. VALIDITY.

The quotation should be valid for a minimum period of 90 days effective from the date of opening of tender, unless otherwise specified in the tender enquiry.

### 15. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.
- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for, then latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.

- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

### 16. TRANSIT INSURANCE.

- a) Transit Insurance will be covered by BHEL under its open Marine Insurance Policy. Seller shall inform dispatch particulars (Purchase Order, RR/GR/BL/ AWB, Invoice value etc.) to Finance department (Store bill Section), BHEL Ranipur Haridwar (Uttarakhand -India) with value of consignment to the Purchaser within 07 days of dispatch for BHEL to arrange insurance coverage in its policy. Failure on the part of seller to inform dispatch particulars will make him liable to pay for any transit damages / losses suffered by the Purchaser.
- b) If Quoted Prices are inclusive of transit insurance, no weightage shall be given while evaluating the bids for Cost of Insurance, being in BHEL Scope.

### 17. PHYTOSANITARY CERTIFICATE:

- a) As per the Indian Law, all consignments being imported into India by air / sea require a phytosanitary certificate from the country of origin-if articles have been packed with wooden packaging materials. This is mandatory. Please confirm in your offer / dispatch documents that the required phytosanitary certificate will be submitted.
- b) Packaging material means any kind of material of plant origin used for packing which include hay, straw wood shavings, wood chips, saw dust, wood waste, wooden pallets, dunnage mats, wooden packages, coir pith, peat or sphagnum moss etc.

### 18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or

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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.

### 19. FORCE MAJEURE CLAUSE.

Notwithstanding any other thing contained anywhere else in the contract or PO (Purchase Order), In case the discharge of obligation under the contract by either party is impeded or made unreasonably onerous, neither party shall be considered in breach of the contract to the extent that performance of their respective obligation is prevented by an event of Force Majeure that arises after the effective date (PO date).

In the above clause, Force Majeure means an event beyond the control of the parties to the contract which prevents a party from complying with any obligation of the contract including but not limited to:

- a) Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- b) War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- c) Rebellion, revolution, insurrection, civil war etc.
- d) Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- e) Riots, commotions, strike unless restricted to the employees of supplier.
- f) Acts of terrorism.
- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.

- i) Change in law/ government. Regulation making the performance impossible.

The party claiming to be affected by force majeure shall notify the other party in writing immediately without delay on the intervention and on the cessation of such circumstances.

Irrespective of any extension of time, if an event of force majeure occurs and its effect continues for more than 180 days the affected party shall have right to cancel the contract.

As soon as reasonably practicable following the date of commencement of a Force Majeure Event, and within a reasonable time following the date of termination of a Force Majeure Event, either Party invoking it shall submit to the other Party reasonable proof of the nature of the Force Majeure Event and of its effect upon the performance of the Party's obligations under this Agreement.

The party shall, and shall ensure that its Subcontractors shall, at all times take all reasonable steps within their respective powers and consistent with Good Operating Practices (but without incurring unreasonable additional costs) to:

- a) Prevent Force Majeure Events affecting the performance of the party's obligations under this Agreement;
- b) mitigate the effect of any Force Majeure Event; and
- c) Comply with its obligations under this Agreement.

If the war like situation has developed in a country where a seller's works is located in the P.O. or there is political instability and Indian Embassy located in that country forbids or advises for not having any business dealing with the sellers located in such zone / region/ country, then BHEL reserves the right to cancel the order.

### 20. NON-DISCLOSURE AGREEMENT.

All Drawing and Technical Documents relating to the product or its manufacture submitted by one party to the other, prior or subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without

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the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others. BHEL reserves the right to claim damages from the bidder, or take appropriate penal action as deemed fit against the bidder, for any infringement of the provisions contained herein.

### 21. SETTLEMENT OF DISPUTES/ARBITRATION.

Any dispute/difference arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration under the Arbitration and Conciliation Act, 1996 of India by a Sole Arbitrator to be appointed with mutual consent of the parties. Such Sole Arbitrator shall be either a retired judge of Supreme Court or High Court or District Court of India or some Advocate having practiced in Indian Courts. The seat or place of arbitration shall be New Delhi, India. The language to be used in the arbitration shall be English. The governing law of the contract shall be the substantive law of India. In case the parties fail to agree on the appointment of arbitrator within 2 months of the notice invoking arbitration by one party, then the arbitrator shall be appointed in accordance with the Arbitration and Conciliation Act, 1996 of India.

**JURISDICTION:** The courts of New Delhi, India, shall have exclusive jurisdiction.

### 22. INFORMATION TO THE BIDDERS.

- Purchase related information is available at our Business-to-Business (B2B) Portal available on our website <https://hwr.bhel.com>. The user ID & password can be obtained by sending a request to concerned purchase executives.
- Intimate your change in mail address or communication address or changes, if any, by email to AGM (SDX/MM) giving your bidder Code.

- Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site <https://hwr.bhel.com>.
- Copy of this Tender Enquiry is being sent through the post/ Courier / E-mail or by any existing means.
- Invoice description and Unit of measurement should be strictly in accordance with Purchase order.
- Unit of measurement for dimension and weight should be in metric system only.
- The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). 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, suitable action shall be taken by BHEL as per extant policies/ guidelines.
- Supplier must upload digitally signed e-Invoice on B2B portal for processing of Bills. In other cases, inked signed hard copy of Invoice to be submitted for processing of Bills.

### 23. MAKE IN INDIA (GOVT-NOTIFICATION).

- This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.
- The margin of purchase preference shall be 20%.
  - 'Class-I local Supplier' means a supplier or service provider, whose goods, services or works offered for

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procurement, has local content equal to or more than 50%, as defined under this order.

- 'Class-II local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.
- 'Non- local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under this order.

C. Vendor to specifically confirm if they are Class-I or Class-II local supplier or not as per above mentioned notification. Accordingly, the 'Class-I local supplier' / 'Class-II local Supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier' / 'Class-II local Supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.

D. In cases of Procurement for a Value in Excess of Rs. 10 Crores, the 'Class-I local supplier' / 'Class-II local Supplier' shall be required to provide a Certificate from the Statutory Auditor or Cost Auditor of the Company (in the case of companies) or from a practicing Cost Accountant or practicing Chartered Accountant (in respect of suppliers other than companies) giving the percentage of Local Content.

E. Requirement of Purchase Preference:

Purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified hereunder -

a. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are divisible in nature, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:

- i. Among All qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.

ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local supplier, then such balance quantity may also be ordered on the L1 bidder".

b. In the procurements of goods or works, which are covered by para 3(b) of mentioned Govt. circular and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'class-I local supplier' shall get purchase preference over 'Class-II supplier' as well as 'Non-local supplier', as per following procedure:

i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.

ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.

iii. In case such lowest eligible 'Class-I local supplier', fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly.

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In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 prices, the contract may be awarded to the L1 bidder.

- c. 'Class-II local supplier' will not get purchase preference in any procurement, undertaken by procuring entities.
- F. 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 04.06.2020 issued by DPIIT. In case of subsequent orders issued by 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.
- G. Procurements where estimated value to be procured is less than Rs. 5 lakhs shall be exempted from GOI order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020.
- H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement Policy for the Micro and Small Enterprises (MSEs) Amendment Order, 2019, Ref. No. AA: SSP: MSE: Amndt, dtd. 30.11.2018, Circular No. 44 of 2018-19;-
- a. If L1 bid is not from "Class-I local Supplier" and price quoted by MSE bidder falls within the margin of Purchase preference (L1+15% for MSEs), then 25 % of total order quantity of respective item (rounded off to nearest number) shall be awarded to MSE bidder, subject to MSE bidder matching the L1 Price. Out of Remaining 75% quantity, distribution shall be operated as per below sub-clause (2) –
- b. If "Class- I Local Supplier" (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and "Class-I local supplier" matches the L1 price, then 50% of remaining Quantity (after allocation of 25% to MSE) i.e. 37.5% shall be awarded to local supplier and 37.5% shall be awarded to foreign bidder.

*Note: L1 Price refers to lowest evaluated / landed cost to Company.*

For Further details, please refer GOI order no. P-45021 / 2 / 2017 - PP (BE-II) dated 04.06.2020.

### 24. RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall be applicable for this tender enquiry (Order copy is available at <https://doe.gov.in/procurement-policy-divisions>). Accordingly, any bidder from a country which shares a land border with India (except the countries to which the Govt. of India has extended lines of credit or in which the Govt. of India is engaged in development projects for which list is available at <https://www.mea.gov.in/>) will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as specified in Annex I of the said Order of DoE.

Updated list of the countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (<https://www.mea.gov.in/>)

For the purpose of this order, definition of Bidder from a country which shares a land border with India shall be same as defined in the Annex III of the said order.

Registration with the competent authority as stipulated in the said order is responsibility of bidder. Bidder has to submit a certificate certifying following along with offer:

"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 bidder (.... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

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### 25. NOTE.

- a) Special conditions of enquiry, if enclosed by BHEL, will supersede the respective standard/general terms of enquiry.
- b) Any other Standard terms and Conditions of the bidder attached/referred against the tender enquiry will be treated as null and void ab initio.
- c) In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of supervision of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>
- d) The bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL-Management about any fraud or suspected fraud as soon as it comes to their notice.
- e) "BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below;
  1. **Victim:** Any person who suffers permanent disablement or dies in an accident as defined below.
  2. **Accident:** Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing / operation and works incidental thereto at BHEL factories/ **offices and precincts** thereof , project execution , erection and

commissioning, services, repairs and maintenance, trouble shooting, serving , overhaul, renovation and retrofitting , trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ project sites.

### 3. Compensation in respect of each of the victims:

- (i) In the event of death or **permanent disability** resulting from **Loss of both limbs:** Rs. 10,00,000/-(Rs. Ten Lakh).
- (ii) In the event of **other permanent disability:** Rs. 7,00,000/- (Rs. Seven Lakh).

Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to Section 2(l) of the Employees Compensation Act, 1923."

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**Self-certification**

As per Government Public procurement order no. P-45021/2/2017-BE-II dt.15.06.2017 & P-45021/2/2017-PP(BE-II) dated 28.05.2018,29.5.2019 & 04.6.2020, it is hereby certifying that we

.....

(supplier name) are .....(Class-I/Class-II) local supplier and will meet the requirement of minimum local content of ..... (50%/20%) as defined in public procurement order dated 04.6.2020 for material against Enquiry no.

.....

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

.....

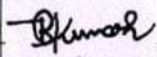
.....

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 & Signature of Supplier

MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM	BAR MATERIAL FOR TURBINE BLADES	QP NO.	QA/CF/QP/358	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
		REV.		REV.	02			M	B	N	
		DRG. NO.	-	Page 1 of 2							
		SPEC.	HW12784								
REV	AS PER PO										
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	8	9	D	10	11
1	2	3	4	5	6	7	8	9	D	10	11

1.	VACCUM INDUCTION MELTING	CHEMICAL COMPOSITION	MAJOR	SPECTRO ANALYSIS	EACH HEAT	HW12784	HW12784	TC		P	V	
2.	ELECTRO SLAG REMELTING (ESR) OR VACCUM ARC REMELTING (VAR)	CHEMICAL COMPOSITION	MAJOR	SPECTRO ANALYSIS	EACH HEAT	HW12784	HW12784	TC		P	V	
3.	ROLLING / FORGING					AS PER VENDOR'S PRACTICE		IR		P	-	-
4.	HEAT TREATMENT	TIME & TEMPERATURE	MAJOR	HT CHART	100%	HW12784	HW12784	TC		P	V	
5.	STRAIGHTENING	STRAIGHTNESS	MAJOR	STARIGHTNESS	100%	HW12784 & AS PER VENDOR'S PRACTICE		TC		P	V	TO BE PERFORMED IF REQUIRED
6.	HARDNESS TEST	HARDNESS	MAJOR	HARDNESS	10% PER HEAT PER HT BATCH OR MIN 10 BARS WHICHEVER IS MAXIMUM	HW12784	HW12784	TC		P	W	
7.	MECHANICAL TESTING	0.2% PROOF STRENGTH TENSILE % ELONGATION % REDUCTION IN AREA IMPACT	MAJOR	MECHANICAL TEST	HARDEST AND SOFTEST BAR PER HEAT PER HT BATCH	HW12784	HW12784	TC		P	W	

MANUFACTURER/SUBCONTRACTOR	 Digitally signed by INDRA BHUSHAN KUMAR Date: 2021.03.15 09:31:13 +05'30'	LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL NOM. INSPECTION AGENCY "TUV" (INDIAN VENDORS) THIRD PARTY INSPECTION AGENCY LRS/TUB/BV (FOR FOREIGN VENDORS) N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	
				APPROVED BY

2/18

SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
									M	B	N	
<p>MANUFACTURER'S NAME AND ADDRESS</p> <p>STANDARD QUALITY PLAN</p> <p>TO BE FILLED BY BHEL</p> <p>TO BE FILLED BY BHEL</p> <p>TO BE FILLED BY BHEL</p> <p>ITEM BAR MATERIAL FOR TURBINE            QP NO. QA/CF/QP/358</p> <p>DRG. NO. -</p> <p>REV. 02</p> <p>REV. 02</p> <p>SPEC. HW12784</p> <p>AS PER PO</p> <p>REV</p> <p>Page 2 of 2</p>												
BHEL	VENDOR'S NAME	DRG. NO.										

9	PROCESS QUALIFICATION FOR EACH FABRICATION FACILITY (FOR SUPPLY AS PER SPEC)											
	MECHANICAL TESTING IN EDGE POSITION	0.2% PROOF STRENGTH TENSILE ELONGATION IN AREA % REDUCTION IN AREA IMPACT HARDNESS	MAJOR	MECHANICAL TEST	AS PER SPEC	HW12784	HW12784	TC			P	W
	METALLOGRAPHIC EXAMINATION IN CORNER AND IN CENTER POSITION	GRAIN SIZE / MICROSTRUCTURE	MAJOR	HIC	HARDEST	HW12784	HW12784	TC			P	V
8	MECHANICAL TESTING IN AREA % ELONGATION IN AREA IMPACT HARDNESS	0.2% PROOF STRENGTH TENSILE ELONGATION IN AREA IMPACT HARDNESS	MAJOR	MECHANICAL TEST	AS PER SPEC	HW12784	HW12784	TC			P	V

9.1	METALLOGRAPHIC EXAMINATION IN LONGITUDINAL DIRECTION	GRAIN SIZE	MAJOR	HIC	AS PER SPEC	HW12784	HW12784	TC			P	V
10.	NDT	SURFACE DEFECTS	MAJOR	VISUAL	100%	HW12784	HW12784	TC			P	W
11.	MATERIAL IDENTIFICATION / VERIFICATION	CHEMICAL	MAJOR	SPECTRO	100%	HW12784	HW12784	TC			P	W
12	VISUAL & DIMENSIONAL CHECK	VISUAL & DIMENSION	MAJOR	VISUAL & MEASURE	100%	PURCHASE ORDER	PURCHASE ORDER	TC			P	W *
13.	IDENTIFICATION MARKING	MARKING	MAJOR	VISUAL	100%	HW12784	HW12784	TC			P	V

\*10% RANDOM

E1/n

MANUFACTURER/SUBCO	INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION	Digitally signed by INDRA BHUSHAN KUMAR Date: 2021.03.15 09:31:34 +05'30'
MANUFACTURER/SUBCO	N: CUSTOMER	
MANUFACTURER/SUBCO	THIRD PARTY INSPECTION AGENCY LRS/TUB/BV (FOR FOREIGN VENDORS)	

LEGEND: RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION  
M: MANUFACTURER / SUBCONTRACTOR  
B: BHEL NOM. INSPECTION AGENCY "TUV" (INDIAN VENDORS)  
N: CUSTOMER  
THIRD PARTY INSPECTION AGENCY LRS/TUB/BV (FOR FOREIGN VENDORS)

ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER

APPROVED BY

FOR CUSTOMER USE

**CORPORATE QUALITY ASSURANCE****SUB-VENDOR QUESTIONNAIRE**

i.	Item/Scope of Sub-contracting	
ii	Address of the registered office	Details or Contact person (Name, Designation, Mobile, Email)
iii	Name and Address or the proposed Sub-vendor's works Where item is being manufactured	Details or Contact person (Name, Designation, Mobile, Email)
iv	Annual Production Capacity for proposed item/scope Of sub-contracting	
v	Annual production for last 3 years for proposed item/scope Of sub-contracting	
vi	<b>Details of proposed works</b>	
1.	Year of establishment of present works	
2.	Year of commencement of manufacturing at above works	
3.	Details of change in Works address in past (if any)	
4.	Total Area	
	Covered Area	
5.	Factory Registration Certificate	Details attached at Annexure—F2.1
6.	Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design Details attached at Annexure (if applicable)
7.	Overall organization Chart With Manpower Details (Design/Manufacturing/Quality etc)	Details attached at Annexure-F2.3
8.	After sales service set up in India, in case or foreign sub-vendor (Location, Contact Person, Contact details etc.)	Applicable / Not applicable. Details attached at Annexure —F2.4
9.	Manufacturing process execution plan with flow chart indicating various stages or manufacturing from raw material to finished product including outsourced process if any	Details attached at Annexure — F2.5
10.	Sources of Raw Material/Major Bought Out Item	Details attached at Annexure— F2.6
11.	Quality Control exercised during receipt of raw material/BOI, in-process, final testing, packing	Details attached at Annexure— F2.7
12.	Manufacturing Facilities (List of machines, special process facilities, material handling etc.)	Details attached at Annexure— F2.8

**CORPORATE QUALITY ASSURANCE****SUB-VENDOR QUESTIONNAIRE**

13.	Testing facilities (List of testing equipment)	Details attached at Annexure— F2.9					
14.	If manufacturing process involves fabrication then-	Applicable Not applicable. Details attached at Annexure—F2.10					
	List of Qualified welders	(if applicable)					
	List of qualified NDT personnel With area of specialization						
15.	List of out-sourced manufacturing process with sub-Vendors names & addresses	Applicable Not applicable. Details attached at Annexure. —F2.II (if applicable)					
16.	Supply reference list including recent supplies	Details attached at Annexure-F2.12 (as per format given below)					
Project/Package	Customer Name	Supplied Item(Type/Rating/Model/Capacity/Size etc)	PO.ref no./date	Supplied Quantity	Date of supply		
17.	Product satisfactory performance feedback letter/certificates/End User Feedback	Attached at annexure - F2.13					
18.	Summary of Type Test Report (Type Test Details, Report NO, Agency, Date of testing) for the proposed product (Similar or higher rating) Note:-Reports need not to be submitted	Applicable / Not applicable Details attached at Annexure— F-2.14 (if applicable)					
19.	Statutory / mandatory certification for the proposed product	Applicable / Not applicable Details attached at Annexure— F-2.15  (if applicable)					
20.	copy of 9001 certificate  (if available)	Attached at Annexure- F-2.16					
21.	Product technical catalogues for proposed item ( if available)	Details attached at Annexure —F2.17					
Name:		Desig:		Sign:		Date:	

Company's Seal/Stamp:-







संस्थान क्रय विनिर्देश ( हीप - हरिद्वार )  
**PLANT PURCHASE SPECIFICATION**  
 (HEEP - HARIDWAR)

HW 12784

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 Page 1 of 7

हस्ताक्षर एवं दिनांक  
 SIGN & DATE

समसूची सूची संख्या  
 INVENTORY NO. TLV9520 10

समसूची सूची संख्या  
 INVENTORY NO. 07/2008

स्वत्वाधिकार एवं गोपनीयता  
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समसूची सूची संख्या  
 INVENTORY NO. P.4101

**BAR MATERIAL FOR TURBINE BLADES, NiCr20TiAl**

**1.0 GENERAL:**

The specification governs the quality of bars, rolled or forged for milled turbine blades in grade NiCr20TiAl (Material No. 2.4952).

**2.0 APPLICATION:**

Bars are required for blades used for turbine and compressor

**3.0 CONDITION OF DELIVERY**

Bars shall be supplied in hot rolled or forged and milled, heat treated condition. The bars should be straight and free from waviness.

**4.0 DIMENSION AND TOLERANCES:**

Dimension tolerance, straightness, twisting and bulging limits shall be as per HW0993008.

**5.0 GENERAL REQUIREMENTS:**

The manufacturer must demonstrate that it has implemented a quality system that meets the requirements stipulated in EN ISO 9000. The stipulations of the present purchasing specification apply for all the manufacturers' production shops, as well as their sub-suppliers. If the material is delivered for the first time, a process qualification according to clause 12.0 "Process qualification" must be performed. Separate process qualification is required for each facility of the manufacturer.

Before starting the production, the manufacturer shall provide BHEL a manufacturing and inspection sequence plan (MIP) for information after the successful process qualification. The MIP establishes the quality assured sequence of operations. Information on internal and external specifications is also given to BHEL in MIP. BHEL may view the manufacturer's internal MIP if he wishes to do so. The manufacturer has to inform BHEL about every change in the manufacturing or subcontractor process or inspection process. BHEL decides if a new qualification process is necessary. Subcontracting of any manufacturing steps is permissible only with BHEL written approval.

Also manufacturer shall submit test instructions for non-destructive and destructive testing which are performed as part of his own quality assurance measures. The test instructions shall include precise information on the tests, illustrated by sketch if necessary. General hints on other specification are not sufficient.

**6.0 MANUFACTURING**

**6.1 Melting**

The alloy shall be made by vacuum induction melting / electro-slag re-melting (VIM/ESR) or by vacuum induction melting / vacuum arc re-melting (VIM / VAR) process.

PSC	G.K. Sharma	16/06/20	नाम NAME	हस्ताक्षर एवं दिनांक SIGNATURE & DATE
TSX				
QAX	U.K. Panda	16/06/20	नुवादक TRANSLATED BY	
STE-TB	R.S. Singh	16/06/20	निर्माणकर्ता WORKED BY	SUBODH RANA
			जांचकर्ता CHECKED BY	ASHISH RANJAN
सहमत विभाग AGREED DEPTT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	पर्यवेक्षणकर्ता SUPERVISED BY	GOPAL KRISHNAN
स्वीकृति : संस्थान मानक समिति APPROVED : PLANT STANDARDS COMMITTEE			Gr. No	2.60
REV NO.	03		निर्माण PREPARED : MTE	जारी : मानक विभाग ISSUED : STANDARDS DIVISION
DI	18.06.2020			दिनांक DATE : 01.06.1993
CHANGE ADVICE NO.	MTE (MTE) - 2-167			



**संस्थान क्रय विनिर्देश (हीप - हरिद्वार)**  
**PLANT PURCHASE SPECIFICATION**  
**(HEEP - HARIDWAR)**

**HW 12784**  
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 Page 2 of 7

निर्माण एवं संस्कार  
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सुपरसेडस  
 INVENTORY NO.  
 शारीरी सूची संख्या की  
 संश्लेषित संख्या है

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**स्वसाधिकार एवं गोपनीय**  
 इस प्रलेख में दी गई सूचना भारत भारी इलेक्ट्रिकल्स की संपत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, को, लि कॉपी की तैयारी, या सुविधाकरण की न किया जाए।

निर्माण एवं  
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शारीरी सूची संख्या  
 INVENTORY NO.  
 P-4101

**6.2 Ingot Discard:**  
 Sufficient discard shall be made from each ingot to ensure freedom from piping, injurious segregation and other imperfections.

**6.3 Forging:**  
 The ingot conversion shall be conducted in such a manner as to produce substantially uniform structure throughout the forged bar. The manufacturing process of the bars can be rolling or forging.

**6.4 Heat Treatment:**  
 The forging shall be heat treated to get desired mechanical properties as per clause 7.2.1.  
 Solution treatment : 8 h at 1050 - 1080°C, Air cooling  
 Stabilizing: 24 h at 845°C ( ± 10°C), Air cooling  
 Precipitation hardening: 16 h at 700°C ( ± 10°C), Air cooling  
 The forming process and the solution treatment shall be chosen in such a way that over the whole cross section a homogeneous microstructure with a grain size of 3 to 6 according to ASTM E 122 will be reached. (See also 7.2.2)

**7.0 PROPERTIES AND TESTS:**

**7.1 Chemical Composition:**  
 Heat analysis in weight % (according to EN 10269 table 1) shall be as follows:

<b>C</b>	0.04 - 0.10	<b>Si</b>	≤ 0.30	<b>Mn</b>	≤ 1.00
<b>P</b>	≤ 0.010	<b>S</b>	≤ 0.010	<b>Cr</b>	18.0 - 21.0
<b>Ti</b>	1.80 - 2.70	<b>Ni</b>	Rest	<b>Co</b>	≤ 1.00
<b>Fe</b>	≤ 1.50	<b>Al</b>	1.0 - 1.8	<b>B</b>	≤ 0.008
<b>Cu</b>	≤ 0.20	<b>Ti + Al</b>	≥ 3.50		

**7.2 Position of test pieces:**  
 Specimen extraction is performed as per attachment 1. The specimens are to be taken in longitudinal direction. The positions of the specimens given in the attachment are meant to serve only as an example. Details concerning the locations of specimens, both at bar material and at bar material made of semi finished parts, are to be agreed upon by BHEL and must be given in the MIP, including a sketch of the specimen location.

**7.2.1 Mechanical Properties:**  
 It shall be ensured that the required mechanical properties are achieved throughout the entire bar cross section. The uniformity of the strength of the bars of a given delivery (per melt and heat treatment batch = test unit) shall be verified by a hardness test per EN ISO 6506-1. HBW 10/3000 or HBW 5/750 shall be used. Any other hardness test method shall be subject to prior agreement with BHEL. The hardness test shall be performed on 10% of each test unit, however on at least 10 bars, or if the test unit comprises less than 10 bars on every bar.

Mechanical properties shall be determined on the hardest and softest bar indentified by this test. Tensile testing shall be conducted according to EN 10002 resp. ASTM E8M (preferred round tension test specimen with L<sub>0</sub> = 50 mm and d<sub>0</sub> = 10 mm) or ASTM E8 (Standard specimen per fig. 8). Impact testing shall be performed with standard-test pieces with V-notch according to EN 10045. The following properties must be demonstrated at room temperature by the following tests:

REV	03	निर्माणकर्ता WORKED BY	Ashish Ranjan	20.9.11
		जांचकर्ता CHECKED BY	Gopal Krishnan	20.9.11



**संस्थान क्रय विनिर्देश (डीप - हरिद्वार)**  
**PLANT PURCHASE SPECIFICATION**  
 (HEEP - HARIDWAR)

**HW 12784**

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**Page 3 of 7**

दिनांक एवं हस्ताक्षर SIGN & DATE

SUPERSEDES INVENTORY NO.  
 वापसी सूची संख्या को प्रतिस्थापित करना है

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स्वत्वाधिकार एवं गोपनीय  
 इस दस्तावेज में की गई सूचना भारत भारती इलेक्ट्रिकल्स को, वापसी सूची संख्या में प्रस्ताव एवं अनुमति रूप से किसी भी तरह प्रयोग, जो कि कंपनी को हित में हानिकारक हो न किया जाए।

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0.2% proof Strength N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>	Elongation (Lo=5d) (%)	Reduction in area (%)	Impact Energy (J)	Hardness HBW
≥ 600	1000 - 1300	≥ 17	≥ 17	≥ 20 <sup>1)</sup>	≥ 260

<sup>1)</sup> Average of 3 Charpy V-notch specimens.

In addition a short time creep rupture test according to DIN EN 10291 or other agreed standard has to be carried out, using the following parameters:

Test temperature: T = 750°C  
 Proof stress σ<sub>0</sub> = 310 MPa

The following values have to be reached:

Creep rupture time t<sub>m</sub> ≥ 100 h  
 Elongation A<sub>u</sub> ≥ 4 %  
 Reduction of area Z<sub>u</sub> ≥ 4 %

If no creep rupture is occurred after 100 h, the proof stress can be increased for further 30 MPa after every 24 h, until the creep rupture occurred.

**7.2.2 Grain Size Check:**

The metallographic examination has to be carried out at the beginning and at the end of the hardest and softest bar and in each case in the corner and in the center of the cross section. A substantially homogeneous microstructure with a grain size 3 -6 according to ASTM E 112 has to be achieved in the cross section. A grain size DUPLEX ALA 3 according to ASTM E 930 is acceptable provided, that a grain size of 1 is not exceeded. A deviating microstructure has to be documented according to ASTM E 1181 and to be approved by the BHEL. Reduction of amount of testing can be agreed with the BHEL. For this purpose the manufacturer has to provide adequate results.

**7.2.3 Outer and Inner Quality / NDE:**


**7.2.3.1 Scope of Inspection:**

Following NDE shall be performed in delivery condition:

- Visual inspection of all bars
- verification test of all bars
- Complete ultrasonic inspection (UT) of all bars according to EN 10308 type 1a (table 1) or other agreed standard (e.g. AMS STD 2154) has to be carried out. The calibration block and the reference block have to be manufactured out of materials with similar acoustic properties and similar surface conditions. The test has to be performed only by employees with level 2 certified according to EN 473 or SNT-TC-1A.
- 100% PT of all bars without the face areas according to EN 571-1. It is permitted to carry out a UT with a double transducer probe in the near surface area instead of PT.

REV **03**

निर्मायकर्ता WORKED BY	Ashish Ranjan	<i>ARanjan</i>	20.09.11
जांचकर्ता CHECKED BY	Gopal Krishnan	<i>GKrishnan</i>	20.9.11


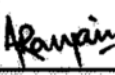
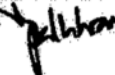
चिह्नक एवं स्वामित्व SIGN & DATE		<b>संस्थान क्रय विनिर्देश (डीप - हरिद्वार)</b> <b>PLANT PURCHASE SPECIFICATION</b> (HEEP - HARIDWAR)	<b>HW 12784</b> पृष्ठ का Page 4 of 7
स्वामिनी सूची संख्या का INVENTORY NO.	<b>7.2.3.2 Criteria for registration and decision:</b> a) Regarding UT inspection quality class 3 according to EN10308 (table 3) shall be applied. The decision limit for loss of back wall echo is 3 dB for all bar dimensions. The recording level is defined with > 1mm $d_{eq}$ . All indication $d_{eq} \leq 1mm$ are acceptable. b) PT: Indications $\geq 5 mm$ are unacceptable. Indications-free grinding excavations with depths $\leq 1mm$ are acceptable.		
स्वामिनी सूची संख्या का INVENTORY NO.	<b>8.0 MARKING:</b> Blades are to be marked as per attachment 2 and specification AA0400310. <b>9.0 DOCUMENTATION:</b> The supplier shall supply four copies of the test certificate 3.1 as per EN10204 unless and otherwise stated on the order. The test certificate shall bear the following information: <ul style="list-style-type: none"> <li>• Order no.</li> <li>• Specification no. / Material Designation</li> <li>• Heat Number, heat analysis and melting method</li> <li>• Complete information of all heat treatments performed</li> <li>• Results of mechanical testing, including a list with all measured hardness</li> <li>• Photos of microstructure with results of the grain size determination &amp; creep test report</li> <li>• Results of non destructive testing</li> <li>• Confirmation of the material identification check</li> <li>• Confirmation of the dimensional and visual check</li> </ul>		
स्वामिनी सूची संख्या का INVENTORY NO.	<b>10.0 CLEARANCE FOR DELIVERY:</b> The total results of the tests / checks carried out are the deciding factor for clearance for delivery, and hence shall be intimated to BHEL in advance. In case of nonconformance, BHEL evaluates the total results taking into consideration intended use of the material and examines accordingly the acceptability of deviation (if any). No material shall be delivered, if deviated, without acceptance by BHEL. The clearance, however, does not relieve the supplier of his responsibility for the hidden / unreported non-permissible defects which are found later.		
स्वामिनी सूची संख्या का INVENTORY NO.	<b>11.0 DEVIATIONS:</b> Deviations from this Purchase Specification, which arise during manufacturing, may be submitted to BHEL in writing, giving full details of the deviation. Acceptance of concession request will be at the sole discretion of BHEL.		
स्वामिनी सूची संख्या का INVENTORY NO.	<b>12.0 PROCESS QUALIFICATION:</b> A qualification review, performed jointly by the BHEL and supplier, is required before starting production for the first order. This initial process qualification is required for each fabrication facility of the manufacturer. The fabrication and inspection parameters stipulated during this phase form the basis of the manufacturing and inspection sequence plan (MIP) which the supplier prepares at his own responsibility. Manufacturing is commenced after the check of conformity by the purchaser and depends on the results of the qualification review, if necessary; the manufacturing parameters are to be further optimized. Unless otherwise stipulated by the purchaser, the process qualification shall also be required for the first three orders in addition. If desired, a process qualification can also be called for as verification of the reliability of fabrication.		
चिह्नक एवं स्वामित्व SIGN & DATE	REV 03		
स्वामिनी सूची संख्या का INVENTORY NO.	निर्माणकर्ता WORKED BY	Ashish Ranjan <i>A.Ranjan</i> 20.9.11	जांचकर्ता CHECKED BY
स्वामिनी सूची संख्या का INVENTORY NO.	Gopal Krishnan <i>G.Krishnan</i> 20.9.11		

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**स्वत्वधिकार एवं गोपनीय**  
 इस दस्तावेज में दी गई सूचना भारत देशी स्वामित्व के अंतर्गत है। इसका प्रयोग केवल BHEL के लिए ही किया जाना है। इस दस्तावेज को बिना BHEL की लिखित अनुमति के किसी भी प्रकार से प्रसारित नहीं किया जाना है।

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 24/9/11

स्वामिनी सूची संख्या का  
 INVENTORY NO.  
 P-4101

निर्माण एवं स्वीकार्यता SIGN & DATE		<b>संस्थान क्रय विनिर्देश (डीप - हरिद्वार)</b>  <b>PLANT PURCHASE SPECIFICATION</b> (HEEP - HARIDWAR)		<b>HW 12784</b> पृष्ठ का <b>Page 5 of 7</b>			
शपथी सूची संख्या की INVENTORY NO.	<p>In addition to the scope of testing and examination given in section 7.0 the following tests shall performed (also on the hardest and softest bar):</p> <ul style="list-style-type: none"> <li>• Mechanical tests also in the edge position of the cross section</li> <li>• Photos of the microstructure with results of the grain size determination in longitudinal direction</li> </ul> <p>All results shall be given in a detailed report to BHEL.</p>						
COPYRIGHT AND 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.	<p><b>13.0 CROSS REFERRED STANDARDS:</b>          EN ISO 9000, ASTM E122, EN 10269, EN ISO 6506-1, EN 10002, ASTM E8M, EN 10045, DIN EN 10291, ASTM E930, ASTM E1181, EN 10308, EN 473, EN 571-1, EN10204</p>						
स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में की गई सूचना भारत डी.ई. इलेक्ट्रिकल्स की संपत्ति है इसका प्रकाश एवं आशयता कर के बिना की जाये नहीं। जो कि कम्पनी के हित में अधिकारक हो न किया जाय।							
निर्माण एवं स्वीकार्यता SIGN & DATE	24/9/11						
शपथी सूची संख्या INVENTORY NO.	P-4101	निर्माणकर्ता WORKED BY Ashish Ranjan		20.09.11	जांचकर्ता CHECKED BY Gopal Krishnan		20.9.11



संस्थान क्रय विनिर्देश (डीप - हरिद्वार)  
**PLANT PURCHASE SPECIFICATION**  
 (HEEP - HARIDWAR)

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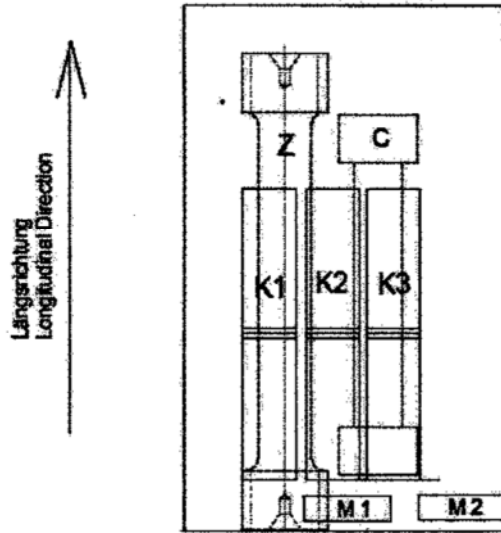
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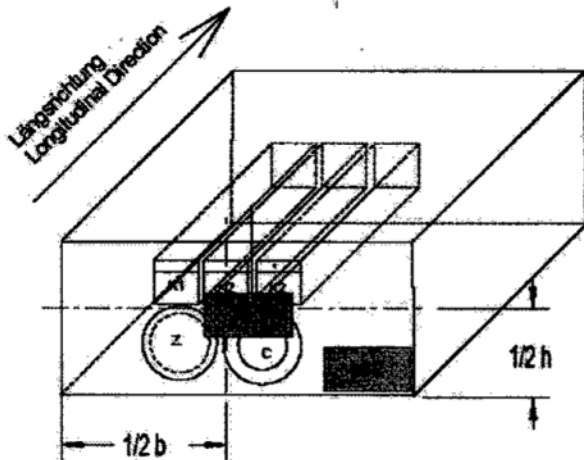
Attachment 1

**STANDARD TESTING**

Make sure that all specimens are located in the middle of material.



- Z: Tensile Specimen
- C: Creep test specimen
- K1- K3: Charpy impact specimen
- M1: Micro specimen (Cross Section)
- M2: Micro specimen (Cross Section)



24/9/11

REV 03

निर्माणकर्ता WORKED BY	Ashish Ranjan	20.09.11
जांचकर्ता CHECKED BY	Gopal Krishnan	20.9.11

SUPERSEDES INVENTORY NO.  
 सापेक्ष सूची संख्या की  
 अधिष्ठापित करता है

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**स्वास्वाधिकार एवं गोपनीय**  
 इस दस्तावेज में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं प्रसारण के बिना भारत भारती इलेक्ट्रिकल्स की लिमिटेड की अनुमति के बिना नहीं किया जा सकता है

दिनांक एवं  
SIGN & DATE  
 24/9/11

सापेक्ष सूची संख्या  
INVENTORY NO.  
 P-410/

**Attachment 2**

### Marking for Steel for Steam Turbine Blades

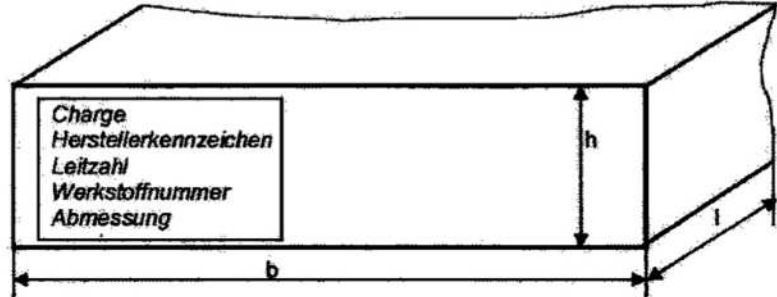
**Following details are to be marked on the blades:**

- Heat No.
- Manufacturer Name / Reference
- Purchase order No.
- Material No.
- Dimensions

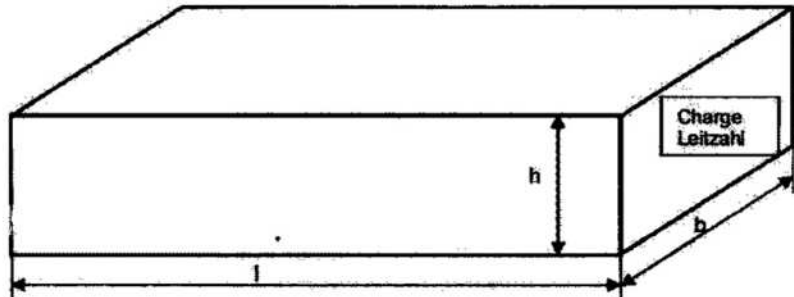
The identification marking shall be applied as follows:

**In Case of bars:**

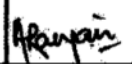
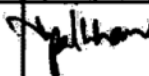
Marking of each individual bar at the front with details mentioned above.



In case of cut pieces (cut bars, rhomboids): with stamped figures, ink stamp or stickers/labels



h = Dicke, thickness  
 l = Länge, length  
 b = Breite, width

REV 03		निर्माककर्ता WORKED BY	Ashish Ranjan		20.09.11
		जांचकर्ता CHECKED BY	Gopal Krishnan		20.9.11



डॉक्यूमेंट सरवर पर मौजूद कर दी गई है।  
DOCUMENT RELEASED FROM SERVER/CTA

रस्ताक्षर दिनांक  
SIGN & DATE

डॉक्यूमेंट सरवर पर जमा कर दी गई है।  
DOCUMENT DEPOSITED IN SERVER

रस्ताक्षर दिनांक  
SIGN & DATE

संशोधन सूचना  
CHANGE ADVICE FORM



संशोधन सूचना संख्या  
CHANGE ADVICE NO.

जारीकर्ता विभाग  
ISSUING DEPTT.

उत्पाद का प्रकार  
TYPE OF PRODUCT

जोड़कर/जोड़ा  
रखने/संशोधन सं  
GMS / GRSP  
/CBOM No.

मुद्रण विवरण  
PRINT  
DELIVERY DATE

स्वीकृतिका  
APPROVED BY

TSX(CMTE)-20-167

MTE

PPS

TSX HOPALE KRISHNAN  
ADMM/MTTE

संशोधन सूचना संख्या REV. NO.	(8)	संशोधन संख्या REV. NO.	(9)	संशोधन का कारण कोड CODE FOR REASON OF CHANGE	(10)
संशोधित पृष्ठ संख्या REVISED SHEET NOS.	(7a)	संशोधन संख्या REV. NOS.	(8)	संशोधन का कारण कोड CODE FOR REASON OF CHANGE	(10)

संशोधन का विवरण  
DETAILS OF REVISION

जोड़ा है AS IT EXISTS (11)

जोड़ा है AS IT SHOULD BE (12)

संशोधन सूचना संख्या HEAD NO.	(13)	संशोधन सूचना संख्या VARIANT NO. OF CBOM/GMS/GRSP	(14)	टिप्पणी REMARKS	(15)
संशोधन सूचना संख्या HEAD NO.	(13)	संशोधन सूचना संख्या VARIANT NO. OF CBOM/GMS/GRSP	(14)	टिप्पणी REMARKS	(15)

HW 127144  
PREPARE 03  
+7  
REVIEW

Clause 4.0 modified.

224

CODES FOR REASON OF CHANGES:- 01- ENGINEERING ERROR INCLUDING D.O. ERRORS, 02- DESIGN UPGRADATION (INCLUDING ADDITION OF VARIANT), 03- DESIGN REVIEW INCLUDING CHANGES DUE TO CHANGE ADVICE IN OTHER DOCUMENTS, 04- TO MEET MANUFACTURING REQUIREMENTS, 05- TO MEET TECHNOLOGICAL MODIFICATIONS, 06- TO SUIT CUSTOMER DEMANDS, 07- TO SUIT STATUTORY REQUIREMENTS, 08 TO REPLACE DAMAGED, 09- TURN OUT ORIGINALS BY A FRESH ORIGINALS, 09- ANY OTHER

AGREED संशोधन

आभियंत्रिकी ENGG.	संशोधन तकनीकी	संशोधन गुणवत्ता	सिवा एवं सहायक विभाग	वेल्डिंग तकनीकी	केन्द्रीय संयंत्र प्रयोग	अन्य विभाग
आभियंत्रिकी ENGG.	संशोधन तकनीकी	संशोधन गुणवत्ता	सिवा एवं सहायक विभाग	वेल्डिंग तकनीकी	केन्द्रीय संयंत्र प्रयोग	अन्य विभाग

Agreed  
20/10/20  
Sugender  
04

संशोधन कार्य पर WORKED BY	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE
संशोधन कार्य पर WORKED BY	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE
संशोधन कार्य पर WORKED BY	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE

संशोधन कार्य पर WORKED BY	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE
संशोधन कार्य पर WORKED BY	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE
संशोधन कार्य पर WORKED BY	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE

संशोधन कार्य पर RECEIVED BY STANDARDS	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE
संशोधन कार्य पर RECEIVED BY STANDARDS	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE
संशोधन कार्य पर RECEIVED BY STANDARDS	नाम NAME	हस्ताक्षर SIGN	दिनांक DATE

HW0993008

पृष्ठ 2 का 1  
Page 1 of 2



# संस्थान मानक (हीप : हरिद्वार)

## PLANT STANDARD (HEEP: HARIDWAR)

(OWN EXPERIENCE)

### DIMENSION AND TOLERANCES OF BAR MATERIAL OF BLADES FOR SPECIFICATIONS HW10663, HW10670, HW10786, HW10687 & NICKEL BASED SUPER ALLOYS (HW12784, INCONEL 617M, NIMONIC 105 ETC.)

#### 1. Dimension & Tolerances:

The dimension shall be as per purchase order. Unless otherwise stated in the purchase order, length or bars shall be 2.5- 5 meters with maximum 10% short down to 1 meter.

Tolerance on thickness and width are as follows:

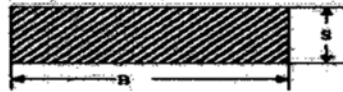


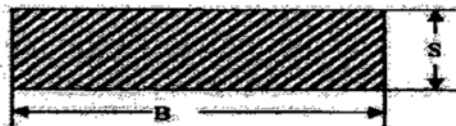
Table: 1.1 FOR HW10663, HW10670, HW10786, HW10687

B, width across flats (mm)	Max Allowable deviation on B, mm	S, Thickness (mm)	Max Allowable deviation on S, mm
$B \leq 35$	+1.5	$S \leq 20$	+1
$35 < B \leq 75$	+2	$20 < S \leq 40$	+2
$B > 75$	+3	$S > 40$	+3

Table: 1.2 FOR HW12784 (NIMONIC 80A), INCONEL 617M, NIMONIC 105 ETC.

B, width across flats (mm)	Max Allowable deviation on B, mm	S, Thickness (mm)	Max Allowable deviation on S, mm
$B \leq 75$	+1	$S \leq 40$	+1
$B > 75$	+1.5	$S > 40$	+1.5

Twisting and bending will be allowed as per following table:2



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स्वातंत्र्यधिकार एवं गोपनीयता का अधिकार है जो यह दस्तावेज भारत भारती उपकरण लिमिटेड के संपत्ति है, इसका प्रयोग एवं प्रसारण के बिना की जाये नहीं, जो कि कंपनी के हितों में हानिकारक हो, न किया जाये।

SIGN. & DATE: 06/06/20  
INVENTORY NO.: A 4123

MTE	ASHISH Prayaga	निर्माणकर्ता	WORKED BY	SANDIP CHAKRABORTY	दिनांक एवं हस्ताक्षर SIGNATURE & DATE
TSX	Sandeep Gupta Janda	जांचकर्ता	CHECKED BY	ANIL KUMAR	05/06/2020
STE-TB	R.K. Singh	स्वीकृतकर्ता	APPROVED BY	RAJIV KUMAR RAJAK	05/06/2020
QAX	U.K. Pandey	पर्यवेक्षणकर्ता	SUPERVISED BY	SANTANU BHOWMIK	5/6/2020
संयुक्त विभाग AGREED DEPTT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE			
स्वीकृति संस्थान मानकीकरण समिति APPROVED : PLANT STANDARDIZATION COMMITTEE					Gr. NO. 6.4
REV.NO. 01	DL		निर्माण : टी.बी.एम	ज़ारी : टी.स.एक्स	दिनांक DATE : 03.06.2020
CHANGE ADVICE NO.	TSX (TBM) 20-166		PREPARED : TBM	ISSUED : TSX	



# संस्थान मानक (हीप : हरिद्वार)

HW0993008

## PLANT STANDARD (HEEP : HARIDWAR)

पृष्ठ 2 का 2  
Page 2 of 2

**Table:2**

Condition	Bending	Twisting
B & S both $\leq 110$	1.5 mm/meter	1.5 mm/meter
B or S $> 110$	2 mm/meter	2 mm/meter

**Table 3: Straightness tolerances ( $q_{max}$ ) for rectangular section bar**

Straightness	Value of $q_{max}$ (mm)	Condition
	$(L \times 1.5)/2000$	B & S both $\leq 110$
	$(L \times 2)/2000$	B or S $> 110$

Bulging on the sides shall not be more than  $0.01 \times B$  &  $0.02 \times S$  respectively

**Table 4: Out of section tolerance for rectangular section bar:**

Out of section	Nominal Thickness (mm)	Tolerance(mm)
	$10 < S \leq 25$	$u \leq 0.5$
	$25 < S \leq 40$	$u \leq 1.0$
	$40 < S \leq 80$	$u \leq 1.5$
	$S > 80$	$u \leq 3.0$

2. Cross referred documents: HW10663, HW10670, HW10786, HW10687, HW12784 and EN10269.

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निर्माणकर्ता  
SIGN & DATE

सुपरीक्षणकर्ता  
INVENTORY

निर्माणकर्ता एवं सुपरीक्षणकर्ता  
SIGN & DATE

सुपरीक्षणकर्ता एवं सुपरीक्षणकर्ता  
SIGN & DATE

निर्माणकर्ता  
SIGN & DATE

सुपरीक्षणकर्ता  
INVENTORY NO.

REV. NO. 01

निर्माणकर्ता  
WORKED BY

SANDIP CHAKRABORTY

05/06/2020

जांचकर्ता  
CHECKED BY

ANIL KUMAR

05/06/2020

REV. NO. 01  
INVENTORY NO. P-4125


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SIGN & DATE

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DOCUMENT DEPOSITED IN SERVER

हस्ताक्षर दिनांक  
SIGN & DATE

संशोधन प्रश्न  
CHANGE ADVICE FORM



संशोधन सूचना संख्या  
CHANGE ADVICE NO.

जारीकर्ता विभाग  
ISSUING DEPTT. TBM

उत्पाद का प्रकार  
TYPE OF PRODUCT  
Turbine blade

संशोधन प्रकार  
CHANGE ADVICE NO. -

मुद्रण दिनांक  
PRINT DELIVERY DATE

स्वीकृतिकर्ता  
APPROVED BY

अभिकर्ता  
DESIGNATION (DRAWING No. etc) (7)

संशोधित पृष्ठ संख्या  
REVISED SHEET NOS. (8)

संशोधन संख्या  
REV. NO. (9)

संशोधन का कारण सूचक कोड  
REASON OF CHANGE (10)

संशोधन का विवरण  
DETAILS OF REVISION

संशोधन संख्या  
CHANGABLE HEAD NO. (13)

संशोधन/जीआर/जीआरएफ/जीआरएफ/जीआरएफ संख्या  
VARIANT NO. OF CBOM/GMS/GRSP (14)

अन्य संशोधन/जीआर/जीआरएफ/जीआरएफ संख्या  
OTHER CBOM/GMS NO./GRSP NO. WHERE APPLICABLE (15)

टिप्पणी  
REMARKS (16)

ROUTE (7a)

(7b)

2 01 (09)

AS IT EXISTS (11)

AS IT SHOULD BE (12)

AS IT EXISTS (13)

(14)

(15)

(16)

Superceded by new plant standard specification under the same number vide c/a No.. TSX(TBM)20166

CODES FOR REASON OF CHANGES:- 01- ENGINEERING ERROR INCLUDING D.O. ERRORS, 02- DESIGN UPGRADE/ADDITION (INCLUDING ADDITION OF VARIANT), 03- DESIGN REVIEW INCLUDING CHANGES DUE TO CHANGE ADVICE IN OTHER DOCUMENTS, 04- TO MEET MANUFACTURING REQUIREMENTS, 05- TO MEET TECHNOLOGICAL MODIFICATIONS, 06- TO SUIT CUSTOMER DEMANDS, 07 TO SUIT STATUTORY REQUIREMENTS, 08 TO REPLACE DAMAGED/TURN OUT ORIGINALS BY A FRESH ORIGINALS, 09- ANY OTHER

AGREED समति (20)							
अभियंता/TECHNICAL ENGG.	संशोधक/TECHNOL. GV	प्रमाणित/QUALITY	जिना एवं दूर/SHRIMP & T. DEPTT.	वेल्डिंग/TECHNOLOGY	कंप्यूटर संशोधन/CPM	अन्य विभाग/OTHER DEPTT.	
अभियंता/TECHNICAL ENGG.	संशोधक/TECHNOL. GV	प्रमाणित/QUALITY	जिना एवं दूर/SHRIMP & T. DEPTT.	वेल्डिंग/TECHNOLOGY	कंप्यूटर संशोधन/CPM	अन्य विभाग/OTHER DEPTT.	
रिलीज्ड/RELEASED BY STANDARDS (21)	नाम/NAME	हस्ताक्षर/SIGN	दिनांक/DATE	रिलीज्ड/RELEASED BY STANDARDS (22)	नाम/NAME	हस्ताक्षर/SIGN	दिनांक/DATE
रिलीज्ड/RELEASED BY STANDARDS (23)	नाम/NAME	हस्ताक्षर/SIGN	दिनांक/DATE	रिलीज्ड/RELEASED BY STANDARDS (24)	नाम/NAME	हस्ताक्षर/SIGN	दिनांक/DATE
रिलीज्ड/RELEASED BY STANDARDS (25)	नाम/NAME	हस्ताक्षर/SIGN	दिनांक/DATE	रिलीज्ड/RELEASED BY STANDARDS (26)	नाम/NAME	हस्ताक्षर/SIGN	दिनांक/DATE