



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

Tender No.: X/6620/2021/0338/F1

SUB: BHEL-HEEP/OPEN-TENDER (PRE-FAB. M/C & FAB. only of Stator Frame(Fab & M/c))

The Heavy Electrical Equipment Plant (HEEP) located in Haridwar, is one of the major manufacturing plants of BHEL. The core business of HEEP includes design and manufacture of large steam and turbo generators, condenser and so on.

NIT-Notice Inviting Tender

Salient Details of Notice Inviting Tender (NIT)		
Sl. No.	Issue	Description
1.	Item details	As per Enquiry Annexure <u>X/6620/2021/0338/F1</u>
2.	Issue of Tender Documents	From BHEL eProcurement website https://eprocurebhel.co.in/nicgep/app (Tender documents will be available for downloading from BHEL e-Procurement website till due date of submission)
3.	Due Date Of Offer Submission	Date: 28-01-2022 Time: 13:45 hrs https://eprocurebhel.co.in/nicgep/app <i>Offer to be submitted in online only through e-procurement Portal.</i> (Bidders are requested to visit website to view corrigendum/ addenda/ amendments/ extension/ modification etc. before submitting offer).
4.	Opening of Tender (Techno-Commercial Bid)	Date: 28-01-2022 Time: 14.00 Hrs Notes: <i>This tender being an e-tender, it shall be opened online only through the E-Procurement Portal. Participating bidders may witness the Opening online only.</i>
5.	Cost of Tender	INR 2000/- (If hard copy of tender document is required from BHEL otherwise not applicable.)
6.	EMD (Earnest Money Deposit)	Rs. 100,000.00
7.	Schedule Of Pre-Bid Discussion	Not Applicable
8.	Integrity Pact & Details of Independent External Monitor (IEM)	Not Required
9.	Latest Updates	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL e-tender portal https://eprocurebhel.co.in/nicgep/app and not in the newspapers. Bidders to keep themselves updated with all such information

Please submit your offer only for the above requirement subject to our **GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (Version: June-2021, Rev.06)**. Please visit our site 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.



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Tender Fee & EMD (If Applicable) will be submitted in the form of Pay Order / Demand Draft (drawn in favor of 'BHEL HARIDWAR') only. It may be noted that if hard copy of any tender document is required, then the same may be collected against copy of Pay Order / Demand Draft of requisite tender fee (while original to be submitted with Part-I).

If EMD is not submitted along with the offer, then the offer may not be considered.

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 Udyog Aadhar (UAN)/Udyam Certificate/NSIC/EM (Part-II) etc. issued from competent authority shall be submitted in support of Micro & Small Enterprises (MSEs).

“As per the OM No. F. No. 1(2)(1)/2016-MA dated. 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.”

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

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.

INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER

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

ESSENTIAL INSTRUCTIONS

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. Techno -Commercial Bid along with PQR (duly filled in, signed and stamped).
2. Tender Fee & 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.)

Part II (Cover-2) - Containing Price Bid in attached Format

Bidders against tender will necessarily have to obtain class – III DSCs. Procedure for application available on www.bhel.com.



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E-Procurement Portal Inputs

Procedure for Submission of Offer for E – Tender-Procedure for Submission of Tender is available in the “Bidder Manual for BHEL Bidders” at E-tender portal <https://eprocurebhel.co.in/nicgep/app> . Terms and conditions mentioned therein shall form integral part of the NIT and bidders shall abide by the same.

Hardware and Software requirements for participating in e-tender

Please refer the website for the minimum system requirements and setting document for Bidders under the link: <https://eprocurebhel.co.in/nicgep/app>

Digital Signature

To know the procedure for obtaining Digital Signature Certificate (DSC), suppliers who are not having the DSC are advised to visit our website [http://www.bhel.com/home.php/Tender Notifications/Sample Checklist](http://www.bhel.com/home.php/Tender%20Notifications/Sample%20Checklist).

NIC portal Helpdesk Contacts

For any technical related queries please call at 24 x 7 Help Desk Number

0120-4001 002

0120-4200 462

0120-4001 005

0120-6277 787

International bidders are requested to prefix 91 as country code

Email Support

Address: A) For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority

Technical - support-eproc@nic.in

Note

Offers/tenders submitted in the E-tender portal shall only be considered for further evaluation. Offers sent by FAX / E-mail / any mode other than E-tender would not be entertained.

The Tenderers must submit their Tenders, as detailed below:

SPECIAL NOTE: All documents to be submitted should be uploaded in respective places in the E-Tender portal as per the list mentioned given in this NIT. BHEL shall not be responsible for incomplete documents.



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PQR

Item : Stator Frame (Pallamaru, drg 02510689603-00)

PRE-QUALIFICATION REQUIREMENT

01.00	TECHNICAL REQUIREMENT	Required	Offered	Remarks
01.01	Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of atleast 1 nos. Stator Frame or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Diameter 10000 mm and Height= 3000 mm and above. ii) Lifting facility and capacity at vendor works should EOT crane 35 Tons and above. Sufficient Hook height to suit job requirements iii) Vendor must have levelled bed size to fabricate and accomodate job of dimensions: Diameter 10000 mm, and Height=3000mm and above to fabricate the job. iv) Vendor must have cutting facility to achieve profile as per drawing for accomadating plate of Dimension ;Length3200 mm,width 1500 mm thickness 56mm and above. v) Vendor must have bending facility to bend thickness 16 mm,width 800mm, or above vi) Vendor must have machining facility (drilling-of the order of dia 90mm depth 115 mm,milling etc.) in order to meet the pre-fabrication machining requirement as per drawing. vii) Vendor must have suitable WPS/PQR and qualified welders for welding approved by third party and submit documentry evidence along with offer.	Vendor to Comply & submit suitable evidence including technical specifications, technical brochure, photographs etc. of the facilities.		
01.02	Vendor to furnish certificate against clause 01.01 from the customer / company or end user duly confirming that fabricated Stator Frame or equivalent job was supplied and used for Hydro Motor or Generator/power plant/capital goods/infrastructure application OR vendor to submit documentary evidence as per clause 1.03	Vendor to Comply & submit suitable documents		
01.03	Vendor to furnish name of customer/company with complete contact details and month /year of previous supply along with copy of PO, type of manufacturing facility used for fabrication (assembly/welding/pre-fabrication machining), supply documents, payment details (invoice copy) and inspection documents of supplied Stator Frame or equivalent.	Vendor to Comply & submit suitable documents		
01.04	All PQR documents are to be stamped and signed in original by Vendor. In case documents and official stamp is in language other than English, documents and details of official stamp are to be translated in English and duly certified by Government agency/approved agency of Government/Embassy.	Vendor to Comply & submit suitable documents		
01.05	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, their offers shall be rejected.	Vendor to agree		

NOTE: PQR is not restrictive

Abhishek
12.01.22
Abhishek Prasad
SE, WT

Noted
12/01/22
Noted to Chand
(Ngr, WTX)

BS
12.01.2021
(BS Arora)
AGN-W7



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Terms & Conditions for PRE-FAB. M/C & FAB. only of Stator Frame (Fab & M/c)

The item name and drawing no. mentioned in the enquiry is for reference & will be available for ordering. A sample of Combined Bill of Materials and all reference drawings are also enclosed for having a general idea of the tender.

1. SCOPE OF WORK: -This enquiry is for PRE-FAB. M/C & FAB. only of Stator Frame (Fab. & M/c) with BHEL Material as per drawing, Quality Plan & other specifications exclusively with BHEL Material.

Sl. No.	Item Description	Drg. No.	Qty.
1.	STATOR FRAME (FAB & M/C)	02510689603-00	03 Nos.

Remarks :-

1.1) FOR STATOR FRAME (FAB & M/C), Drawing No. 02510689603-00, WITH BHEL MATERIAL, WEIGHT/PIECE: 28900 Kg.

1.2)

- CLEANING OF JOB AT BHEL IS IN THE SCOPE OF VENDOR.
- PAINTING IS IN THE SCOPE OF BHEL.
- FINAL ACCEPTANCE OF JOB AFTER SUCCESSFUL CONTROL MARKING AT BHEL.
- TECHNOLOGICAL SUPPORT WILL BE IN THE SCOPE OF VENDOR.
- SR/SB (IF ANY) WILL BE IN THE SCOPE OF BHEL.
- DRAWINGS TECHNICAL REQUIREMENTS SHOULD BE FOLLOWED WHILE MANUFACTURING THE ITEMS.

➤ **Total load for the open tender enquiry (Approximately) = 28900(Kg) x 3 (Nos.) = 86700 Kg.**

- The rate (s) should be quoted in Rupees/Kg.
- Quality plan (QP) to be followed for Material induction and CHP.
- Only BHEL/LLOYD approved qualified welders/machinist must be employed on the job.
- Only BHEL approved Brands of Electrodes / consumables/Tools to be used.
- Any assembly, welding & NDT work as per drg/QP, if reqd. after SR/SB including customer clearance shall be done by supplier at BHEL.
- Vendor should submit manufacturing plan incl. Weld Plan & Technology support plan to Welding Technology & get it cleared prior to start of assembly.
- Vendor should get the fit up of weld joints checked from Welding Technology prior to start of the welding.
- Cleaning of parts, removal of mill scale from components prior to assembly will be in scope of vendor.
- CHP Clearance may be obtained from NTPC/LLOYD/RITES/NPC at party's end.
- Final Assembly shall undergo cleaning to ensure that all parts are free from dents, mills, spatters.
- Customer's seal (if Any on supplied Material) to be transferred.
- Copies of the relevant certificates to be supplied to the receiving shop.
- All special tests viz. UT, RT, Hydraulic & Kerosene etc. are to be performed as per drg. Requirements.
- Aesthetic appearance shall also be ensured and inspected before delivery to BHEL.



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2. VALIDITY: -

The validity of offers by vendors should be at least for a period of 90 days for this enquiry from the date of enquiry opening.

3. SUBMISSION OF OFFERS: -

The offer is to be submitted in two parts.

- 3.1 The tenders shall be submitted in two parts in separate sub-envelopes clearly super scribing type of bid, tender no., due date and the name of vendor with full contact details.
Part I – Tender fee (if hard copy insisted from BHEL), Pre qualifying conditions (PQR), Techno Commercial Bid (It should be the copy of Price Bid without the price part) along with the filled in, signed and stamped annexures uploaded along with the Tender Document.

Part II – Price Bid.

Part I –

- A. Will be opened on the date and time specified in the tender notice in the presence of those vendors who wish to attend.
B. Will cover the reply of all points of the enquiry except prices in sealed envelope superscribing on the envelop TECHNO-COMMERCIAL OFFER, the enquiry reference number and date of opening etc.

Part II - Price Bids along with supplementary price bids, if necessary, will be opened at a later date of only those bidders whose PQR and Techno Commercial bid will be found acceptable. The price bid is to be submitted in a format as per Annexure-A duly signed by the authorised person of the firm with rubber stamp in the space provided.

- 3.2 Part-II will comprise of price bid in separate sealed envelop super-scribing PRICE-BID, the enquiry reference number and date of opening etc.
3.3 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).
3.4 Both the sealed envelopes (Part-I & Part-II) should be placed together in a single envelop Duly sealed super scribing on the envelop "TWO PART BID" with enquiry reference number and date of opening of tender. BHEL will not be responsible for any type of delay in receipt of the tender.
3.5 BHEL reserves the right to reject any or all the tenders either in full or part thereof without assigning any reasons thereof.

4. DELIVERY: -

F.O.R.: HEEP, BHEL Haridwar.

5. DELIVERY SCHEDULE: -

Sl.	Item Description	Drg. No.	Qty (Nos.)	Delivery
1.	STATOR FRAME (FAB & M/C)	02510689603-00	03	Within 60 days from Last Material Sent from BHEL to Vendor

Note :- In case the delivery offered by any vendor is more than 60 days from Last Material Sent from BHEL to Vendor, loading shall be done @ 0.5% per week on the rate quoted by the vendor.



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6. INSPECTION: -

- The inspection will be carried out by BHEL/BHEL nominated inspection agency at Party's works. All facilities and equipment's, calibrated instruments and standard gauges required for inspection shall be provided by the vendor during inspection. In some cases, inspection by customer's representatives like NTPC/RITES etc. (excluding NPC) may also be carried out at Party's works and CHP clearance may be obtained. No additional charges will be paid on this account.
- The party is to follow system for material control, if applicable, as per BHEL Quality Control system.
- Identification marks shall be punched on each item by the vendor i.e. Purchase Order No., Drawing No., IR No. etc.
- Aesthetic appearance is to be maintained as per drg. requirement.
- Ordering shall be done on BHEL Haridwar agreed / approved sub-contractors only.
- Inspection by BHEL/BHEL nominated inspection agency as per drawing /Standard and quality plan requirements.
- **Quality plan no. QP/QA/216141 rev 00 dated 15.12.2021 is attached, which is to be followed.**
- Remote inspection shall be preferred in place of physical inspection by BHEL/BHEL nominated inspection agency (Due to COVID 19 situation). Remote inspection guidelines are attached. Sub-contractors to offer both remote inspection and physical inspection. BHEL reserve the right to select anyone.

7. PAYMENT TERMS: -

- 7.1 90% after acceptance & final clearance of SRIV.10% after FTS and final account of material.
- 7.2 No packing and forwarding charges will be paid extra.
- 7.3 In case of rejection, total cost of material will be recovered in case of BHEL Material and no labour cost will be paid.

8. LD CLAUSE: -

@ 0.5% per week subject to max 10% for the delayed portion of supply. The entry date mentioned by CISF on the challan at BHEL material gate will be taken as material receipt date.

9. GST: -

- As applicable against documentary proof. Mention HSN/SAC code & applicable %age of GST.
- 9.1 The bidder to specify in their offer (part 1 bid) the category of their registration under GST like Registered, Unregistered and composite dealer.
 - 9.2 The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Electricals Equipment Plant, Ranipur, Haridwar is '05AAACB4146P1ZL' with state Code as '05' and State Name as 'Uttarakhand'.
 - 9.3 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.
 - 9.4 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.
 - 9.5 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.



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- 9.6 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 account.
- 9.7 In the event of any change in the status of vendor after 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.
- 9.8 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.

10. EXTRA/LESS RATES: -

- In case, extra/less work is required due to change in Drawing / any deviation in fabricated weight at a later stage (duly verified by our Engineering Dept.), extra charges may be paid/deducted and purchase order will be amended.
- In case extra/less work is required due to change in Drawing/ technology / extra joints (owing to non-availability of required size of raw material) / defects like laminations if any on BHEL supplied plates etc. / any deviation in fabricated weight (duly verified by WT), extra/less charges will be paid and purchase order may be amended accordingly.
- Amendment due to changes in drg. /CBOM weight will be applicable only if changes are made before supply of material or changes which are under process is provided to vendor in writing by Engg. or AIX before supply of material by vendor.

11. Reverse Auction: -

"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for 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."

Following are some guidelines:

- Start price for RA to be L1 of e-bid/ sealed envelope price bids.
- Minimum two techno-commercially qualified bidders are required to conduct RA.
- Wherever six or more techno-commercially qualified bidders are available, RA would be conducted amongst first 50% of the bidders arranged in the order of prices from lowest to highest. Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of techno-commercially qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst lowest four bidders). However, there will be no elimination of bidders who are MSE or qualifying under PPP-MII Order, 2017.

For detailed terms and conditions of RA guidelines, kindly refer www.bhel.com.

All vendors will be assessed on total cost to BHEL basis that includes freight, taxes, ITC etc.



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12. Following MSE conditions shall be followed: -

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). Non submission of such documents will lead to consideration of their bid at par with 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.

* 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: -

a. Valid NSIC Certificate or

b. Entrepreneurs' Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) or

c. EM II certificate along with attested copy of CA Certificate (as per prescribed format at annexure 1) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over. However, credentials of all MSE supplier will be verified before advancing the intended benefits.

* MSE vendors 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.

* In case techno-commercial accepted vendors include MSE source and their prices (based on landed cost to BHEL) are within the price band of 15% w.r.t. L-1 vendor, then BHEL can offer 25% of quantity of respective item (rounded off to nearest number) to MSE vendors at L-1 price and in case, more than one MSE vendor is in 15 % band and the same is accepted by more than one MSE vendors then 25% quantities of respective items will be considered for ordering on proportionate basis amongst MSE vendors.

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

* In case there are more than one MSE vendors (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 vendor with lowest landed cost.

* In case there are more than one MSE vendors (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 favourable terms in the bid and in case terms are also same, the vendor with high SPR rating shall be given preference.

13. PRICE VARIATION CLAUSE: - No PVC is applicable for this enquiry.



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- 14. BANK GUARANTEE (BG)& INDEMNITY BOND(IB):** - 25% Bank Guarantee and 75% Indemnity Bond for the value of materials to be given by vendor for free issue materials. Material value will be calculated on PPMIV/Challan value basis. On intimation from BHEL regarding BG&IB, the same shall be provided by the vendor(s) within 15 days. If suitable BG and IB are not submitted to BHEL within 15 days of intimation, the delivery period shall be deemed to have commenced and applicable PO amendment will be issued accordingly.
- 15. GUARANTEE CERTIFICATE:** -
The vendor shall warrant that the supplied fabricated assemblies comply fully with the drawings and other technical conditions. If the fabrications/items are found defective owing to faulty workmanship/incomplete work within a period of eighteen (18) months from the date of dispatch, the vendor shall make good of it/replace the same free of cost. Alternatively, the rework/replacement charges will be recovered.
- 16. GENERAL INSTRUCTIONS:** -
- 16.1 No further sub-contracting to third party or sister concern by the sub-contractor is allowed Without prior permission of BHEL. If found guilty, will be debarred.
- 16.2 BHEL reserves the right to suspend/cancel the PO/Enquiry unilaterally without any financial repercussions, if Sub-contractor's performance is not found to be satisfactory.
- 16.3 BHEL reserves the right to revise the drawing after placement of purchase order. The prices in the purchase order will be amended according to revised drawing.
- 16.4 Subsequent ordering shall be done based on performance and execution of orders in time as per PO. Delivery.
- 16.5 In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from respective L1 bidders. In case more than one bidder happens to occupy the L1 status even after soliciting discounts, the L1 bidder shall be decided by toss/draw of lots, in the presence of respective L1 bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situation shall be final and binding.
- 16.6 Vendor must fill in the rate per Kg. in Annexure-A and put in the Price Bid envelop.
- 16.7 EMD submission may be waived for Central/State-PSUs/Government departments.
- 16.8 **MSE suppliers are exempted for submission of EMD & Tender Fee.** Udyam certificate is mandatory to be submitted in Part I (Techno-cum commercial) bid along with the Annexure to avail MSE benefits.
- 16.9 As per the Office Memorandum F.No. 1(2)(1)/2016-MA dated 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.
- 16.10 Vendors to submit un-priced price bid in same format as price bid along with technical bid.
- 16.11 Open tender is hoisted on the websites and no hard copy of document is provided by BHEL, no tender fee shall be insisted upon from the bidders.
- 16.12 Central / State – PSUs / Government departments are exempted from submission of EMD subject to approval by BHEL management.
- 16.13 Please refer general instructions and standard terms & conditions (GISTC) for bidding against



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tender enquiry (version June-2021, Rev:06) the bidder/vendor must ensure compliance of these GISTC (version June-2021, Rev:06).

- 16.14 Unregistered vendors may please visit our site www.bhel.com for filing up the Supplier registration Form against the item in this enquiry.
- 16.15 **Documents submitted with the offer/bid by the bidder shall be signed and stamped in each page by authorized representative of the bidder.**
- 16.16 **PQR uploaded with the tender document is to be submitted along with the Techno-Commercial offer (PART-I).**

Note :- Offer shall be entertained only after submission of duly filled, signed and stamped PQR and relevant documents. Offers of the vendor(s) not submitting this Annexure may be ignored.

- 16.17 The evaluation currency shall be INR (Indian Rupee).
- 16.18 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.
- 16.19 For this procurement, Public procurement (preference to Make in India), Order 2017 dated 04.06.2020 shall be applicable.

For this procurement, the local content to categorize a supplier as 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 the nodal ministry, changing the definition of local content for the items of NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of part-II bids against this NIT.

As defined under public procurement (Make in INDIA) notification dated 04.06.2020, only the 'Class-I local supplier' and 'Class-II local supplier' are eligible to bid against this enquiry. Hence bids of non-local supplier (if any) will not be considered.

Accordingly, the 'Class-I local supplier' / 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate the 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' and shall give details of the location(s) at which the local value addition is made.

Procurements where the Estimated value to be procured is less than Rs. 5 lakhs shall be exempted from Public Procurement (Preference to Make in India) Order 2017 dated 04.06.2020.

- 16.20 Vendor Contract clause regarding GST ITC and provision for E-Invoices:
- (i) E-Invoicing under GST is being implemented w.e.f. 01.10.2020 for all the taxable persons having turnover more than Rs. 100 Cr. 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.
 - (ii) 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



BHARAT HEAVY ELECTRICALS LIMITED
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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.

- 16.21 Bidder to necessarily submit duly filled in, signed and stamped Annexures (attached alongwith the tender document.**
- 16.22 In case of ordering against the tender, vendor should submit their invoices against goods and services immediately after supply of goods & services but not later than 30 days from the invoice date. In case of delay, consequential losses like loss of input credit and non-availability of concessional forms etc. shall be to the vendor account.
- 16.23 The bidders against open tender will necessarily have to obtain class – III DSCs. Procedure for application is available on www.bhel.com.
- 16.24. **RECTIFICATION:-** Any defect (noticed at Shop) arising out of the fabrication/machining done by the Sub-Contractor, will have to be rectified or items replaced by the sub-contractor within 10 days at their own cost. Otherwise BHEL will be free to take necessary action as deemed fit and consequence/cost of the same will be to subcontractors-account.
- 17. SPLITTING ARRANGEMENT/LOAD DISTRIBUTION:** In the ratio 2:1 between L-1 & another vendor as per load distribution below:

<u>Load distribution:</u> Open Tender Enquiry no. X/6620/2021/0338/F/1								
ITEM DESCRIPTION	DRG. NO.	TOT. QTY (NO.)	WEIGHT / PIECE (KG.)	TOTAL WEIGHT (KG.)	QTY. ON L-1 VENDOR		QTY. ON L-2 VENDOR	
					QTY. (NO.)	TOTAL WEIGHT (KG.)	QTY. (NO.)	TOTAL WEIGHT (KG.)
STATOR FRAME (FAB & M/C)	02510689603-00	3	28900	86700	2	57800	1	28900
			TOTAL	86700		57800		28900
Load distribution shall be done after counter offering finalized L-1 rates of item to L-2 vendor. If L-2 vendor does not accept the counter offered rate, then subsequent vendors (L-3 to L-n (n is number of qualified vendors)) shall be counter offered the finalized L-1 rates in sequential order.								
If any of L2, L3,...Ln vendors do not accept the c/offer rate, the L-1 vendor shall be approached for quantity discount for that additional quantity.								

18. TRANSPORTATION: -

BHEL will send raw material to vendor works on freight paid basis and vendor to deliver fabricated/machined item(s) to BHEL Haridwar at their own cost.



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19. SCRAP: -

- Generated scrap is to be retained by the sub-contractor. This scrap is chargeable. The scrap rate will be calculated based on the monthly market scrap price Published in MSTC Bulletin/any other document under category of scrap MELTING SCRAP. The date of receipt of material will be considered for calculating the scrap value as applicable for that month. The calculated monthly price for charging scrap will be rounded off to two decimal places of Rupee. GST charges on scrap shall also be applicable.
- BHEL would recover the amount of GST and Trade Tax as applicable from the sub-contractor's account in lieu of scrap retained by them. The difference between raw material weight and finalized weight shall be considered for the calculation of scrap generation.
- A 3% invisible cutting allowance shall be given on the finished weight.

20. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

Vendor to submit the Terms and Conditions duly filled in and signed alongwith the stamp as per Annexure attached.

Against vendor's replies, BHEL reserves the right to ask for more information/ documents / clarifications. Vendor's offer shall not be considered if vendor fails to furnish the document / information / clarifications as mentioned above or doesn't meet the acceptance criteria.

Amendments/Corrigendum, if any, will be hosted on our web site only. Other terms and conditions will be as per tender documents.

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 outrightly rejected.

In view of Covid-19 and present situation the Tender Document, Drawings, P.O copy etc. shall be sent by e-mails and shall not be sent in hard copies. Vendors to kindly note that the details sent by e-mail shall be considered for delivery against the finalized contract(s)/ P.O's placed .

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.**

Unregistered vendors may please visit our site www.bhel.com for filing up the Supplier Registration Form.

KINDLY READ “TERMS & CONDITIONS FOR PRE-FAB. M/C & FAB. ONLY of STATOR FRAME (FAB & M/C). QUOTATION NOT IN ACCORDANCE WITH THE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.



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Annexure - A

PRE-FAB. M/C & FAB. ONLY OF STATOR FRAME (FAB & M/C)

Drawing No. 02510689603-00, Qty: 03 Nos.

OpenTender Enquiry No.: X/6620/2021/0338/F1

MATERIAL BY	RATE (Rs. PER Kg.)
BHEL MATERIAL (BM)	

Authorised Signature :

(with date & seal of company)

Name of Supplier :-



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Annexure B

TERMS AND CONDITIONS FOR Enquiry No.X/6620/2021/00338/F/1

SL.	TERMS	VENDOR'S ACCEPTANCE/ REMARKS
1	Scope of Work: -_PRE-FAB. M/C & FAB. is to be carried out by the vendor as per Drawing/Standard, QP and Technical requirements. Technical specification and conditions of supply on one/multiple vendors.	
2	Validity: Quotation is valid for a minimum period of 90 days from date of opening of enquiry.	
3	Submission of offers (clause no. 3.1 to 3.5 of Terms and Conditions)	
4	Quoted rates are on F.O.R. sub-contract store, HEEP, Haridwar basis.	
5	Delivery schedule: Within 60 days from Last Material Sent from BHEL to Vendor	
6	Inspection shall be done as per clause no. 6 of Terms and Conditions of Enquiry	
7	Payment Term: 90% after acceptance & final clearance of SRIV.10% after FTS and final accountal of material.	
8	Penalty for late deliveries:- LD clause is applicable@0.5% per week or part thereof with a maximum limit of 10% of the delayed portion of the PO. Loading of penalty for the purpose of comparison shall be done to the extent if same is not agreed.	
9	GST: GST shall be applicable against documentary proof. Input Tax Credit shall be applicable and BHEL can claim benefit as per clause 9 of T & C of enquiry.	
10	Amendments of Extra/Less rates as per clause no. 10 of Terms and Conditions of Enquiry.	
11	Reverse Auction: We accept Reverse Auction(RA) clause as per standard policy of BHEL.	
12	MSE Condition: - Udyam certificate is mandatory to be submitted in Part I (Techno-cum commercial) bid along with the Annexure to avail MSE benefits.	
13	Price Variation clause (PVC) is not applicable	NOT APPLICABLE
14	Bank Guarantee/Indemnity Bond: 25% BG & 75% Indemnity bond (for the value of materials) to be given by vendor for free issue materials.	
15	Guarantee Certificate shall be valid for 18 months from receipt of material in BHEL.	
16	We have read clause no. 16 of terms and conditions of Enquiry and confirm to abide the same.(Clause 16.1 to 16.24)	



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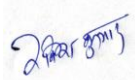

17	Transportation: Confirm acceptance of clause 18 of T & C. Manufactured items shall be despatched by BHEL approved transporter only and Insurance shall be borne by BHEL.	
18	Scrap : Confirm acceptance of Clause 19 of T & C of Enquiry.	
19	Option Clause: Confirm acceptance of clause 20 of T&C of enquiry.	
20	Risk Purchase Clause: We accept Risk Purchase clause as per standard policy of BHEL.	
21	Framework Confidentiality Agreement-cum-undertaking: We accept the terms of FCA as per annexure to the enquiry and signed & stamped copy is attached.	
22	We have submitted Make in India certificate (duly filled and signed as per Annexure).	
23	Rates have been quoted in Indian Rupees on per Kilo Gram basis.	

Note: BHEL reserves the right to reject any or all the offers (on techno-commercial ground) without assigning any reason thereof.

(Vendor's signature with Stamp)

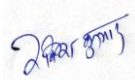

Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO		
		ITEM/ EQUIPMENTS	STATOR FRAME(FAB & M/C)					Q.P. NO	QP/QA/216141					
								DATE	15.12.2021					
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR		
								PAGE NO.	1 of 3		Indent	20210338 rev 00 dated 14.12.2021		
Sl. No.	COMPONENT OPERATION	CHARACTRISTIC CHECKED	CATEGORY	TYPE/ METHOD OF CHECKED	QUANT-UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE DOCUMENT	FORMAT OF RECORD	D	AGENCY			REMARKS	
										M	B	C		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

1	Material Receiving Inspection	Verification of identification of BHEL materials.	Major	Visual inspection	100 %	As per drg./ Standard	As per drg./ Standard	Record	V	P	V	-	For BHEL material, transfer of identification to be ensured.
2	IN PROCESS-INSPECTION												
2.1	NDT	NDT of raw material as per drawing requirements, wherever applicable	Major	NDT	As per drg.	As per drg./ Standard	As per drg./ Standard	Test report	V	P	W	-	
2.2	WPS, PQR & WPQ Qualification	Scrutinizing	Major	Record check	100%	ASME SEC IX	ASME SEC IX	Test Report	-	P	V	-	BHEL /BHEL approved agency WPS/PQR/WPQ shall be used
2.3	Marking, Cutting & Edge Preparation	i) Marking	Major	Marking check	100 %	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	

Manufacturer/Subcontractor		Legends: P Perform by; W Witness by; V Record review; C Customer; B BHEL/BHEL Representative; M Manufacturer/ sub-contractor; D: Documents with tick mark shall be submitted by vendor to BHEL.	For BHEL Use  रवीश कुमार चंदेल वरिष्ठ अभियंता गुणता आश्वासन	 प्रदीप कुमार बंसल अपर महाप्रबंधक गुणता आश्वासन
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO		
		ITEM/ EQUIPMENTS	STATOR FRAME(FAB & M/C)					Q.P. NO	QP/QA/216141					
								DATE	15.12.2021					
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR		
								PAGE NO.	2 of 3		Indent	20210338 rev 00 dated 14.12.2021		
Sl. No.	COMPONENT OPERATION	CHARACTRISTIC CHECKED	CATEGORY	TYPE/ METHOD OF CHECKED	QUANT-UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE DOCUMENT	FORMAT OF RECORD	D	AGENCY			REMARKS	
										M	B	C		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

		ii) Dimension	Major	Measurement	100%	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
		iii) Edge preparation	Minor	Measurement	100%	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
2.4	Welding Operation	i) Fit up	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	V	-	1) BHEL approved electrode shall be used during welding 2) Qualified welders by BHEL /BHEL approved agency in accordance with ASME Section IX will be deployed on the job.
		ii) Visual inspection of welds	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	V	-	
		iii) DPT of welds as per drawing	Major	NDT	100%	As per drg./ Standard	As per drg./ Standard	Report	√	P	W	V	
3	FINAL INSPECTION												
3.1		i) Verification of dimensions & visual inspection(including flatness and surface finish, if any)	Major	Visual & measurement	100%	As per drg./ Standard	As per drg./ Standard	Obs. Sheet	√	P	W	V	

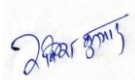

Manufacturer/Subcontractor		Legends: P Perform by; W Witness by; V Record review; C Customer; B BHEL/BHEL Representative; M Manufacturer/ sub-contractor; D: Documents with tick mark shall be submitted by vendor to BHEL.	For BHEL Use  रवीश कुमार चंदेल वरिष्ठ अभियंता गुणता आश्वासन	 प्रदीप कुमार बंसल अपर महाप्रबंधक गुणता आश्वासन
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN								APPLICABILITIES TO			
		ITEM/ EQUIPMENTS	STATOR FRAME(FAB & M/C)					Q.P. NO	QP/QA/216141				
								DATE	15.12.2021				
								REV. NO.	00	CONTRACTOR		BHEL (HEEP) HWR	
								PAGE NO.	3 of 3	Indent		20210338 rev 00 dated 14.12.2021	
Sl. No.	COMPONENT OPERATION	CHARACTRISTIC CHECKED	CATEGORY	TYPE/ METHOD OF CHECKED	QUANT-UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE DOCUMENT	FORMAT OF RECORD	D	AGENCY			REMARKS
										M	B	C	
1	2	3	4	5	6	7	8	9	10	11	12	13	14

		ii) Painting & preservation	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	W	-	
		iii) Completeness of Job, Documentation	Major	Visual	-	-	Drg./QP	Record	-	P	V	-	Item shall be dispatched to BHEL after acceptance by BHEL nominated agency after duly identifying by punching P.O. No., drg no. Plant Order No. and I.R. No.

Note(s):

All requirements of P.O., drawings and standards shall be fulfilled.

Manufacturer/Subcontractor		Legends: P Perform by; W Witness by; V Record review; C Customer; B BHEL/BHEL Representative; M Manufacturer/ sub-contractor; D: Documents with tick mark shall be submitted by vendor to BHEL.	For BHEL Use <div>  रवीश कुमार चंदेल वरिष्ठ अभियंता गुणता आश्वासन </div> <div>  प्रदीप कुमार बंसल अपर महाप्रबंधक गुणता आश्वासन </div>
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AIX to inform following to sub-contractor in case Remote Inspection along with routine inspection is required (due to covid-19 situation):

Procedure for Remote inspections (Purchased / sub-contracted items)-

- Vendor will submit remote inspection call similar to routine inspection call (along with internal inspection reports, records of calibration of measuring instruments).
- Digital display measuring instruments to be preferred, if available.
- Illumination by minimum 100 Watt bulb is to be done on the job near the location of inspection.
- Remote inspection will start with verification of identification numbers available on the item.
- Remote inspection will be offered by vendor through live videography, and videos, important pictures to be included as records of inspection, which will be submitted to BHEL (QC-Materials).
- The online inspection shall be performed using video call on Lifesize, Webex, Whatsapp, Microsoft Teams applications.

a) For **MPI**, first calibration using field indicator will be shown. After that room will be covered for darkness and MPI using Yoke or Prod as per applicable specification-shall be performed on casting. The inspector at the other end will see it through video call. As MPI is with Fluorescent method, the indication are visible in the dark and can be seen through video call.

b) For **UT**, first the calibration of UT machine will be shown to the inspector through video call. After that 02 No. mobile phones will be used for showing the UT on the job. 01 mobile is used for showing the probe movement and other is used for showing the screen of UT machine for indications.

c) The **HARDNESS** on material shall be shown using EQUOTIP HARDNESS TESTER. Before start of testing calibration on standard test block will be shown.

d) **DIMENSION & WALL THICKNESS** will be shown on marking table through video call.

e) For **MECHANICAL TESTING**, first "0" setting of machines will be shown to the inspector. After that dimension of each sample will be shown. The tensile test and impact tests shall be performed on test sample and inspector will witness the same through video call. After completion of test, all measurement on test samples, as applicable, shall be shown to the inspector on video call.

- Remote Inspection to be performed on job, should have no difference w.r.t. routine inspection performed in case of personal attendance of inspector.
- In case, interruption / loss of connectivity is reported by BHEL/ BHEL nominated agency during inspection, the process will be repeated by the vendor.
- Any clarification raised during remote inspection, will be responded immediately by vendor.

रवीश कुमार चंदेल
वरिष्ठ अभियंता
गुणता आश्वासन

प्रदीप कुमार बंसल
अपर महाप्रबंधक
गुणता आश्वासन

Certificate

In line with 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, we hereby certify that we M/s Â _____(supplier name) are local supplier meeting the requirement of minimum local content (50%) as defined in above orders for the material against Enquiry No.

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

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

Seal and Signature of Supplier

Framework Confidentiality Agreement cum Undertaking

This Agreement made on this the _____ day of (month) _____ 20____
("Effective Date") by and between
M/s BHARAT HEAVY ELECTRICALS LIMITED, having registered office at "BHEL
House", Siri Fort, New Delhi – 110049 (India), acting through its _____ Unit
(hereinafter may be referred to as "BHEL" or "the Company").

And

M/s _____ (address) _____
represented by authorized representative Sri _____ (herein after
referred to as the "Supplier").

The Supplier and the Company may, unless the context otherwise requires, hereinafter be
collectively referred to as "Parties" or singly as the "Party".

RECITALS

Whereas, BHEL is engaged in the design, engineering, manufacturing, construction, testing,
commissioning and servicing of a wide range of products, systems and services for the core
sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable
energy, Oil & Gas and Defence and providing associated services to varied customers in
relation to which BHEL/its affiliates own valuable information of a secret and confidential
nature.

Whereas the Company may, in connection with Contract(s) (as defined hereunder) placed or
to be placed upon the Supplier, or otherwise, from time to time, make available, Technical
Information as is defined hereunder.

And Whereas BHEL is willing to provide such Technical Information to the Supplier from
time to time and the Supplier understands and acknowledges that such Technical Information
is valuable for the Company and as such is willing to protect confidentiality of such
information, subject to the terms and conditions set out hereunder.

Now therefore, in view of the foregoing premises and in consideration of the mutual
covenants and agreements hereinafter set forth, the Parties agree as under:

1. Definitions:

Unless the context so requires, in this Agreement, the following terms will bear the meaning
ascribed to the said term in this clause.

- A. **"Contract"** means the Contract entered into with a Supplier and includes a Purchase
Order, or a Work Order for procurement of any goods or for provision of any services.
- B. **"Effective Date"** means the date of this Agreement as mentioned in the preamble of
this Agreement.

- C. **“Supplier”** includes a Contractor or a Vendor of the Company whether for supplying of goods or for providing any services under a Contract or both.
 - D. **“Technical Information”** includes Drawings, and/or Product Standards and/or Specifications and/or Corporate / Plant Specifications and/or Technological Process Sheets and/or Technical Data Sheets and/or Jigs & Fixtures and/or Pattern & Dies and/or Special Gauges and/or Tools etc. belonging to or wherein the Company has acquired from a third party a right of user and includes any improvement thereto from time to time whether carried out by the Company or by the Supplier.
 - E. **“Intended Purpose”** means the purpose for which the Technical Information is provided to the Supplier under or in connection with a Contract.
 - F. **“Improvement”** includes any modification made to, or adaptation of, the Technical Information which enhances or is calculated to enhance the performance (whether in terms of effectiveness or in terms of efficiency or both) of the product and/or the service to be provided by the Supplier under a Contract.
2. This Agreement shall come into force/deemed to have come into force, as the case may be, on the Effective Date; or, on the first date when the Technical Information or any part thereof is provided by BHEL to the Supplier; whichever is earlier.
3. **Agreement deemed to be incorporated in each Contract:** Unless and to the extent otherwise stipulated in the Contract, the conditions of this Agreement are deemed to be incorporated in all Contracts which may be entered into between the Company and the Supplier. Further, unless otherwise stipulated, the obligations under this Agreement are and will be independent of the obligations under the Contracts and such obligations of the Supplier hereunder will remain of full effect and validity notwithstanding that the period of validity of the Contracts has expired by efflux of time stipulated therein; or, the contract has been discharged by performance or breach; or, the termination of the Contracts for any reason whatsoever.
4. **Ownership:**
- 4.1 The Company may, from time to time, make available to the Supplier, Technical Information on a non-exclusive basis by way of loan.
- 4.2 The Supplier acknowledges and agrees that all Technical Information and copies thereof that are or may be provided by the Company to the Supplier, are and shall remain the property of BHEL or that of the concerned entity from whom BHEL has obtained the Technical Information and such Technical Information are and shall constitute trade secrets of the BHEL. Nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any patent, copyright or design or any other intellectual property rights of whatsoever description that subsists or may hereinafter exist in the Technical Information. Furthermore, nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any license or rights of use of such patent, copyright or design or any other

Annexure-2

intellectual property rights of whatsoever description which may now or hereafter exist in the Technical Information except for use of the Technical Information strictly in accordance with this Agreement and the Contract and/or as directed in writing by the Company, solely for the Intended Purpose under the Contract.

4.3 Neither Party is obligated by or under this Agreement to purchase from or provide to the other Party any service or product and that any such purchase/sale of any product and/or service by one Party to the other Party will be governed by the Contract if any, that may be entered into by and between the Company and the Supplier.

4.4 The Supplier is/has been made well aware and acknowledges that the Technical Information being/which may be shared with it by the Company has been either generated by the Company by incurring huge investment and cost or obtained from foreign collaborators under Technical Collaboration Agreement (TCA) with stringent confidentiality conditions.

4.5 The Supplier agrees and undertakes to adhere to confidentiality requirements as applicable to BHEL under a TCA and also ensure that the confidentiality requirements are adhered to by all its concerned employees or sub-contractors/suppliers (where permitted to be engaged by BHEL). Any damages, losses, expenses of any description whatsoever, arising out of or in connection with a breach of the confidentiality requirements under a TCA owing to any act or omission on the part of the Supplier or its employees or sub-contractors/suppliers that is claimed by a foreign collaborator from the Company shall be wholly borne by the Supplier and it shall keep BHEL fully indemnified in this behalf. The demand by the Company shall be conclusive upon the Supplier who shall thereupon forthwith pay to the Company without demur, dispute or delay the amount as demanded without demanding any further proof thereof.

4.6 The Supplier agrees and undertakes that unless so decided and advised by the Company in writing all rights/title to any Improvement to the Technical Information shall vest in the Company. The Supplier undertakes and agrees to inform forthwith to the Company of any such Improvement made to the Technical Information and transfer all drawings/documents or other materials connected with such Improvement to the Company and also agrees to fully cooperate with the Company for protecting the Company's interests in such Improvement in the Technical Information including but not limited to obtaining necessary protection for the intellectual property rights in such improvement, if so desired by the Company. If a question arises whether a modification amounts to Improvement to the Technical Information, the same shall be decided by the Company and such decision shall be final and binding upon the Supplier.

5. Use and Non-Disclosure:

5.1 Unless otherwise stipulated by the Company, all Technical Information made available to the Supplier, by the Company shall be treated as Confidential irrespective of whether the same is marked or otherwise denoted to be Confidential or not.

- 5.2 The Supplier undertakes and agrees that the Technical Information in its possession shall be held in strict confidence and will be used strictly in accordance with this Agreement and solely for the Intended Purpose under the Contract. Use of the Technical Information for any other purpose other than Intended Purpose is prohibited.
- 5.3 In particular, the Supplier shall not use Technical Information or any Improvement in its possession for the manufacture or procurement of the Product(s) or components or parts thereof or use the Technical Information or any portion thereof or any modification or adaptation thereof in any form to provide any product and/or service to any third party, without the prior written consent of the Company.
- 5.4 The Supplier shall not disclose any of such Technical Information to any third party without the prior written consent of the Company. The Supplier agrees that without prior written consent of the Company, the Supplier shall not disclose to a third party about the existence of this Agreement, or of the fact that it is/was in possession of or has experience in the use of any Technical Information nor shall the Supplier share in any manner whatsoever, with a third party, the name or details of any Contract(s) awarded by the Company to it or performed by the Supplier or the scope of work thereof or share any document or correspondence by and between the Company and the Supplier in or in connection with this Agreement or such Contract(s). Notwithstanding what is stated elsewhere, the overall responsibility of any breach of the confidentiality provisions under this Agreement shall rest with the Supplier.
- 5.5 The Supplier undertakes and agrees not to make copies or extracts of and not to disclose to others any or all of the Technical Information in its possession, except as follows:
- (a) The Supplier may disclose the Technical Information to such of its officers and employees strictly to the extent as is necessary for such officer or employee for the Intended Purpose, provided that the Confidential Information (or copies thereof) disclosed shall be marked clearly as the confidential and proprietary information of Company and that such officers and employees shall similarly be bound by undertakings of confidence, restricted use and non-disclosure in respect of the Technical Information. The Supplier shall be responsible for any breach of such confidentiality provisions by such officers and employees.
 - (b) With the prior written consent of Company, the Supplier may disclose for the Intended Purpose such Technical Information as is provided for in such consent to such of its professional advisers: consultants, insurers and subcontractors who shall be similarly bound by undertakings of confidence, restricted use and non-disclosure in respect of such Technical Information.
 - (c) The Supplier shall not be prevented to make any disclosure required by (i) order of a court of competent jurisdiction or (ii) any competent regulatory authority or agency where such disclosure is required by law, provided that where the Supplier

intends to make such disclosure, it shall first consult Company and take all reasonable steps requested by it to minimize the extent of the Technical Information disclosed and to make such disclosure in confidence and also shall cooperate with the Company in seeking any protective order or any other remedy from proper authority in this matter.

6. Exceptions:

The obligations of the Supplier pursuant to the provisions of this agreement shall not apply to any Confidential Information that:

- a) was/is known to, or in the possession of the Supplier prior to disclosure thereof by the Company;
- b) is or becomes publicly known, otherwise than as a result of a breach of this agreement by the Supplier.
- c) is developed independently of the Disclosing Party by the Supplier in circumstances that do not amount to a breach of the provisions of this Agreement or the Contract;
- d) is received from a third party in circumstances that do not result in a breach of the provisions of this Agreement.

7. The obligation of maintaining confidentiality of the Technical Information on each occasion, shall subsist for the entire duration during which the Technical Information / equipment is in possession of the Supplier and shall thereafter subsist for a further period of --- years from the date when the complete Technical Information has been returned to the Company and if Technical Information has been returned in portions on different dates then, the period of ---- years will be reckoned from the date when the last portion of the Technical Information has been returned. Notwithstanding the expiry of the confidentiality obligation, the obligation of the Supplier under clause 5.4 shall continue to subsist for a further period of ----- years.

8. Warranties & Undertakings:

- a) The Supplier undertakes to ensure the due observance of the undertakings of confidence, restricted use and non-disclosure by its persons to whom it discloses or releases copies or extracts of the Technical Information.
- b) The Supplier shall keep the Technical Information or improvement made therein properly segregated and not mix up the same with any other material/documents belonging to him/it or to any other third party.
- c) The Supplier further undertakes that he/it shall not hypothecate or give on lease or otherwise alienate or do away with any of the Technical Information and/or equipment of the Company, made available to him/it, and undertakes that he/it shall hold the same as a trustee, in capacity of custodian thereof and use/utilise the same solely for the purpose of executing the Contract awarded by the Company.
- d) The Supplier further undertakes that he/it shall return all the equipment and/or Technical Information as far as practicable in the same condition in which the same was made available to him/it by the Company together with any Improvement thereon and the documents connected with such Improvement, to the Company forthwith upon completion of the scope

of work or Contract for which such Technical Information was provided by the Company to it or as directed by the Company together with a confirmation by way of an affidavit or in such manner as directed by the Company that it has not retained any equipment and/or Technical Information/Improvement thereof. In case any such equipment and/or Technical Information or Improvement thereof shall remain in his possession or is not capable of being returned, the retention and use of such Technical Information or Improvement thereto shall continue to be governed by this Agreement.

e) The Supplier undertakes to indemnify the Company for all the direct, indirect and/or consequential losses, damages, expenses whatsoever including any consequential loss of business, profits suffered by the Company owing to breach by the Supplier of its obligations under this Agreement and/or the confidentiality requirements, if any, contained in the Contract and that the Supplier hereby agrees that the decision of the Company in all such or any such matter/s shall be final and binding on the Supplier. On mere written demand of the Company, the Supplier shall forthwith and without demur or delay pay to the Company any such sum as determined by the Company as the amount of loss or damage or expense which has been suffered by the Company. The Supplier agrees that the Company shall be entitled to withhold and appropriate any amount payable to the Supplier under any Contract then existing between the Company and the Supplier, in case the Supplier fails to make payment, in terms of the written demand, within 7 days thereof. Without prejudice to the foregoing actions, in respect to any breach of this Agreement, the Company shall be entitled to take any other action against the Supplier as per applicable laws, the Contract, Company's applicable policies, guidelines rules, procedures, etc.

9. Without prejudice to any other mode of recovery as may be available to the Company for recovery of the amount determined as due as per Clause 8(e) hereinabove, the Company shall have a right to withhold, recover and appropriate the amount due towards such losses, damages, expenses, from any amount due to the Supplier in respect of any other Contract (s) placed on him/it by any department/office/Unit/Division of the said Company.

10. Arbitration & Conciliation:

a) In case amicable settlement is not reached between the Parties, in respect of any dispute
or

difference or claim or controversy arising out of the formation, breach, termination, validity or execution of the Contract(or Agreement) or the respective rights and liabilities of the parties or in relation to interpretation of any provision of the Contract or in any manner touching upon the Contract, then, either Party may, by a notice in writing to the other Party refer such dispute or difference or controversy or claim, (except as to any matters, the decision of which is specifically provided for therein) to the sole arbitration by the arbitrator appointed by Head/In-Charge of the Unit/Division/Region.

b) The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties to the dispute.

c) Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India), or other statutory modifications or re enactments thereof and the rules made thereunder and for

the time being in force shall apply to the arbitration proceedings under this clause. The seat of arbitration shall be at ----- **(Insert the name of the city/town of the concerned BHEL Unit/Division).**

d) In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred to by either party to the arbitration of one of the arbitrators in the department of public enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the parties hereto finally and conclusively.

e) Notwithstanding the existence or any dispute or differences and/or reference for the arbitration, the Supplier shall proceed with and continue without hindrance the performance of its obligations under this Contract with due diligence and expedition in a professional manner.

11. Governing Law & Jurisdiction:

This Agreement shall be governed by and be construed as per applicable Indian Laws in force at the relevant time.

Subject to clauses 10(a) and 10(d) hereinabove, all matters in connection with the subject agreement shall be subject to exclusive jurisdiction of Courts situated at -----**(insert the name of the place where the BHEL Unit/Division is located)**

SIGNATURE

WITNESSES

1.

Name

Address:

2.

Name:

Address:



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
02510689603	00	1	22.07.2021	Fabrication Weight Added.

CBOM - 02510689603 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
0	02510689603 00			28450.0						
1(1)	STATOR FRAME(FAB & M/C)			Y						
MF	HMS-713/170-24K		Y	28900.0	0306-0314-0306-0202-0205					
1	12510689602 00			775.0						
4(4)	JOINT BAR ASSY.			Y						
MF DR			N		0306-0202-0306					
1-1		AA1011819228	AA10119	333.0	580.0X2480.0	1	4	664.0	0.0	2656.0
1(4)	JOINT BAR (L.H.) SSSQ PLATE		IT 1 OF 12510689602	Y	PL 56					
MF DR	ST-FE410 WB-PLATE		580.0X2480.0		0072-0301-0306					KG
1-2		AA1011819228	AA10119	333.0	580.0X2480.0	1	4	664.0	0.0	2656.0
1(4)	JOINT BAR (R.H.) SSSQ PLATE		IT 2 OF 12510689602	Y	PL 56					
MF DR	ST-FE410 WB-PLATE		580.0X2480.0		0072-0301-0306					KG
1-3	42998801001 00	AA1010209159	AA10109	0.57	95.0	1	20	0.79	0.0	15.8
5(20)	DOWEL			Y	RND 36					
MF DR	DOWEL D32X90 LG.				0072-0202					KG
1-4	32990101005 00	AA1020208236	AA10208	2.7	195.0	1	28	7.09	0.0	198.52
7(28)	FITTED BOLT M42X160			Y	RND 75					
MF					0072-0202					KG
1-5	32998801046 02	AA1020208252	AA10208	1.7	195.0	1	72	9.78	0.0	704.16
18(72)	SCREW M42		IT 2 OF 32998801046	Y	RND 90					
MF DR					0072-0202-0205					KG
1-6	42998801502 00	AA1020208236	AA10208	0.88	45.0	1	100	1.63	0.0	163.0
25(100)	NUT M42			Y	RND 75					
MF					0072-0202					KG
1-7		AA1010209167	AA10109	1.86	390.0	1	8	4.0	0.0	32.0
2(8)	LIFTING BAR DIA 40X190		IT 7 OF 12510689602	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
1-8		AA1011819139	AA10119	0.785	50.0X100.0	1	48	0.82	0.0	39.36
12(48)	CLAMPING BAR		20TKX50X100 LG	Y	PL 20					
MF DR	ST-FE410 WB-PLATE		50.0X100.0		0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
1-9		AA1011819155	AA10119	0.88	90.0X50.0	1	32	0.93	0.0	29.76
8(32)	SUPPORT BAR			Y	PL 25					
MF DR	ST-FE410 WB-PLATE		50.0X90.0		0072-0301-0306					KG
2	22510689604 00			880.0						
4(4)	TOP PLATE ASSEMBLY			Y						
MF DR			N		0306					
2-1		AA1011819171	AA10119	761.55	3180.0X1500.0	1	4	1300.0	0.0	5200.0
1(4)	TOP PLATE SEGMENT		ITEM 1 OF 22510689604	Y	PL 32		To be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
2-2		AA1011819228	AA10119	59.3	300.0X450.0	1	8	62.3	0.0	498.4
2(8)	TOP PAD 56TKX300X450		IT 2 OF 22510689604	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3	22510689605 00			813.62						
4(4)	TOP INTERMEDIATE PLATE ASSLY			Y						
MF DR			N		0306					
3-1		AA1011819171	AA10119	910.0	3180.0X1500.0	1	4	1300.0	0.0	5200.0
1(4)	TOP INTERMEDIATE SEGMENT		IT 1 OF 22510689605	Y	PL 32		To be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306-0301-0317-0306					KG
3-2		AA1071740130	AA10740	0.18	144.0X70.0	1	48	0.26	0.0	12.48
12(48)	COVER PLATE 3.15TKX70X144		IT 2 OF 22510689605	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET		70.0X144.0		0072-0321-0317-0306					KG
3-3		AA7121123126	AA7121123	0.014	0.0	0	0	0.0	0.0	96.0
24(96)	SCRU HEX A- 8.8		CUT TO LENGTH 20	Y						
SI DR	M8X25				0074-0306					NO
3-4		AA7164002053	AA7164002	0.002	0.0	0	0	0.0	0.0	96.0
24(96)	WASHER SPRING LOCK SCB-ST			Y						
SI DR	8				0074-0306					NO
4	22510689606 00	AA1011808110	AA10108	404.0	3180.0X1500.0	1	16	630.0	0.0	10080.0
16(16)	INTERMEDIATE PLATE		IT 1 OF 22510689606	Y	PL 16					
MF DR					0072-0301-0306-0301-0306					KG

ENGG

EMT

WTX

Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
5	22510689607 00			1220.0						
4(4)	BOTTOM PLATE ASSLY.			Y						
MF DR			N		0306					
5-1		AA1011819198	AA10119	1142.0	3180.0X1500.0	1	4	1574.0	0.0	6296.0
1(4)	BOTTOM PLATE SEGMENT		IT 1 OF 22510689607	Y	PL 40			To be made in 2 parts		
MF DR	ST-FE410 WB-PLATE				0072-0301-0306-0301-0317-0306					KG
5-2		AA1011819228	AA10119	98.9	300.0X750.0	1	8	103.85	0.0	830.8
2(8)	BOTTOM PAD 56TKX300X750		IT 2 OF 22510689607	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
5-3		AA1071740130	AA10740	0.18	144.0X70.0	1	48	0.27	0.0	12.96
12(48)	COVER PLATE 3.15TKX70X144		IT 3 OF 22510689607	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET				0072-0321-0317-0306					KG
5-4		AA7121123126	AA7121123	0.014	0.0	0	0	0.0	0.0	96.0
24(96)	SCRU HEX A- 8.8		CUT TO LENGTH 20	Y						
SI DR	M8X25				0074-0306					NO
5-5		AA7164002053	AA7164002	0.002	0.0	0	0	0.0	0.0	96.0
24(96)	WASHER SPRING LOCK SCB-ST			Y						
SI DR	8				0074-0306					NO
6	22510689608 04	AA1011052377	AA10152	4.0	326.0	1	176	0.4	0.0	70.4
176(176)	STATOR FRAME DETAILS		IT 4 OF 22510689608	Y	PI 115.0X4.50					
MF DR	SPACER TUBE				0072-0315-0202-0306					MR
7		AA1011808072	AA10108	4.56	1200.0X50.0	1	2	4.94	0.0	9.88
2(2)	TERMINAL PLATE		IT 5 OF 22510689608	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0317-0306					KG
8		AA1011808110	AA10108	267.0	3136.0X782.0	1	2	324.0	0.0	648.0
2(2)	WRAPPER PLATE		IT 2 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
9		AA1011819228	AA10119	20.22	230.0X200.0	1	8	21.25	0.0	170.0
8(8)	BLOCK 56 TKX200X230 LG			Y	PL 56					
MF DR	ST-FE410 WB-PLATE		200.0X230.0		0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Type Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
10		AA1011808110	AA10108	308.0	3136.0X782.0	1	6	324.0	0.0	1944.0
6(6)	WRAPPER PLATE		IT 3 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
11		AA1011808110	AA10108	11.25	240.0X782.0	1	16	24.75	0.0	396.0
16(16)	RIB (INNER)		IT 6 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
12		AA1011808110	AA10108	13.2	135.0X782.0	1	4	13.92	0.0	55.68
4(4)	RIB (OUTER)		IT 7 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
13		AA1011808110	AA10108	20.1	205.0X782.0	1	12	21.0	0.0	252.0
12(12)	RIB (OUTER)		IT 8 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
14		AA1011808110	AA10108	6.78	175.0X782.0	1	32	18.04	0.0	577.28
32(32)	RIB (INNER)		IT 9 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
15		AA1011808072	AA10108	4.7	750.0X80.0	1	24	4.95	0.0	118.8
24(24)	COVER FACING PLATE (HOR)		IT 10 OF 22510689608	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE		80.0X750.0		0072-0301-0306					KG
16		AA1011808072	AA10108	11.2	1750.0X197.0	1	16	28.4	0.0	454.4
16(16)	COOLER FACING PLATE (HOR)		IT 12 OF 22510689608	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE		196.5X725.0		0072-0301-0306					KG
17		AA1011808072	AA10108	27.0	169.0X2000.0	1	8	28.4	0.0	227.2
8(8)	COOLER FACING PLATE (HOR)		IT 11 OF 22510689608	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
18	32510689608 00			51.55						
4(4)	LIFTING BAR ASSY.			Y						
MF DR			N		0306					
18-1		AA1011819198	AA10119	47.2	782.0X320.0	1	4	82.57	0.0	330.28
1(4)	LIFTING BAR SSSQ		IT 1 OF 32510689608	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
18-2		AA1010209167	AA10109	1.85	388.0	1	8	4.0	0.0	32.0
2(8)	SLING PROTECTOR DIA 40 X188		IT 2 OF 32510689608	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
19	32510689609 00			79.9						
4(4)	LIFTING LUG ASSY (LH)			Y						
MF DR			N		0306					
19-1		AA1011819198	AA10119	77.5	782.0X444.0	1	4	114.5	0.0	458.0
1(4)	LIFTING BAR SSSQ		IT 1 OF 32510689609	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
19-2		AA1010209167	AA10109	1.85	388.0	1	8	4.0	0.0	32.0
2(8)	SLING PROTECTOR DIA 40 X188		IT 2 OF 32510689609	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
20	32510689610 00			79.9						
4(4)	LIFTING LUG ASSY (RH)			Y						
MF DR			N		0306					
20-1		AA1011819198	AA10119	77.5	782.0X444.0	1	4	114.47	0.0	457.88
1(4)	LIFTING BAR SSSQ		IT 1 OF 32510689610	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
20-2		AA1010209167	AA10109	1.85	388.0	1	8	4.0	0.0	32.0
2(8)	SLING PROTECTOR DIA 40 X188		IT 2 OF 32510689610	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
21	32510689618 00			19.73						
8(8)	COVER ASSY.			Y						
MF DR			N		0306					
21-1		AA1071740130	AA10740	19.57	820.0X967.0	1	8	20.6	0.0	164.8
1(8)	COVER		3.15TKX820X967	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET		820.0X967.0		0072-0321-0317-0306					KG
21-2	42998801009 00	AA1010209060	AA10109	0.08	330.0	0	0	1.0	0.21	16.21
2(16)	HANDLE			Y	RND 10					
MF DR	HANDLE				0072-0315-0306					KG

ENGG**EMT****WTX**

Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
22		AA1011808072	AA10108	45.0	1708.0X336.0	1	16	47.34	0.0	757.44
16(16)	COOLER FACING PLATE		10TKX335.5X1708	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE		335.5X1708.0		0072-0301-0306					KG
23		AA7121123126	AA7121123	0.014	0.0	0	0	0.0	0.0	284.0
284(284)	SCRU HEX A- 8.8		INCLUDES 12 EXTRA	Y						
SI DR	M8X25				0074-0306					NO
24		AA7164002053	AA7164002	0.002	0.0	0	0	0.0	0.0	284.0
284(284)	WASHER SPRING LOCK SCB-ST		INCLUDES 12 EXTRA	Y						
SI DR	8				0074-0306					NO
25		AA1011808110	AA10108	0.4	150.0X30.0	1	2	0.59	0.0	1.18
2(2)	RIB (OUTER)		IT 13 OF 22510689608	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
26		AA1011819228	AA10119	4.4	100.0X100.0	1	8	4.6	0.0	36.8
8(8)	BLOCK		56TK X100X100	Y	PL 56					
MF DR	ST-FE410 WB-PLATE		100.0X100.0		0072-0301-0306					KG
27		AA1011808072	AA10108	2.25	200.0X145.0	1	16	2.4	0.0	38.4
16(16)	COOLER FACING PLATE		IT 14 OF 22510689608	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0317-0306					KG
28		AA1011819074	AA10119	10.8	1708.0X80.0	1	16	11.3	0.0	180.8
16(16)	COVER FACING PLATE		10TKX80X1708	Y	PL 10					
MF DR	ST-FE410 WB-PLATE		80.0X1708.0		0072-0301-0306					KG
29		AA1011052377	AA10152	4.02	328.0	1	44	0.4	0.0	17.6
44(44)	SPACER TUBE		IT 1 OF 22510689608	Y	PI 115.0X4.50					
MF	ST-ERW-TUBE				0072-0315-0202-0306					MR
30	32510689611 00			13.12						
8(8)	COVER ASSY.			Y						
MF DR			N		0306					
30-1		AA1071740130	AA10740	12.96	641.0X820.0	1	8	13.65	0.0	109.2
1(8)	COVER		3.15TKX641X820	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET		641.0X820.0		0072-0321-0317-0306					KG

ENGG**EMT****WTX**

Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



COMBINED BILL OF MATERIAL

Printed On:12.01.2022

Printed By:

CBOM No: 02510689603 CBOM Var: 00
Description: STATOR FRAME(FAB & M/C)

Revno: 1

Rev Date: 21.12.2021

Total weight: 28450.0

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
30-2	42998801009 00	AA1010209060	AA10109	0.08	330.0	0	0	1.0	0.21	16.21
2(16)	HANDLE			Y	RND 10					
MF DR	HANDLE				0072-0315-0306					KG

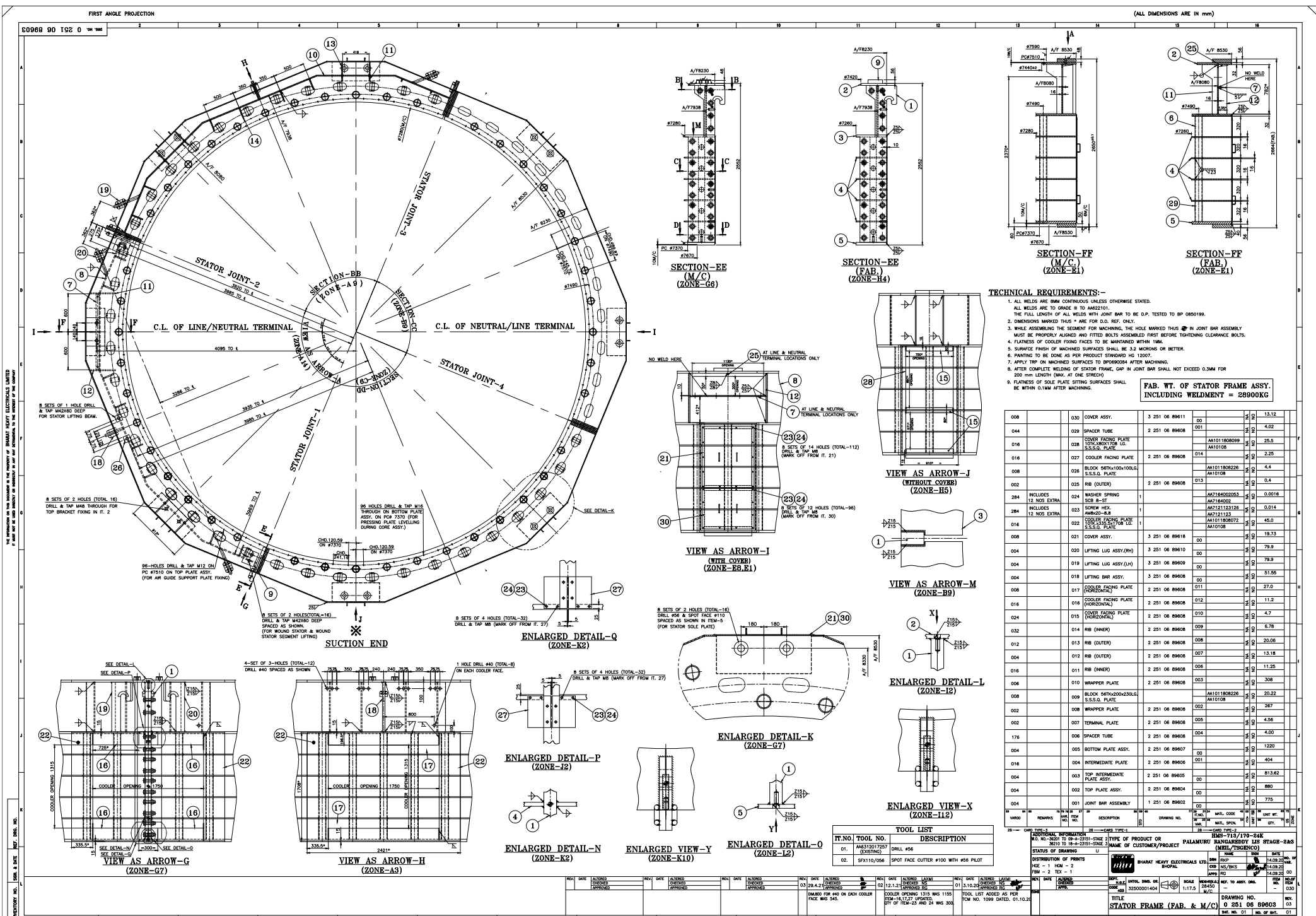
CBOM - 02510689603 00

ENGG

EMT

WTX

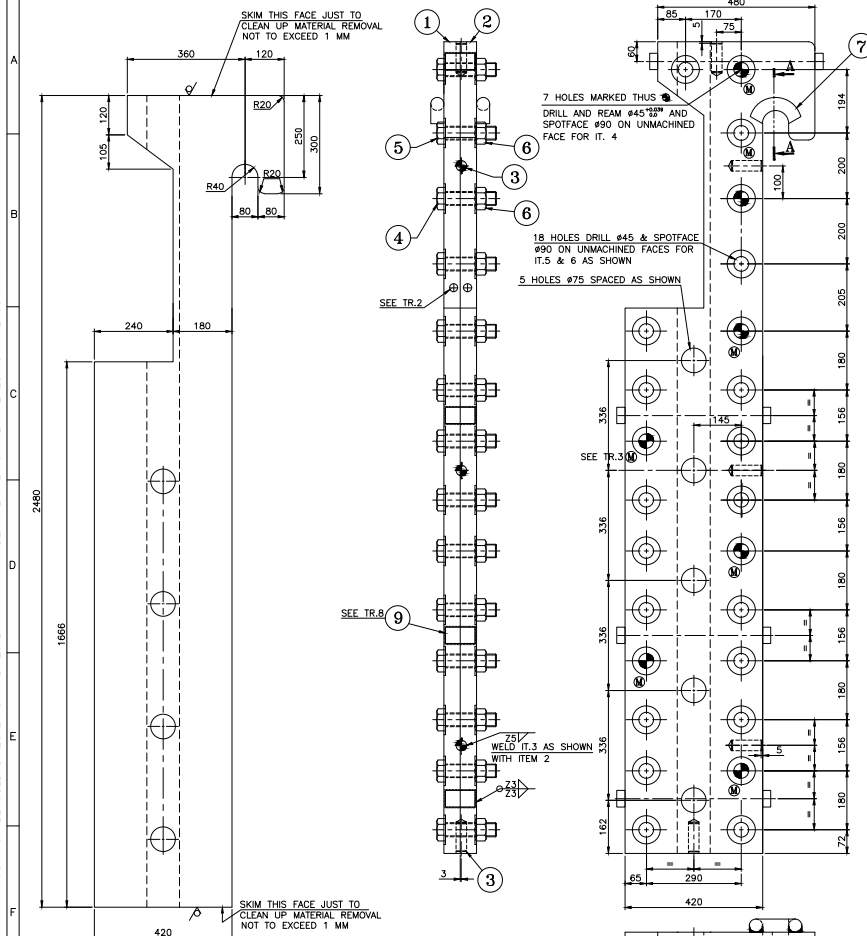
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgedk	19.06.2021	emtvme	05.07.2021	wtxdee	05.07.2021
Checked By	tgeam	05.07.2021	emtvme	05.07.2021	wtxabh	05.07.2021
Approved By	tgerks	07.07.2021	emtak	05.07.2021	wtxblm	05.07.2021



FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

20968 90 192 1 ON '980

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.ARRANGEMENT OF CLAMPING BAR ITEM 8
(FOR MACHINING PURPOSE ONLY SEE T.R.4)

ENLARGED DETAIL-S

PART SECTION-AA

FOR STAGE-2

TABLE-1 JOINT BAR				
UNIT NO.	JOINT-1	JOINT-2	JOINT-3	JOINT-4
1	A1A1	B1B1	C1C1	D1D1
2	A2A2	B2B2	C2C2	D2D2
3	A3A3	B3B3	C3C3	D3D3
4	A4A4	B4B4	C4C4	D4D4
5	A5A5	B5B5	C5C5	D5D5
6	A6A6	B6B6	C6C6	D6D6
7	A7A7	B7B7	C7C7	D7D7
8	A8A8	B8B8	C8C8	D8D8
9	A9A9	B9B9	C9C9	D9D9

FOR STAGE-2

TABLE-2 FITTED BOLT & HOLES NO.				
UNIT NO.	JOINT-1	JOINT-2	JOINT-3	JOINT-4
1	A1 TO A7	B1 TO B7	C1 TO C7	D1 TO D7
2	A8 TO A14	B8 TO B14	C8 TO C14	D8 TO D14
3	A15 TO A21	B15 TO B21	C15 TO C21	D15 TO D21
4	A22 TO A28	B22 TO B28	C22 TO C28	D22 TO D28
5	A29 TO A35	B29 TO B35	C29 TO C35	D29 TO D35
6	A36 TO A42	B36 TO B42	C36 TO C42	D36 TO D42
7	A43 TO A49	B43 TO B49	C43 TO C49	D43 TO D49
8	A50 TO A56	B50 TO B56	C50 TO C56	D50 TO D56
9	A57 TO A63	B57 TO B63	C57 TO C63	D57 TO D63

FOR STAGE-3

TABLE-1 JOINT BAR				
UNIT NO.	JOINT-1	JOINT-2	JOINT-3	JOINT-4
1	A10A10	B10B10	C10C10	D10D10
2	A11A11	B11B11	C11C11	D11D11
3	A12A12	B12B12	C12C12	D12D12
4	A13A13	B13B13	C13C13	D13D13
5	A14A14	B14B14	C14C14	D14D14
6	A15A15	B15B15	C15C15	D15D15
7	A16A16	B16B16	C16C16	D16D16
8	A17A17	B17B17	C17C17	D17D17
9	A18A18	B18B18	C18C18	D18D18

FOR STAGE-3

TABLE-2 FITTED BOLT & HOLES NO.				
UNIT NO.	JOINT-1	JOINT-2	JOINT-3	JOINT-4
1	A64 TO A70	B64 TO B70	C64 TO C70	D64 TO D70
2	A71 TO A77	B71 TO B77	C71 TO C77	D71 TO D77
3	A78 TO A84	B78 TO B84	C78 TO C84	D78 TO D84
4	A85 TO A91	B85 TO B91	C85 TO C91	D85 TO D91
5	A92 TO A98	B92 TO B98	C92 TO C98	D92 TO D98
6	A99 TO A105	B99 TO B105	C99 TO C105	D99 TO D105
7	A106 TO A112	B106 TO B112	C106 TO C112	D106 TO D112
8	A113 TO A119	B113 TO B119	C113 TO C119	D113 TO D119
9	A120 TO A126	B120 TO B126	C120 TO C126	D120 TO D126

TECHNICAL REQUIREMENTS:-

- PLATES USED FOR JOINT BARS ITEMS 1 & 2 ARE TO BE FLATTENED WITHIN ± 1 MM. AFTER FLAME CUTTING.
- JOINT BARS ARE TO BE STAMPED / PUNCHED & MAINTAINED AS A PAIR FOR EACH UNIT AS PER TABLE-1 AT LOCATION MARKED \oplus .
- STAMPING LOCATION SHOWN THUS \oplus TO BE DONE AFTER MACHINING, DRILLING & REAMING BUT BEFORE SENDING TO FABRICATION FOR EACH REAMED HOLE & ITS FITTED BOLT AS PER TABLE-2.
- AFTER MACHINING, CLAMPING BAR IT. 8 TO BE REMOVED FROM IT.1&2 AND SPOT TO BE DRESSED UP.
- ALL WELDS ARE OF GR III TO A0622101.
- SURFACE FINISH OF THE MACHINED SURFACES SHALL BE 3.2 MICRONS OR BETTER.
- IT.1 & 2 TO BE ULTRASONICALLY TESTED TO A0850120 BEFORE CUTTING.
- SUPPORT BAR ITEM 9 NOT TO BE REMOVED IN HGM AT THIS STAGE. THESE ARE TO BE REMOVED AFTER COMPLETE WELDING & FABRICATION OF STATOR FRAME.
- DIMENSIONS MARKED THUS * ARE FOR D.D. REF. ONLY.

TOOL LIST

ITEM	TOOL NO	DESCRIPTION
01.	1597331 (EXISTING)	CORE DRILL #44.5
02.	1597332 (EXISTING)	REAMER #45 $\pm 0.03/-0.00$
03.	1597658 (EXISTING)	CORE DRILL #31.5
04.	1597659 (EXISTING)	REAMER #32 $\pm 0.03/-0.00$

008		009	SUPPORT BAR 25TKx50x90LG. S.S.S.Q. PLATE			AA1010308980	2	0.88																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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28 --CARD TYPE-3

28 --CARD TYPE-1

28 --CARD TYPE-2

W.D. NO. 36201 TO 09-A-23151-STAGE 2

TYPE OF PRODUCT OR

HMS-713/170-24K

36210 TO 18-A-23151-STAGE 3

NAME OF CUSTOMER/PROJECT

PALAMURU RANGAREDDY LSS STAGE-2&3

STATUS OF DRAWING

U

(NEIL/TS/GENCO)

DISTRIBUTION OF PRINTS

HGE - 1 HGM - 2

BHPAL

FWM - 2 TEX - 1

APPR

NO. OF

REV. DATE

ALTERED

NO. OF

01 3.10.20

CHECKED

12.09.20

APPROVED

APPR

2.09.20

TOOL LIST ADDED AS PER

TQM NO. 1099 DATED. 01.10.20

12.09.20

REV. DATE

ALTERED

NO. OF

01 3.10.20

CHECKED

12.09.20

APPROVED

APPR

2.09.20

TITLE

JOINT BAR ASSY.

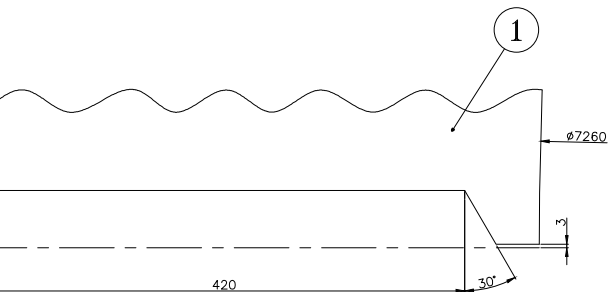
DRAWING NO.

SHT. NO. 01

NO. OF SHT. 01

1 251 06 89602



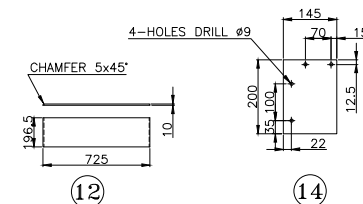
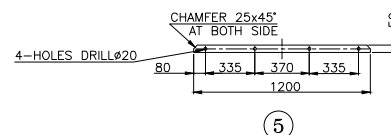
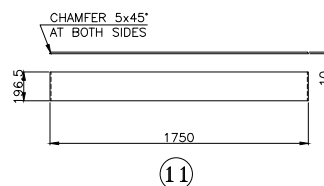
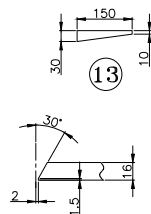
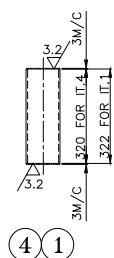


Technical drawing of a rectangular plate with rounded corners. The plate has a central square area with a side length of 100. The corners are rounded with a radius of R55. The drawing includes dimension lines and labels 'C' and 'R55'.

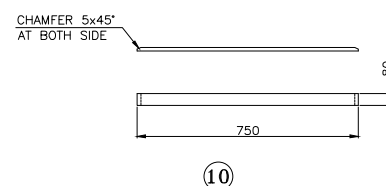
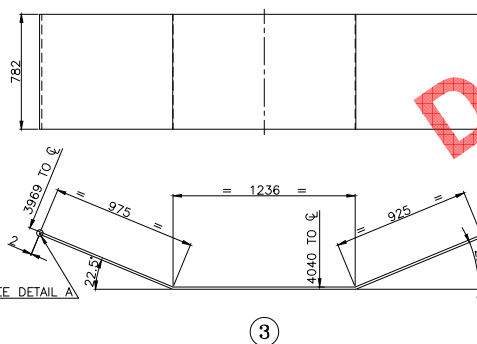
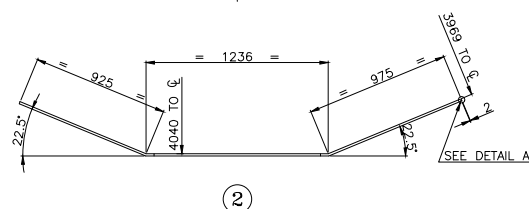
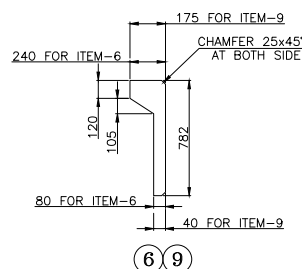
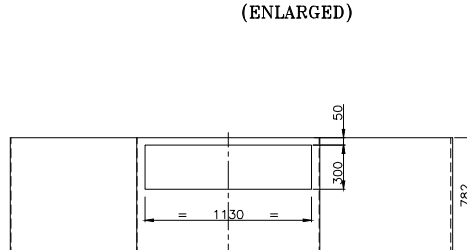
			001		INTERMEDIATE PLATE 16TK. S.S.S.Q.PLATE						AA1011808110		NA		404			
50 64 65			75 78 79		29		58 59		60		77 29 31		34		45 55 56		58 65 72	
VARDO			REMARKS		VAR. NO.		ITEM NO.		DESCRIPTION		DRAWING NO.		IT.NO.		MATL. CODE		UNIT WT.	
													32 33 34		46		54 68 71	
													VAR.		MATL. SPCN.		QTY.	
28 → CARD TYPE-3					28 → CARD TYPE-1						28 → CARD TYPE-2							

1. ALL WELDS ARE TO GR.III TO AA0622101.
2. ALL WELDS TO BE CRACK DETECTED BY DP TO BP0850199.
3. PLATE ITEM 001 AFTER WELDING, TO BE FLATTENED WITHIN 2MM.
4. AFTER FLATTENING, RADIUS OF ITEM 001 TO BE CHECKED ON ASSEMBLY LAYOUT.
5. ITEMS TO BE CUT BY ELECTRONIC FLAME CUTTING.
6. ALL SHARP EDGES TO BE ROUNDED OFF.

A2







DETAIL-A
(ENLARGED)



TECHNICAL REQUIREMENTS:-

1. ITEMS TO BE CUT BY ELECTRONIC FLAME CUTTING.
2. ALL SHARP EDGES TO BE ROUNDED OFF.
3. SURFACE FINISH OF THE MACHINED SURFACES SHALL BE 3.2 MICRONS OR BETTER.

[illegible]

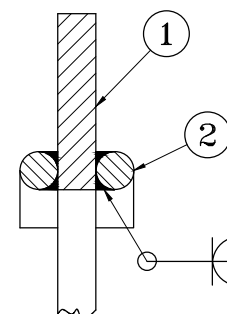
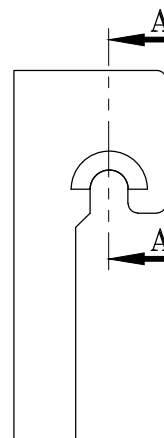
28		CARD TYPE-1		28		CARD TYPE-2																	
ADDITIONAL INFORMATION W.O. NO. - 36201 TO 09-A-23151-STAGE 2 36210 TO 18-A-23151-STAGE 3				TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT																			
STATUS OF DRAWING U				HMS-713/170-24K PALAMURU RANGAREDDY LIS STAGE-2&3 (MEIL/TSGENCO)																			
DISTRIBUTION OF PRINTS HCE - 1 HCM - 2 FWM - 2 TEX - 1				 BHARAT HEAVY ELECTRICALS LTD. BHOPAL		<table><tr><th>NAME</th><th>SIGN</th><th>DATE</th><th>NO. VAR.</th></tr><tr><td>DRN RKP</td><td></td><td>12.09.20</td><td></td></tr><tr><td>CKD NS/BKS</td><td></td><td>12.09.20</td><td></td></tr><tr><td>APPD RG</td><td></td><td>12.09.20</td><td></td></tr></table>		NAME	SIGN	DATE	NO. VAR.	DRN RKP		12.09.20		CKD NS/BKS		12.09.20		APPD RG		12.09.20	
NAME	SIGN	DATE	NO. VAR.																				
DRN RKP		12.09.20																					
CKD NS/BKS		12.09.20																					
APPD RG		12.09.20																					
REV.	DATE	ALTERED LU	DEPT.	H.G.E.	UNTOL. DIMS. GR.	SCALE	WEIGHT(K.G.)																
01	12.1.21	CHECKED NS APPD RG				1:22.5																	
ZONE	DIM.196.5 WAS 276.5 FOR ITEM-11&12. DIM.200 WAS 280 FOR ITEM-14.WEIGHT UPDATED.						REF. TO ASSY. DRG. 0 251 06 89603																
TITLE							ITEM NO. 01																
<u>STATOR FRAME DETAILS</u>							DRAWING NO. 2 251 06 89608 REV. NO. 01																
SHT. NO. 01							NO. OF SHT. 01																

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED			APPROVED

(ALL DIMENSIONS ARE IN mm)

Technical drawing of a mechanical part with the following dimensions:

- Overall width: 320
- Overall height: 782
- Top right corner radius: R20
- Internal corner radius: R40
- Vertical distance from top to internal corner: 250
- Horizontal distance from left edge to internal corner: 30
- Horizontal distance from internal corner to right edge: 80
- Bottom right corner radius: R20
- Bottom right corner height: 300
- Bottom edge width: 130

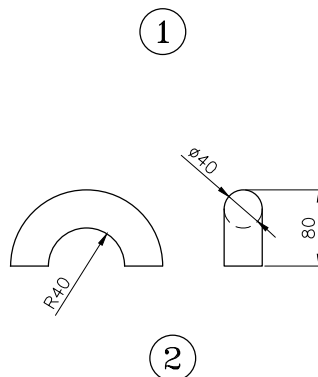


SECTION-AA






ASSY.

TECHNICAL REQUIREMENTS:-

1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA0622101.
3. IT. 1 TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.



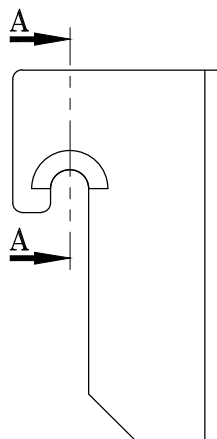
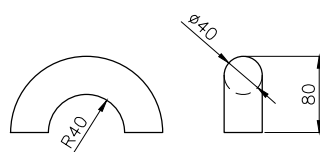
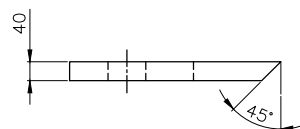
002				002		SLING PROTECTOR Ø40x188 APP.DEV.LG. S.S.S.Q. ROUND BAR		1				AA1010208160		NA		NO		1.85											
												AA10108																	
001				001		LIFTING BAR 40TK. S.S.S.Q. PLATE		1				AA1011808196		NA		NO		47.85											
												AA10108																	
59	64	65	75	78	79	25	27	29	58	59	60	77	29	31	34	45	55	56	57	58	65	71							
VAR00		REMARKS				VAR. NO.		ITEM NO.		DESCRIPTION			STD		DRAWING NO.			IT.NO.		MATL. CODE		A		C		UNIT		QTY.	
																		32		33		46		54		68		71	
																			VAR.		MATL. SPCN.								
28 → CARD TYPE-3								28 → CARD TYPE-1								28 → CARD TYPE-2													

ADDITIONAL INFORMATION			TYPE OF PRODUCT OR			HMS-713/170-24K					
W.O. NO.-36201 TO 09-A-23151-STAGE 2			NAME OF CUSTOMER/PROJECT			PALAMURU RANGAREDDY LIS STAGE-2&3					
36210 TO 18-A-23151-STAGE 3			<div></div> <div>BHARAT HEAVY ELECTRICALS LTD.</div> <div>BHOPAL</div>			NAME		SIGN	DATE	NO. OF VAR.	
STATUS OF DRAWING U						DRN	RKP		12.09.20		
DISTRIBUTION OF PRINTS						CKD	NS/BKS		12.09.20		
HGE - 1 HGM - 2						APPD	RG		12.09.20		
FWM - 2 TEX - 1										00	
REV.	DATE	ALTERED	DEPT.	UNTOL. DIMS. GR.		SCALE	WEIGHT(K.G.)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEM
		CHECKED	H.G.E.								
		APPD.	CODE	403	32500001404	1:10	51.55	0 251 06 89603		018	002
ZONE			TITLE					DRAWING NO.		REV.	
			<u>LIFTING BAR ASSY.</u>					3 251 06 89608		00	
								SHT. NO. 01	NO. OF SHT.	01	

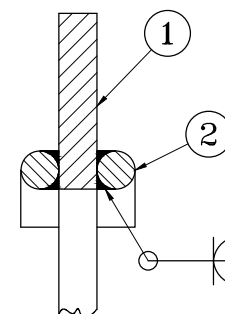
(ALL DIMENSIONS ARE IN mm)

Technical drawing of a mechanical part (Fig. 1.10) showing dimensions and features:

- Overall width: 444
- Overall height: 782
- Top left vertical dimension: 300
- Top right vertical dimension: 324
- Bottom right horizontal dimension: 284
- Internal vertical dimension: 250
- Internal horizontal dimension: 80
- Top left fillet: R20
- Bottom left fillet: R40
- Feature: CHAMFER 100X45°



ASSY.



SECTION-AA


TECHNICAL REQUIREMENTS:-


1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA0622101.
3. IT. 1 TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.

002				002		SLING PROTECTOR Ø40×188 APP.DEV.LG. S.S.S.Q. ROUND BAR		1						AA1010208160		NA		NO		1.85			
														AA10108									
001				001		LIFTING BAR 40TK. S.S.S.Q. PLATE		1						AA1011808196		NA		NO		76.2			
														AA10108									
59	64	65	75	78	79	25	27	29	58	59	60	77	29	31	34	45	55	56	57	58	65	72	
VAR00		REMARKS				VAR. NO.		ITEM NO.		DESCRIPTION			STD		DRAWING NO.			MATL. CODE		UNIT WT.		SS	
																		MATL. SPCN.		QTY.			
28 → CARD TYPE-3								28 → CARD TYPE-1					28 → CARD TYPE-2					28 → CARD TYPE-2					

ADDITIONAL INFORMATION	
W.O. NO.-36201 TO 09-A-23151-STAGE 2	
36210 TO 18-A-23151-STAGE 3	
STATUS OF DRAWING	U
DISTRIBUTION OF PRINTS	
HGE - 1	HGM - 2
FWM - 2	TEX - 1

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	HMS-713/170-24K PALAMURU RANGAREDDY LIS STAGE-2&3 (MEIL/TSGENCO)
--	--

	BHARAT HEAVY ELECTRICALS LTD. BHOPAL	DRN	RKP	OK	12.09.20	NO. OF VAR. 00
		CKD	NS/BKS	OK	12.09.20	
		APPD	RG	OK	12.09.20	

DEPT. H.G.E.	UNTOL. DIMS. GR.		SCALE	WEIGHT(K.G.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEM
CODE 403	32500001404		1:10	79.9	0 251 06 89603	019	002

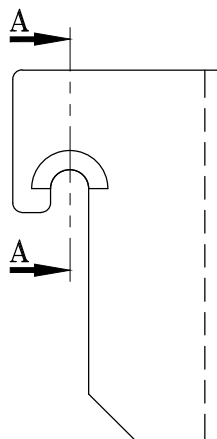
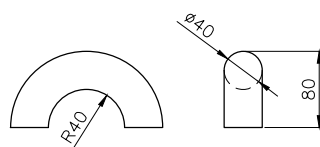
TITLE <u>LIFTING LUG ASSY.(LH)</u>	DRAWING NO. 3 251 06 89609		REV. 00
	SHT. NO. 01	NO. OF SHT.	01

<

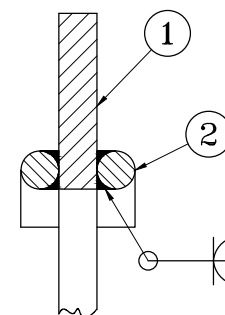
(ALL DIMENSIONS ARE IN mm)

Technical drawing of a mechanical part with the following dimensions and features:

- Overall width: 444
- Overall height: 782
- Top-left corner: R20
- Inner corner: R40
- Horizontal distance from left edge to inner corner: 300
- Vertical distance from top edge to inner corner: 250
- Horizontal distance from inner corner to right edge: 324
- Horizontal distance from left edge to bottom-left corner: 80
- Bottom-right corner: CHAMFER 100X45°
- Horizontal distance from left edge to bottom-right corner: 284



ASSY.



SECTION-AA





TECHNICAL REQUIREMENTS:-


1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA0622101.
3. IT. 1 TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.

002			002			SLING PROTECTOR ø40x188 APP.DEV.LG. S.S.S.Q. ROUND BAR			1						AA1010208160			NA		NO		1.85			
															AA10108										
001			001			LIFTING BAR 40TK. S.S.S.Q. PLATE			1						AA1011808196			NA		NO		76.2			
															AA10108										
59	64	65	75	78	79	25	27	29	58	59	60	77	29	31	34	45	55	57	58	65	72				
VAR00			REMARKS			VAR. NO.		ITEM NO.		DESCRIPTION			STD		DRAWING NO.			A C		UNIT		WT.			
																				68		71			
																						QTY.			
28 → CARD TYPE-3								28 → CARD TYPE-1					28 → CARD TYPE-2												

ADDITIONAL INFORMATION	
W.O. NO.-36201 TO 09-A-23151-STAGE 2	
36210 TO 18-A-23151-STAGE 3	
STATUS OF DRAWING	U
DISTRIBUTION OF PRINTS	
HGE - 1 HGM - 2	
FWM - 2 TEX - 1	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	HMS-713/170-24K PALAMURU RANGAREDDY LIS STAGE-2&3 (MEIL/TSGENCO)
--	--

	BHARAT HEAVY ELECTRICALS LTD. BHOPAL	NAME	SIGN	DATE	NO. OF VAR. 00	
		DRN	RKP			12.09.20
		CKD	NS/BKS			12.09.20
		APPD	RG			12.09.20

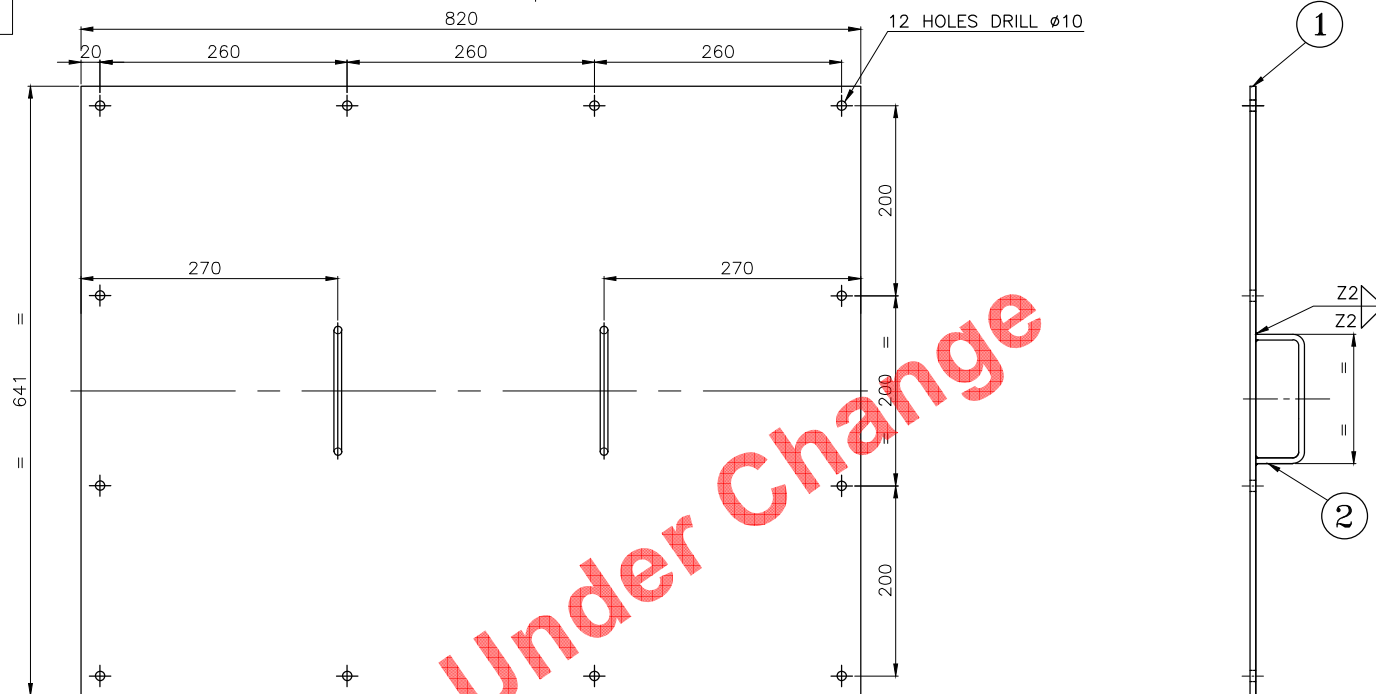
DEPT. H.G.E.	UNTOL. DIMS. GR.		SCALE	WEIGHT(K.G.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEM
CODE 403	32500001404		1:10	79.9	0 251 06 89603	020	002

TITLE <u>LIFTING LUG ASSY.(RH)</u>	DRAWING NO. 3 251 06 89610		REV. 00
	SHT. NO. 01	NO. OF SHT.	01

[illegible]

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3 251 06 89611







ASSY.

002				002				HANDLE				1		4 299 88 01009				001						NA		NO		0.08																																									
001				001				COVER 3.15TK.X641X820LG. C.R.C.STEEL SHEET				1								BP1011715996				NA		NO		12.96																																									
59				64				65				75				78				79				25		27		29				58				59		60				77		29		31		34				45		55		56		57		58				65				71	
VAR00				REMARKS				VAR. NO.				ITEM NO.				DESCRIPTION				STD		DRAWING NO.				IT.NO.		MATL. CODE				A		C		UNIT		WT.				QTY.																											
28				→ CARD TYPE-3				28				→ CARD TYPE-1				28				→ CARD TYPE-2																																																	

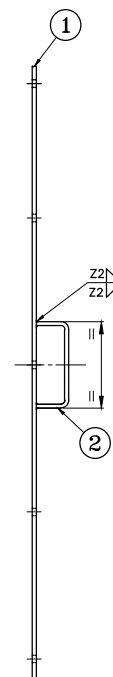
TECHNICAL REQUIREMENTS:-

1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA0622101.
3. PAINTING TO BE DONE AS PER PRODUCT STANDARD HG 12007.

ADDITIONAL INFORMATION			TYPE OF PRODUCT OR			HMS-713/170-24K				
W.O. NO.-36201 TO 09-A-23151-STAGE 2 36210 TO 18-A-23151-STAGE 3			NAME OF CUSTOMER/PROJECT			PALAMURU RANGAREDDY LIS STAGE-2&3 (MEIL/TSGENCO)				
STATUS OF DRAWING U			 BHARAT HEAVY ELECTRICALS LTD. BHOPAL			DRN	NAME	SIGN	DATE	NO. OF VAR.
DISTRIBUTION OF PRINTS HGE - 2 HGM - 2 FWM - 2 TEX - 1						CKD	NS/BK		12.09.20	
						APPD	RG		12.09.20	
									00	
REV.	DATE	ALTERED CHECKED APPD.	DEPT. H.G.E.	UNTOL. DIMS. GR.		SCALE	WEIGHT(K.G.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEM
			CODE 403	32500001404		1:5	13.12	0 251 06 89603	030	002
ZONE			TITLE <u>COVER ASSY.</u>					DRAWING NO. 3 251 06 89611		REV. 00
								SHT. NO. 01	NO. OF SHT.	01












(ALL DIMENSIONS ARE IN mm)

Technical drawing of a rectangular plate with dimensions and hole locations. The overall dimensions are 820 (width) and 967 (height). The drawing shows four vertical holes and four horizontal holes. The vertical holes are located at 20, 260, 520, and 780 from the left edge. The horizontal holes are located at 19.5, 232, 464, and 696 from the top edge. The distance between the vertical holes is 260, and the distance between the horizontal holes is 232. The distance from the left edge to the first vertical hole is 20, and the distance from the last vertical hole to the right edge is 260. The distance from the top edge to the first horizontal hole is 19.5, and the distance from the last horizontal hole to the bottom edge is 232. The drawing also shows a 14 HOLES DRILL Ø10.



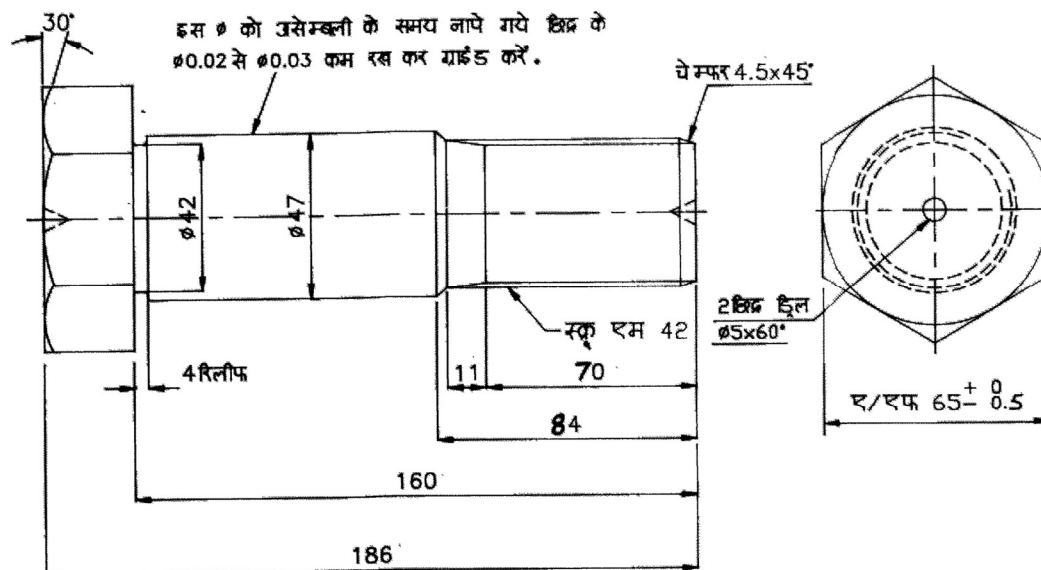
1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA0622101.
3. PAINTING TO BE DONE AS PER PRODUCT STANDARD HG 12007.

ASSY.

002				002				HANDLE				1	4 299 88 01009				001						NA	NO	0.08																																																										
001				001				COVER 3.15TK.X820X967LG. C.R.C.STEEL SHEET				1							BP1011715996 AA10115				NA	NO	19.57																																																										
59		64		65		75		78		79		25		27		29		58		59		60		77		29		31		34		45		55		56		57		58		UNIT WT.		65		70		72																																			
VAR00				REMARKS				VAR. NO.				ITEM NO.				DESCRIPTION				CLS	DRAWING NO.				IT.NO.		MATL. CODE				C	UNIT	MATL. SPCN.				54	68	QTY.				71		73																																						
28 → CARD TYPE-3																28 → CARD TYPE-1																28 → CARD TYPE-2																																																			
ADDITIONAL INFORMATION W.O. NO.-36201 TO 09-A-23151-STAGE 2 36210 TO 18-A-23151-STAGE 3																TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT																HMS-713/170-24K PALAMURU RANGAREDDY LIS STAGE-2&3 (MEIL/TSGENCO)																																																			
STATUS OF DRAWING																U																<div><div></div><div>BHARAT HEAVY ELECTRICALS LTD. BHOPAL</div></div> <table><tr><td>DRN</td><td colspan="2">NAME</td><td colspan="2">SIGN</td><td colspan="2">DATE</td><td colspan="2">NO. OF VAR.</td></tr><tr><td>CKD</td><td colspan="2">RKP</td><td colspan="2"></td><td colspan="2">12.09.20</td><td colspan="2"></td></tr><tr><td>APPD</td><td colspan="2">NS/BK</td><td colspan="2"></td><td colspan="2">12.09.20</td><td colspan="2"></td></tr><tr><td></td><td colspan="2">RG</td><td colspan="2"></td><td colspan="2">12.09.20</td><td colspan="2">00</td></tr></table>																DRN	NAME		SIGN		DATE		NO. OF VAR.		CKD	RKP				12.09.20				APPD	NS/BK				12.09.20					RG				12.09.20		00	
DRN	NAME		SIGN		DATE		NO. OF VAR.																																																																												
CKD	RKP				12.09.20																																																																														
APPD	NS/BK				12.09.20																																																																														
	RG				12.09.20		00																																																																												
DISTRIBUTION OF PRINTS HGE - 1 HGM - 2 FWM - 2 TEX - 1																																																																																			
REV.		DATE		ALTERED CHECKED APPD.		DEPT. H.G.E.		UNTOL. DIMS. GR.				SCALE		WEIGHT(K.G.)		REF. TO ASSY. DRG.				ITEM NO.		NO.OF ITEM																																																													
						CODE 403		32500001404				1:5		19.73		0 251 06 89603				021		002																																																													
ZONE																TITLE COVER ASSY.																DRAWING NO. 3 251 06 89618 SHT. NO. 01 NO. OF SHT. 01																																																			

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3-299-01-01 005



001

बी.एच.ई.एल. मे निर्माण हेतु:-

सामग्री:- ०75 कार्बन स्टील बार एए-10208 के अनुसार
सामग्री कोड :- एए1020208236

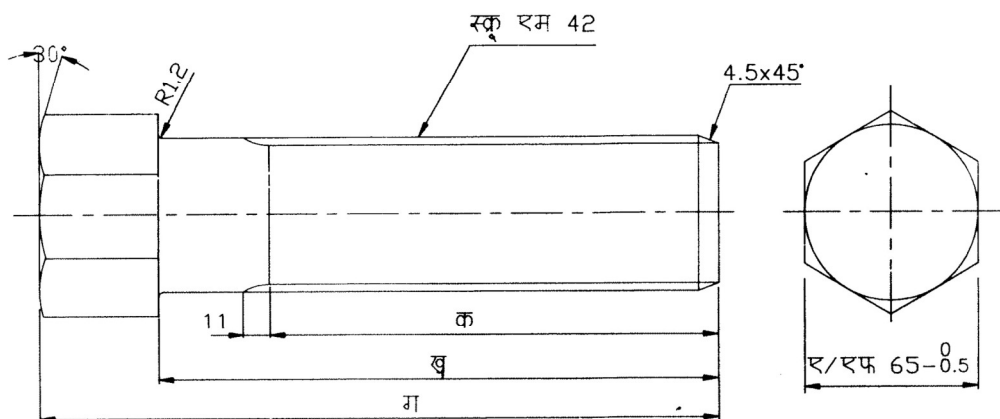
यह डाइंग क्र. 4-299-88-01501 को प्रतिस्थापित करती हैं।

VAR00				REMARKS TYPED ITEM				VAR. NO.		ITEM NO.		DESCRIPTION		STD		DRAWING NO.		2.7	
28 → CARD TYPE-3				28 → CARD TYPE-1				28 → CARD TYPE-2											

ADDITIONAL INFORMATION		उत्पाद का प्रकार या ग्राहक/परियोजना का नाम		मालक काई ग	
द्व. द.		हाइड्रो जनरे टर		सैनेधन मालक समुह द्वारा अनुमोदित हो	
STATUS OF DRAWING		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		सैनेधन मालक समुह द्वारा अनुमोदित हो	
मानक					
DISTRIBUTION OF PRINTS		भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल		वेरि की संख्या NO. OF VAR	
द्व.जीई. -1 पी.एल.एम. -4		BHARAT HEAVY ELECTRICALS LTD. BHOPAL		द्व. 1	
टी.सी.एस. (पी.एल.एम.)-1					

[illegible]

940 01 046 3-299-88-88-01 046



बी.एच.ई.एल. में निर्माण हेतु:-

सामग्री:- 890 कार्बन स्टील बार एच-10208 के अनुसार
 सामग्री संकेत : AA 1020208252

मद क.	क	ख	ग	वजन प्रति नम	टिप्पणी
001	100	130	156	2.1	
002	130	160	186	2.5	BP9013003923
003	170	200	226	2.9	
004	090	110	136	1.9	
005	080	100	126	1.7	

तकनीकी आवश्यकताएँ

- स्क IS-4218-1967 कोर्स पिच
 टलरेंस क्वालिटी:- मिडियम
 टलरेंस क्लास:- 6g
- बी.पी.0690084 के अनुसार टी.आर.पी. लगावें.
- बी.एच.ई.एल. से बाहर निर्माण हेतु सामग्री लिमन मानकों के अनुरूप हो:-
 - सामान्य आवश्यकताएँ IS-3138-1966
 - न्यूनतम वायु पी-320 न्यूनतम/मि.मी.²
 - न्यूनतम टेन्साइल स्ट्रेंथ-620 न्यूनतम/मि.मी.²
 - हार्डनेस-175 से 207 (BHN)
 - प्रसार (एलॉय स्टील) 5.65√S0 गेज लम्बाई पर-15% न्यूनतम.
 - ~~सामग्री कस्टम की न हो बात करने के लिये मेको चरित्र करें~~
 IS-1599 के अनुसार 90° बेफ टेस्ट करे.
- परीक्षण बार वास्तविक नाप की उपयोग 20 की हो जिसके किनारे 1.6 मि.मी.रेडियस में मोल हो.
- बेफ करने का रेडियस परीक्षण बार के डायमीटर के बराबर हो.
- परीक्षण बार परीक्षण के दौरान टूटना नहीं चाहिये तथा सुनी उसी द्वारा उसमें कोई दरार नहीं दिखाई देवे किनारे पर छोटी दरार स्वीकृत हैं.
- येड को सुरक्षित रखने हेतु येड के उपर 2 से 3 मि.मी.मोटी प्लास्टिक की स्लीव चढ़ावे जिसे उपयोग करते समय काट कर निकाला जा सके.
- बाहरी निर्माता को ड्राइंग क्र. 4-299-88-01020 के निर्देशों का पालन करना आवश्यक है.

ADDITIONAL INFORMATION

एन. ए.

STATUS OF DRAWING

मानक

DISTRIBUTION OF PRINTS

एच.जी.ई. -1 पी.एल.एम. -4
 टी.सी.एक्स. (पी.एल.एम.) -1

उत्पाद का प्रकार या ग्राहक/परिचयना का नाम

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

हाइड्रोजनरेटर

मानक ड्राइंग

संशोधन मानक समूह द्वारा अनुमोदित हो



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
 भोपाल
 BHARAT HEAVY ELECTRICALS LTD.
 BHOPAL

नाम/NAME	हस्ता/SIGN	दिनांक/DATE	वेर की संख्या NO. OF VAR
एम.के.सगदेव	हस्ता.	4.2.84	
आर.के.पाडेय	हस्ता.	4.2.84	एन. ए.

REV.	DATE	ALT.	BKS	REV.	DATE	ALTERED	विवरण
08	22.2.01	CKD.	APPD.	07	8-8-95	CHECKED	अनुमोदित
						APPROVED	
							मद क्रमांक 5 को जोड़ा गया है.
							त.आ. क्र. 3-2 से 3-5 के माफिजी गुण AA 10208 के अनुसार करने पर त.आ. 3-6 से 3-6.3 हटाई गई त.आ. -5 जोड़ी गई.

REV.	DATE	ALTERED	विवरण
06	10.6.95	CHECKED	अनुमोदित
		APPROVED	
			त.आ. 3.5 से 5.65√S0 गेज लम्बाई पहले नहीं थी. ड्राइंग को सीमांक पर बनाया गया

विभाग DEPT HGE	अनुमोदित नाम की त्रिणी UNTOLO.DIMS. GR.	अनुपात SCALE	भार (कै.ग्रा.) WEIGHT (K.G.)	उत्प्रे. ड्राइंग का संदर्भ REF. TO ASSY. DRG.	मद क. ITEM NO.	मद संख्या NO. OF ITEM
कोड CODE 403	3-250-00-01 404	1:2	एन. ए.	एन. ए.	एन. ए.	04
शीर्षक/ TITLE				ड्राइंग क्र./ DRAWING NO.	पुनः/REV	
स्कू एम-42				3-299-88-01 046	08	
SCREW M-42				पृष्ठ सं./SHEET NO. 01	पृष्ठों की संख्या/NO. OF SHEET. 01	

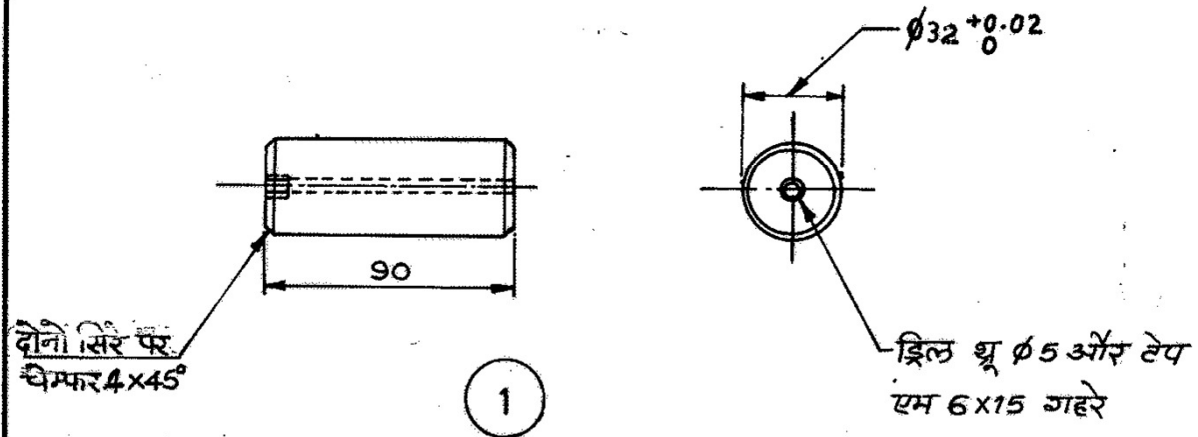
12 010-88-00-046

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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

REV. 05	DATE 8-8-94	ALTERED	REV. 04	DATE 18/5/91	ALTERED	ADDITIONAL INFORMATION
CHECKED			CHECKED			NA
ड्राइंग को हिन्दी में परिवर्तित किया गया. मुद्र. क्र. 1 को स्वीकृत करके एस. टी. - 300456 जोड़ा गया.			स्टेटस ऑफ ड्राइंग मानक			
डिस्ट्रीब्यूशन एच. जी. ई. पी. एल. एम. 4 OF PRINTS टी. सी. एल. एस. (पी. एल. एम.) 1						
REV. 06	DATE 12-12-91	ALTERED	REV. 06	DATE 12-12-91	ALTERED	मानक ड्राइंग
CHECKED			CHECKED			संशोधन मानक समुह द्वारा अनुमोदित हो.
DIM. $\phi 32^{+0.02}$ WAS $36^{+0.02}$			आनिर्देशित टालरेंसेस के लिये ड्रा. नं. 3-250-00-01404 देखें			



तकनीकी आवश्यकताएँ :-

1. बी.पी. 0690084 के अनुसार टी. आर. पी. लगावे.



REF. DRG. NO.	001	डॉवल $\phi 36 \times 90$ एस. एस. एस. क्यू. व्वाइ	एच 1010208152	0.570
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	UNIT WT.
(टाईप आइटम)	25	27	29	58
28	CARD TYPE-3	28	CARD TYPE-1	28
BPHARAT HEAVY ELECTRICALS LTD.		DRM.	NAME	SIGN
BHOPAL		CHD.	के. के. शर्मा	हस्ताक्षर
DEPT. एच. जी. ई.		APPD.	आर. के. पांडेय	हस्ताक्षर
GRADE OF UN.TOL. DIM.	SCALE	WEIGHT (Kg)	REF. TO ASSY. DRG.	ITEM NO.
403	1:25	0.57	NA	75
TITLE		CARD CODE	DRAWING NO.	NO. OF SHEETS
डॉवल $\phi 32$		4	4 - 2 99-88-01-001	1
			SHEET NO.	NO. OF SHEETS
			1	1

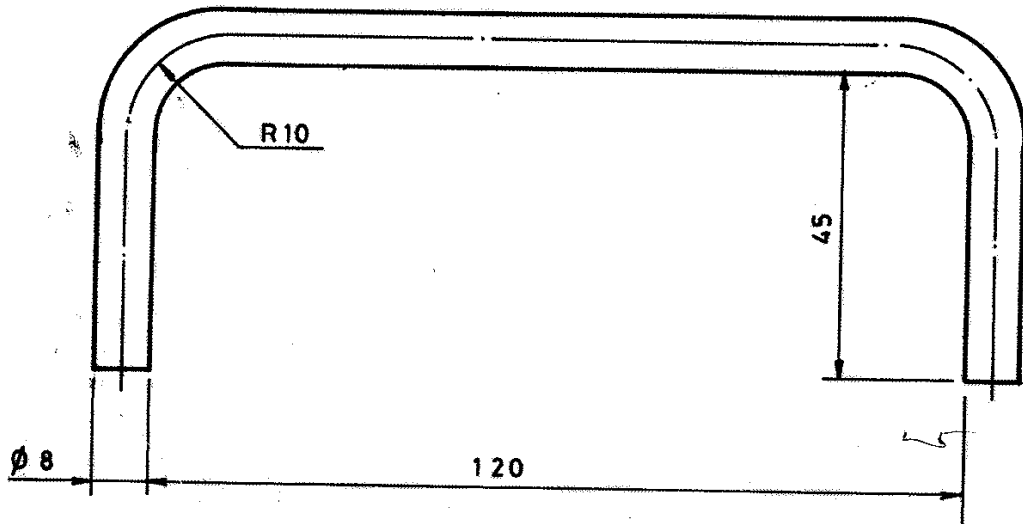
SIZE A4

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION
		CHECKED	02	6/11/97	CHECKED	STATUS OF DRAWING मानक
		APPROVED			APPROVED	DISTRIBUTION स्पष्टीकरण-1, पीस-4, OF PRINTS टीईएस(ईएस)-1, एचबीएस-7
ड्राइंग हिन्दी में परिवर्तित की गई सामग्री मानक एस 10108 के अनुसार की						मानक ड्राइंग
						पुनरीक्षण मानक समुह द्वारा अनुमोदित है.



1

डिजिटल ड्राइंग

REF. DRG. NO.	001	हथ्था Ø 8 X 228 लम्बा ब्राइट स्टील बार	एस 1010212036 एस 10112	0.08
REMARKS	ITEM NO.	DESCRIPTION	MATL. CODE	UNIT WT.
			MATL. SPECN.	QTY.
SIGN. & DATE	भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल BHARAT HEAVY ELECTRICALS LTD. BHOPAL		नाम/NAME रम. सचदेव एस. के. शर्मा आर. के. पांडे	हस्ता./SIGN हस्ता. हस्ता. हस्ता.
INVENTORY NO.	कोड 403 CODE 4250-00-01404	अनुपात SCALE 1:1	भार (कि.ग्र.) WEIGHT(K.G.) 0.08	ड्राइंग का संदर्भ REF. TO ASSY. DRG. लागू नहीं
	शीर्षक/TITLE हथ्था (हैन्डल)	ड्राइंग नं./DRAWING NO. 4 299 88 01009	पृष्ठ नं./SHT.No. 1	पृष्ठों की सं./NO. OF SHT. 1

A4 SIZE

FIRST ANGLE PROJECTION

(SEE DIMENSIONS AND TOLERANCES)

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	REV. 07	DATE 10-8-79	ALTERED	REV. 06	DATE 21-5-82	ALTERED	ADDITIONAL INFORMATION
	CHECKED			CHECKED			एन ए
	न.आ. 1 के 1.4, 1.5, 1.6, 1.8 जोड़ा गया।			मद क-1 को जोड़ा गया रचम.			STATUS OF DRAWING मानक
	न.आ. 2 में बदलाव किया गया है। नया नं. 901300322.2 एवं 3966 पहले नं. 300322 एवं 3966 था।			एस टी-300322 भी जोड़ा गया। न.आ. 3 जोड़ा गया।			DISTRIBUTION एवं नं. 1. वॉ पल क-4 OF PRINTS टी सी पक्स पी पल पस-1
							मानक ड्राइंग
							संशोधन मानक समूह द्वारा अनुमोदित है।
							आगे दी गई टालरेसेस के लिये ड्राइंग नं. 3-250-00-01404 देखें।
REV. 08 DATE 15-04-97 ALT. CKD- [Signature]							न.आ. नं. 6 पहले न्यूनतम प्रसार (एलंगेशन) 18% थी था.
REV. 09 DATE 15-06-04 ALT. CKD- [Signature]							न.आ. 1-2 टालरेस क्लास 7H था.

सज्जनीकी आवश्यकताएँ :-

- नट निम्न मानकी अनुरूप हो:
- सामान्य आवश्यकताएँ IS-3138-1966
- शेड IS 4218-1976 कीर्न पिच.
- टालरेस क्वालिटी - सीडियस.
- टालरेस क्लास - 6H.
- न्यूनतम वायु पी = 320 न्यूटन/मी.मी.²
- न्यूनतम टेंसिल स्ट्रेंथ 580-680 N/mm²
- हार्डनेस 170 TO 207 एच.वी.
- प्रसार (एलंगेशन) 5-65 V 50 गेज केवाई पर 18% न्यूनतम.

बीसी 9013003966	002	लॉक नट-42	3	0.44
बीसी 9013003222	001	नट पस-42	3	0.88

ITEM NO.	DESCRIPTION	MATL. CODE	UNIT WT.
25	27 28	48 53	68
25	27 28	48 53	68
25	27 28	48 53	68

28	CARD TYPE-3	28	CARD TYPE-1	28	CARD TYPE-2
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	BHARAT HEAVY ELECTRICALS LTD.		DRM. आर पस साहू	NAME	SIGN	DATE
	BHOPAL		CHD. मन्मथ श्रीवास्तव			13-11-79
			APPD. आर. के. जी			22-11-79

DEPT. 403	GRADE OF UN.TOL. DIM. 403	SCALE 1:2.5	WEIGHT (Kg) मद 1-0.88 मद 2-0.44	REF. TO ASSY. DRG. पस.प	ITEM NO. -	NO. OF ITEMS 02
-----------	---------------------------	-------------	---------------------------------	-------------------------	------------	-----------------

TITLE	नट (रुम-42)	CARD CODE	DRAWING NO. 4-299-88-01 502
लॉक नट (पस-42)			REV. 09

SIZE A 4



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

For Indian Bidders (Version June-2021, Rev: 06)

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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.

- 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 ROOM is located at: Room No. - 415, 4th 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 June-2021, Rev: 06)

- 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.
- 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.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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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 BHEL or without permission of BHEL.

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, L2Status 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) 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%.



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9. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY.

a) Where items of Purchase Order are independently usable.

Liquidated Damages (LD) 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.

Liquidated Damages (LD) 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 LD purpose.

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

i) Payment of Liquidated Damages (LD) shall not in any way relieve the vendor from any of its obligations & liabilities under the contract.

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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Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	No Loading
Against Delivery at BHEL-Stores Haridwar.	45
Against documents through bank (CAD):	45
Letter of Credit (LC)	120
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



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evaluation. However, bidder will have to pass on the benefit of IGST to BHEL at the time supply.

- 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. 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.



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- 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 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 LD 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 or under General Law.

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.



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- 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.
- j) Pandemic or Epidemic.

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 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 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 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 or to gain a commercial advantage. BHEL reserves the right to claim damages from the bidder, or take appropriate action as deemed fit against the bidder, for any infringement of the provisions contained herein as available under law or equity.

21. SETTLEMENT OF DISPUTES / ARBITRATION.

In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar.

The proceedings shall be conducted in English. The Governing law of contract shall be the substantive law of India.

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.

- a) "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



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(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 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.



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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."

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.



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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. 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,



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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.

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.

- Special conditions of enquiry, if enclosed by BHEL, will supersede the respective standard / general terms of enquiry.
 - Any other Standard terms and Conditions of the bidder attached / referred against the tender enquiry will be treated as null and void ab initio.
 - In order to protect the commercial interests of BHEL, it becomes necessary to take action against suppliers / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, 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>
 - 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.
 - "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;
- Victim:** Any person who suffers permanent disablement or dies in an accident as defined below.
 - Accident:** Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious

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



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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).

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."

f) The bidder shall be in compliance with applicable laws, rules and regulations throughout the terms of the contract for conducting its business generally and to perform its obligations under this contract.