

Terms & Conditions for PRE-FAB. M/C & FAB. only of Stator Frame & Spider Half Segment Assembly

The tender documents can be downloaded from our web site www.bhel.com or www.bhelhwr.co.in. Before submitting the tender, the bidders are required to go through the details mentioned below. Intending indigenous bidder may remit **Tender Fee of Rs. 2,000.00** against the tender, if documents (in hard copies) are required from BHEL. Bidder requiring tender documents in hard copies should remit currency in the form of Cash (as permissible under Income Tax Act) / Pay Order / Demand draft. **Earnest Money Deposit (EMD) of Rs. 200,000.00 is required to be submitted by the vendors against this tender. If Earnest Money Deposit (EMD) is not submitted along with offer, then the offer may be rejected.**

This tender enquiry is for domestic/indigenous vendors only.

Please submit Tender Fee (if required) in an envelope super-scribed with bold letters. Tender Fee (if required) is to be submitted with Part-I.

The date for opening of tender shall be 21.08.2021. Tenders will be received up to **1.45 P.M.** on **21.08.2021** and opened on the same day at **2.00 P.M.** in the Tender Room. **Please note that tender received after due date & time (1.45 PM on 21.08.2021) will not be opened.** BHEL will not be responsible for any type of postal / courier delay / incomplete information from vendor.

Bids shall be opened at 2.00 PM on the due date in the presence of authorized representative of the bidders who may like to be present. The authorized representative should bring authority letter from their parent company for the specific tender no. attending the bid opening.

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 for Stator Frame & Spider Half Segment Assembly with BHEL Material as per drg., QP & other specifications exclusively with BHEL Material.

Sl. No.	Item Description	Drg. No.	Qty.
1	STATOR FRAME	02510614703-00	02 No.
2.	SPIDER HALF SEGMENT ASSEMBLY	12520214701-00	04 No.

Remarks :-

1.1) FOR STATOR FRAME , 02510614703-00 ITEM 1-9 IS NOT IN SCOPE. REST ARE BHEL MATERIAL

1.2)

- a) CLEANING OF JOB AT BHEL IS IN THE SCOPE OF VENDOR.
- b) PAINTING IS IN THE SCOPE OF BHEL.
- c) INTERMEDIATE PAINT IF ANY IS TO BE DONE BY VENDOR AT THE TIME OF DISPATCH FROM VENDORS WORK.
- d) FINAL ACCEPTANCE OF JOB AFTER SUCCESSFUL CONTROL MARKING AT BHEL.
- e) TECHNOLOGICAL SUPPORT WILL BE IN THE SCOPE OF VENDOR.
- f) INTERMEDIATE SR (IF ANY) AND FINAL SR/SB (IF ANY) WILL BE IN THE SCOPE OF BHEL.
- g) DRAWINGS TECHNICAL REQUIREMENTS SHOULD BE FOLLOWED WHILE MANUFACTURING THE ITEMS.

➤ **Total load for the open tender enquiry (Approximately) = 132.052 MT.**

- The rate (s) should be quoted in Rupees/Kg. Common rates for all the items covered in this particular enquiry to be quoted.
- 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.

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 envelop 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 envelope duly sealed super scribing on the envelope "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.	Delivery
1	STATOR FRAME	02510614703-00	Within 60 days from last BHEL material sent
2.	SPIDER HALF SEGMENT ASSEMBLY	12520214701-00	Within 75 days from last BHEL material sent

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/216031 rev 00 dated 28.07.2021 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 accountal 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.
- 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.

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.

14. Bank Guarantee/Indemnity Bond: - 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.

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.
- 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 Approved Vendors registered in PMD AF-081 in HEEP, BHEL Ranipur are exempted from submission of EMD. Vendors may claim the same in their offers.

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 tender enquiry (version December-20, Rev:05) the bidder/vendor must ensure compliance of these GISTC (version December-20, Rev:05).

16.14 Unregistered vendors may please visit our site **www.bhel.com** for filing up the Supplier registration Form against PMD No. AF081.

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 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. **Transportation: -**
BHEL will send raw material to vendor works on freight paid basis and vendor to deliver fabricated/machined items to BHEL Haridwar at their own cost.
18. **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.
19. **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.

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 out rightly 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 contrac(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 BOTTOM BRACKET CENTRE ASSEMBLY, TOP BRACKET CENTRE ASSEMBLY, TOP BRACKET ARM ASSEMBLY AND BOTTOM BRACKET ARM ASSEMBLY. QUOTATION NOT IN ACCORDANCE WITH THE INSTRUCTIONS ARE LIABLE TO BE DISQUALIFIED AND IGNORED.

Annexure - A

PRE-FAB. M/C & FAB. ONLY OF BOTTOM BRACKET CENTRE ASSEMBLY, TOP BRACKET CENTRE ASSEMBLY, TOP BRACKET ARM ASSEMBLY AND BOTTOM BRACKET ARM ASSEMBLY

OpenTender Enquiry No.: X/6620/2021/0053/F/1

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

Authorised Signature :

(with date & seal of company)

Name of Supplier :-

TERMS AND CONDITIONS FOR Enquiry No.X/6620/2021/0054/F/1

SL.	TERMS	VENDOR'S ACCEPTANCE/ REMARKS
1	<u>Scope of Work:</u> - 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	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: Item wise as per clause 5 of T& C of enquiry	
6	Inspection shall be done as per clause no. 6 of Terms and Conditions of Enquiry	
7	90% after acceptance & final clearance of SRIV.10% after FTS and final account of material.	
8	LD clause is applicable @ 0.5% per week or part thereof with a maximum limit of 10% of the delayed portion of the PO.	
9	GST shall be applicable against documentary proof. Input Tax Credit shall be applicable and BHEL can claim benefit as per clause 10. of T & C of enquiry.	
10	Amendments of Extra/Less rates as per clause no. 11 of Terms and Conditions of Enquiry.	
11	We accept Reverse Auction (RA) clause as per standard policy of BHEL.	
12	We are MSME vendor and have submitted CA certificate based on latest audited year (Non MSME vendor to write NA)	
13	We accept Price Variation clause (PVC) as per standard policy of BHEL.	
14	Bank Guarantee/Indemnity Bond: 25% BG & 75% Indemnity bond	
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)	
17	Transportation: Confirm acceptance of clause 17 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 18 of T & C of Enq.	
19	Option Clause: Confirm acceptance of clause 19 of T&C of enquiry.	
20	We accept Risk Purchase clause as per standard policy of BHEL.	
21	We have submitted Make in India certificate (duly filled and signed as per Annexure-II).	
22	Rates have been quoted in Indian Rupees on per Kilo Gram basis.	
23	Signed and stamped Integrity pact is attached along with	

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)

PQR

Item : Stator Frame (FAB &M/C) (KALESHWARAM drg 02510614703-00)

PRE-QUALIFICATION REQUIREMENT

01.00	TECHNICAL REQUIREMENT	Required
01.01	Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of atleast 1 nos. Stator Frame (FAB&M/C) or simmler 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 ;Length 6500mm,width 1700 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 (milling-of the order of 3m length , drilling-of the order of dia 90mm depth 120 mm) etc. 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,phot ographs 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 (FAB&M/C) 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 (FAB &M/C) 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 restricitive

Abhishek
28/07/21
Abhishek Srivastava
SE,WT

Ameng
28/07/21
B. Ameng
AGM(WT)

PQR

Item : Spider Half Segment Assembly (KALESHWARAM drg. 12520214701-00)
PRE-QUALIFICATION REQUIREMENT

01.00	TECHNICAL REQUIREMENT	Required
01.01	Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of atleast 1 nos. Spider Half Segment Assembly or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Half segment of Dia 6000 mm and height 2000 mm ii) Lifting facility and capacity at vendor works should EOT crane 20 Tons and above. Sufficient Hook height to suit job requirements. iii) Vendor must have levelled bed size to fabricate and accomodate job of dimensions: Half segment of Dia 6000 mm, Height=2000 mm and above to fabricate the job. iv) Vendor must have cutting facility for accomadating plate of Dimension ;Length 6000 mm,width 3000 mm thickness 250 mm and above. v) Vendor must have rolling/bending facility to bend/roll cylinder of thickness 50 mm or above with width 1430 mm or above. vi) Vendor must have machining facility (milling , drilling etc) in order to meet the drawing requirement. 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 brouchre , 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 Spider Half Segment Assembly or equivalent job was supplied and used for Hydro Motor or Generator/power plant/capital goods/infrastructure application OR Vendor to submit documentry 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 Spider Half Segment Assembly 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
28/07/21
Abhishek Sumanth
SE, WT

Abhishek
28/07/21
BLMEING
AGM(WT)



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 02510614703 CBOM Var: 00
Description: STATOR FRAME (FAB.& M/C)

Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
02510614703	00	1	13.07.2021	-Route change in item no.1,6,23,24 ---- UNDER CHANGE ADVICE

CBOM - 02510614703 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgedk	11.05.2021	emtvme	25.05.2021	wtxdee	25.05.2021
Checked By	tgedk	21.05.2021	emtvme	25.05.2021	wtxabh	25.05.2021
Approved By	tgerks	25.05.2021	emtak	25.05.2021	wtxblm	25.05.2021



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 Description: STATOR FRAME (FAB.& M/C)

Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

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	02510614703 00			28507.0						
1(1)	STATOR FRAME (FAB.& M/C)			Y						
MF			Y		0306-0314-0306-0202-0205					
1	12510614701 00			703.2						
4(4)	JOINT BAR ASSY.			Y						
MF DR			N		0306					
1-1		AA1011819228	AA10119	364.2	580.0X2278.0	1	4	609.85	0.0	2439.4
1(4)	JOINT BAR (L.H.) SSSQ PLATE		IT 1 OF 12510614701	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0202-0306					KG
1-2		AA1011819228	AA10119	364.2	580.0X2278.0	1	4	609.85	0.0	2439.4
1(4)	JOINT BAR (R.H.) SSSQ PLATE		IT 2 OF 12510614701	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0202-0306					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	24	7.09	0.0	170.16
6(24)	FITTED BOLT M42X160			Y	RND 75					
MF					0072-0315-0202					KG
1-5		HW7121124637	AA7121124	0.195	0.0	0	0	0.0	0.0	60.0
15(60)	SCRU HEX B P-8.8		CUT TO SIZE M42X160	Y						
SI DR	M42X180				0074-0202					NO
1-6	42998801502 00	AA1020208236	AA10208	0.88	45.0	1	84	1.63	0.0	136.92
21(84)	NUT M42			Y	RND 75					
MF					0072-0315-0202					KG
1-7		AA1010209183	AA10109	1.86	195.0	1	8	3.15	0.0	25.2
2(8)	LIFTING BAR SSSQ		IT 7 OF 12510614701	Y	RND 50					
MF DR	ST-C20-HR-RND				0072-0315-0317-0306					KG
1-8		AA1011819139	AA10119	0.78	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				0072-0301-0306					KG

ENGG**EMT****WTX**

Initial

Date

Initial

Date

Initial

Date

Worked By

tgedk

11.05.2021

emtvme

25.05.2021

wtxdee

25.05.2021

Checked By

tgedk

21.05.2021

emtvme

25.05.2021

wtxabh

25.05.2021

Approved By

tgerks

25.05.2021

emtak

25.05.2021

wtxblm

25.05.2021



COMBINED BILL OF MATERIAL

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Printed By:

CBOM No: 02510614703 CBOM Var: 00
 Description: STATOR FRAME (FAB.& M/C)

Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

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		AA1011819031	AA10119	0.003	6.0X12.0	1	168	0.0035	0.0	0.588
42(168)	AA1011808030			Y	PL 6			To be send loose.		
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
1-10		AA1011819155	AA10119	0.88	50.0X90.0	1	32	0.92	0.0	29.44
8(32)	SUPPORT BAR		25TKX50X90	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
2	22510684612 00			960.0						
4(4)	TOP PLATE ASSEMBLY			Y						
MF DR			N		0306					
2-1		AA1011819171	AA10119	841.04	6350.0X1602.0	1	4	2683.1	0.0	10732.4
1(4)	TOP PLATE SEGMENT		ITEM 1 OF 22510684612	Y	PL 32			To be made in 2 parts		
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
2-2		AA1011819228	AA10119	59.35	300.0X450.0	1	8	62.3	0.0	498.4
2(8)	TOP PAD 56TKX300X450		IT 2 OF 22510684612	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3	22510614709 00			914.0						
4(4)	TOP INTERMEDIATE PLATE ASSLY			Y						
MF DR			N		0306					
3-1		AA1011819171	AA10119	910.0	6350.0X1659.0	1	4	2778.61	0.0	11114.44
1(4)	TOP INTERMEDIATE SEGMENT		IT 1 OF 22510614709	Y	PL 32			To be made in 2 parts		
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3-2		AA1071740130	AA10740	0.18	65.0X110.0	1	72	0.185	0.0	13.32
18(72)	COVER PLATE 3.15TKX65X110		IT 2 OF 22510614709	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET				0072-0321-0317-0306					KG
3-3		AA7121123126	AA7121123	0.014	0.0	0	0	0.0	0.0	144.0
36(144)	SCRU HEX A- 8.8			Y						
SI DR	M8X25				0074-0306					NO
3-4		AA7164002053	AA7164002	0.002	0.0	0	0	0.0	0.0	144.0
36(144)	WASHER SPRING LOCK SCB-ST			Y						
SI DR	8				0074-0306					NO

ENGG**EMT****WTX**

Worked By	tgedk	11.05.2021	emtvme	25.05.2021	wtxdee	25.05.2021
Checked By	tgedk	21.05.2021	emtvme	25.05.2021	wtxabh	25.05.2021
Approved By	tgerks	25.05.2021	emtak	25.05.2021	wtxblm	25.05.2021



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Printed By:

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Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

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
4	22510688603 00	AA1011808110	AA10108	454.0	6350.0X1658.0	1	12	1388.5	0.0	16662.0
12(12)	INTERMEDIATE PLATE			Y	PL 16					
MF DR					0072-0301-0306					KG
5	22510614708 00			1344.0						
4(4)	BOTTOM PLATE ASSLY. OF STATOR			Y						
MF DR			N		0306					
5-1		AA1011819198	AA10119	1142.0	6350.0X1658.0	1	4	3471.18	0.0	13884.72
1(4)	BOTTOM PLATE SEGMENT		IT 1 OF 22510614708	Y	PL 40			To be made in 2 parts		
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					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 22510614708	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
5-3		AA1071740130	AA10740	0.18	65.0X110.0	1	72	0.185	0.0	13.32
18(72)	COVER PLATE 3.15TKX65X110		ITEM 3 OF 22510614708	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET				0072-0321-0306					KG
5-4		AA7121123126	AA7121123	0.014	0.0	0	0	0.0	0.0	144.0
36(144)	SCRU HEX A- 8.8			Y						
SI DR	M8X25				0074-0306					NO
5-5		AA7164002053	AA7164002	0.002	0.0	0	0	0.0	0.0	144.0
36(144)	WASHER SPRING LOCK SCB-ST			Y						
SI DR	8				0074-0306					NO
6		AA1011052377	AA10152	4.34	360.0	1	272	0.36	0.0	97.92
272(272)	SPACER TUBE		IT 4 OF 22510614706	Y	PI 115.0X4.50					
MF DR	ST-ERW-TUBE				0072-0315-0317-0306					MR
7		AA1011808072	AA10108	4.56	1200.0X50.0	1	2	4.94	0.0	9.88
2(2)	TERMINAL PLATE		IT 5 OF 22510614706	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0317-0306					KG
8		AA1011808072	AA10108	2.1	145.0X179.0	1	16	2.13	0.0	34.08
16(16)	COOLER FACING PLATE		IT 1 OF 22510614706	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0317-0306					KG

ENGG**EMT****WTX**

	Initial	Date	Initial	Date	Initial	Date
Worked By	tgedk	11.05.2021	emtvme	25.05.2021	wtxdee	25.05.2021
Checked By	tgedk	21.05.2021	emtvme	25.05.2021	wtxabh	25.05.2021
Approved By	tgerks	25.05.2021	emtak	25.05.2021	wtxblm	25.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 02510614703 CBOM Var: 00
 Description: STATOR FRAME (FAB.& M/C)

Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

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
9		AA1011808110	AA10108	296.15	3433.0X782.0	1	2	354.0	0.0	708.0
2(2)	WRAPPER PLATE		IT 2 OF 22510614706	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
10		AA1011808110	AA10108	338.2	3433.0X782.0	1	6	354.0	0.0	2124.0
6(6)	WRAPPER PLATE		IT 3 OF 22510614706	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
11		AA1011808110	AA10108	11.4	240.0X782.0	1	16	24.75	0.0	396.0
16(16)	RIB		IT 6 OF 22510614706	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		IT 7 OF 22510614706	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		IT 8 OF 22510614706	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
14		AA1011808110	AA10108	6.7	175.0X782.0	1	32	18.04	0.0	577.28
32(32)	RIB		IT 9 OF 22510614706	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
15		AA1011808072	AA10108	23.4	354.0X1313.0	1	32	38.31	0.0	1225.92
32(32)	STIFFNER		IT 10 OF 22510614706	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0317-0306					KG
16		AA1011808072	AA10108	11.95	169.0X850.0	1	16	12.0	0.0	192.0
16(16)	COOLER FACING PLATE		IT 12 OF 22510614706	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
17		AA1011808072	AA10108	28.1	169.0X2000.0	1	8	28.15	0.0	225.2
8(8)	COOLER FACING PLATE		IT 11 OF 22510614706	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
18	32510684603 00			50.72						
4(4)	LIFTING BAR ASSY.			Y						
MF		N			0306					

ENGG**EMT****WTX**

Worked By	tgedk	11.05.2021	emtvme	25.05.2021	wtxdee	25.05.2021
Checked By	tgedk	21.05.2021	emtvme	25.05.2021	wtxabh	25.05.2021
Approved By	tgerks	25.05.2021	emtak	25.05.2021	wtxblm	25.05.2021



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 Description: STATOR FRAME (FAB.& M/C)

Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

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
18-1		AA1011819198	AA10119	47.2	782.0X340.0	1	4	87.66	0.0	350.64
1(4)	LIFTING BAR SSSQ		IT 1 OF 32510684603	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
18-2		AA1010209167	AA10109	1.85	188.0	1	8	1.94	0.0	15.52
2(8)	SLING PROTECTOR DIA 40 X188		IT 2 OF 32510684603	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
19	32510684604 00			81.2						
4(4)	LIFTING LUG ASSY (LH)			Y						
MF			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 32510684604	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
19-2		AA1010209167	AA10109	1.85	188.0	1	8	1.94	0.0	15.52
2(8)	SLING PROTECTOR DIA 40 X188		IT 2 OF 32510684604	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
20	32510684605 00			81.2						
4(4)	LIFTING LUG ASSY (RH)			Y						
MF			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 32510684605	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
20-2		AA1010209167	AA10109	1.85	188.0	1	8	1.94	0.0	15.52
2(8)	SLING PROTECTOR DIA 40 X188		IT 2 OF 32510684605	Y	RND 40					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
21	32510684606 00			5.44						
32(32)	COVER ASSY.			Y						
MF			N		0306					
21-1		AA1071740130	AA10740	5.28	305.0X700.0	1	32	5.5	0.0	176.0
1(32)	COVER		3.15TKX305X700	Y	SH 3.15					
MF DR	AUSTENITIC S.STEEL SHEET				0072-0321-0306					KG

ENGG**EMT****WTX**

Initial

Date

Initial

Date

Initial

Date

Worked By

tgedk

11.05.2021

emtvme

25.05.2021

wtxdee

25.05.2021

Checked By

tgedk

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emtvme

25.05.2021

wtxabh

25.05.2021

Approved By

tgerks

25.05.2021

emtak

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wtxblm

25.05.2021



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Revno: 0

Rev Date: 25.05.2021

Total weight: 28507.0

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
21-2	42998801009 00	AA1010209060	AA10109	0.08	330.0	0	0	1.0	0.21	64.21
2(64)	HANDLE			Y	RND 10					
MF DR	HANDLE				0072-0315-0306					KG
22		AA1011808072	AA10108	31.7	270.0X1494.0	1	16	26.59	0.0	425.44
16(16)	COOLER FACING PLATE		10TKx270x1494	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
23		AA7121123126	AA7121123	0.014	0.0	0	0	0.0	0.0	448.0
448(448)	SCRU HEX A- 8.8			Y						
SI DR	M8X25				0074-0315					NO
24		AA7164002053	AA7164002	0.002	0.0	0	0	0.0	0.0	448.0
448(448)	WASHER SPRING LOCK SCB-ST			Y						
SI DR	8				0074-0315					NO
25		AA1011808110	AA10108	0.4	150.0X30.0	1	2	0.59	0.0	1.18
2(2)	RIB		IT 13 OF 22510614706	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
26		AA1011819228	AA10119	4.29	100.0X100.0	1	16	4.6	0.0	73.6
16(16)	BLOCK		56TK X100X100	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
27	22510614706 00			0.0						
1(1)	STATOR FRAME DETAILS		REF DRG FR IT NO 6-17,25	Y						
MF DR			N		0306					

CB

ENGG

EMT

WTX

Worked By	tgedk	11.05.2021	emtvme	25.05.2021	wtxdee	25.05.2021
Checked By	tgedk	21.05.2021	emtvme	25.05.2021	wtxabh	25.05.2021
Approved By	tgerks	25.05.2021	emtak	25.05.2021	wtxblm	25.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12520214701 CBOM Var: 00 Revno: 0 Rev Date: 31.05.2021
Description: SPIDER HALF SEGMENT ASSEMBLY Total weight: 18230.0

RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
12520214701	00	1	14.07.2021	for route updation of item-2 ---- UNDER CHANGE ADVICE

CBOM - 12520214701 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgeshg	04.05.2021	emtmkm	22.05.2021	wtxdee	29.05.2021
Checked By	tgeshg	29.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgeasg	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12520214701 CBOM Var: 00 Revno: 0
Description: SPIDER HALF SEGMENT ASSEMBLY

Rev Date: 31.05.2021
Total weight: 18230.0

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	12520214701 00			18230.0						
1(1)	SPIDER HALF SEGMENT ASSEMBLY			Y						
MF DR	HMS-790/150-30K		N		0306-0202					
1	02520288601 00			0.0						
1(1)	DETAILS OF SPIDER			Y						
MF DR	HMS-790/150-30K		N		0306					
1-1		AA1011819422	AA10119	1604.0	1810.0X915.0	1	1	3412.7	0.0	3412.7
1(1)	LOWER DISC		IT 1 OF 02520288601	Y	PL 250					
MF DR	ST-FE410 WB-PLATE				0072-0301-0202-0306					KG
2		HW1011819988	AA10119	1546.0	2080.0X1050.0	1	1	3600.0	0.0	3600.0
1(1)	UPPER DISC		IT 2 OF 02520288601	Y	PL 200					
MF DR	ST-FE410 WB-PLATE				0072-0301-0202-0306					KG
3		AA1011819210	AA10119	1366.0	1430.0X2736.0	1	1	1612.4	0.0	1612.4
1(1)	HALF CYLINDER 50X1430X2436		IT 3 OF 02520288601	Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
4		AA1011819210	AA10119	4592.0	5828.0X2845.0	1	1	6833.3	0.0	6833.3
1(1)	LOWER PLATE 50THK		IT 4 OF 02520288601	Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
5		AA1011819155	AA10119	1952.0	5828.0X2845.0	1	1	3416.6	0.0	3416.6
1(1)	UPPER PLATE 25THK		IT 5 OF 02520288601	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
6		AA1011819287	AA10119	228.59	200.0X1790.0	1	5	295.0	0.0	1475.0
5(5)	KEY BAR 100X200X1790		IT 6 OF 02520288601	Y	PL 100					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
7		AA1011819260	AA10119	1104.0	1535.0X2459.0	1	1	2488.9	0.0	2488.9
1(1)	JOINT FLANGE 80X1535X2459		IT 7 OF 02520288601	Y	PL 80					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
8		AA1011819260	AA10119	1104.0	1535.0X2459.0	1	1	2488.9	0.0	2488.9
1(1)	JOINT FLANGE 80X1535X2459		IT 8 OF 02520288601	Y	PL 80					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgeshg	04.05.2021	emtmkm	22.05.2021	wtxdee	29.05.2021
Checked By	tgeshg	29.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgeasg	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12520214701 CBOM Var: 00 Revno: 0
Description: SPIDER HALF SEGMENT ASSEMBLY

Rev Date: 31.05.2021
Total weight: 18230.0

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
9		AA1011819139	AA10119	61.644	350.0X1421.0	1	4	81.98	0.0	327.92
4(4)	SUPPORT RING 20THKX350X1121.82		IT 9 OF 02520288601	Y	PL 20					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
10		AA1011819139	AA10119	26.87	350.0X789.0	1	1	45.5	0.0	45.5
1(1)	SUPPORT RING 20THKX350X488.91		IT 10 OF 02520288601	Y	PL 20					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
11		AA1011819139	AA10119	26.87	350.0X789.0	1	1	45.5	0.0	45.5
1(1)	SUPPORT RING 20THKX350X488.91		IT 11 OF 02520288601	Y	PL 20					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
12		AA1011819139	AA10119	30.92	1430.0X355.0	1	3	83.68	0.0	251.04
3(3)	STIFFNER 20X355X1430		IT 12 OF 02520288601	Y	PL 20					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
13		AA1011819198	AA10119	106.76	400.0X850.0	1	2	112.0	0.0	224.0
2(2)	JOINT PLATE 40X400X850		IT 13 OF 02520288601	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
14		AA1011819112	AA10119	5.18	200.0X300.0	1	18	7.9	0.0	142.2
18(18)	RIB 16X200X300		IT 14 OF 20X355X1430	Y	PL 16					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
15		AA1011819155	AA10119	553.5	1430.0X2005.0	1	3	590.8	0.0	1772.4
3(3)	RIB 25X1430X2005		IT 15 OF 02520288601	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
16		AA1010209124	AA10109	1.58	410.0	1	4	1.65	0.0	6.6
4(4)	LIFTING BAR DIA 25X410		IT 16 OF 02520288601	Y	RND 25					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
17	32520288601 00	AA1011819112	AA10119	9.65	1566.0X202.0	1	2	41.71	0.0	83.42
2(2)	BRAKE TRACK SUPPORT RING		IT 1 OF 32520288601	Y	PL 16					
MF DR					0072-0301-0317-0306					KG
18		AA1011819112	AA10119	9.15	1566.0X202.0	1	1	41.71	0.0	41.71
1(1)	BRAKE TRACK SUPPORT RING		IT 2 OF 32520288601	Y	PL 16					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG

ENGG**EMT****WTX**

Worked By	tgeshg	04.05.2021	emtmkm	22.05.2021	wtxdee	29.05.2021
Checked By	tgeshg	29.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgeasg	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12520214701 CBOM Var: 00 Revno: 0
Description: SPIDER HALF SEGMENT ASSEMBLY

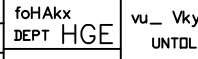
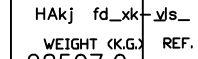
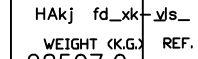
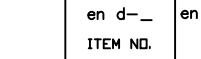
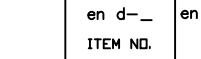
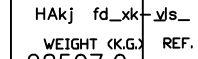
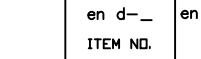
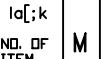
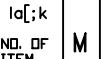
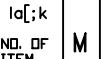
Rev Date: 31.05.2021
Total weight: 18230.0

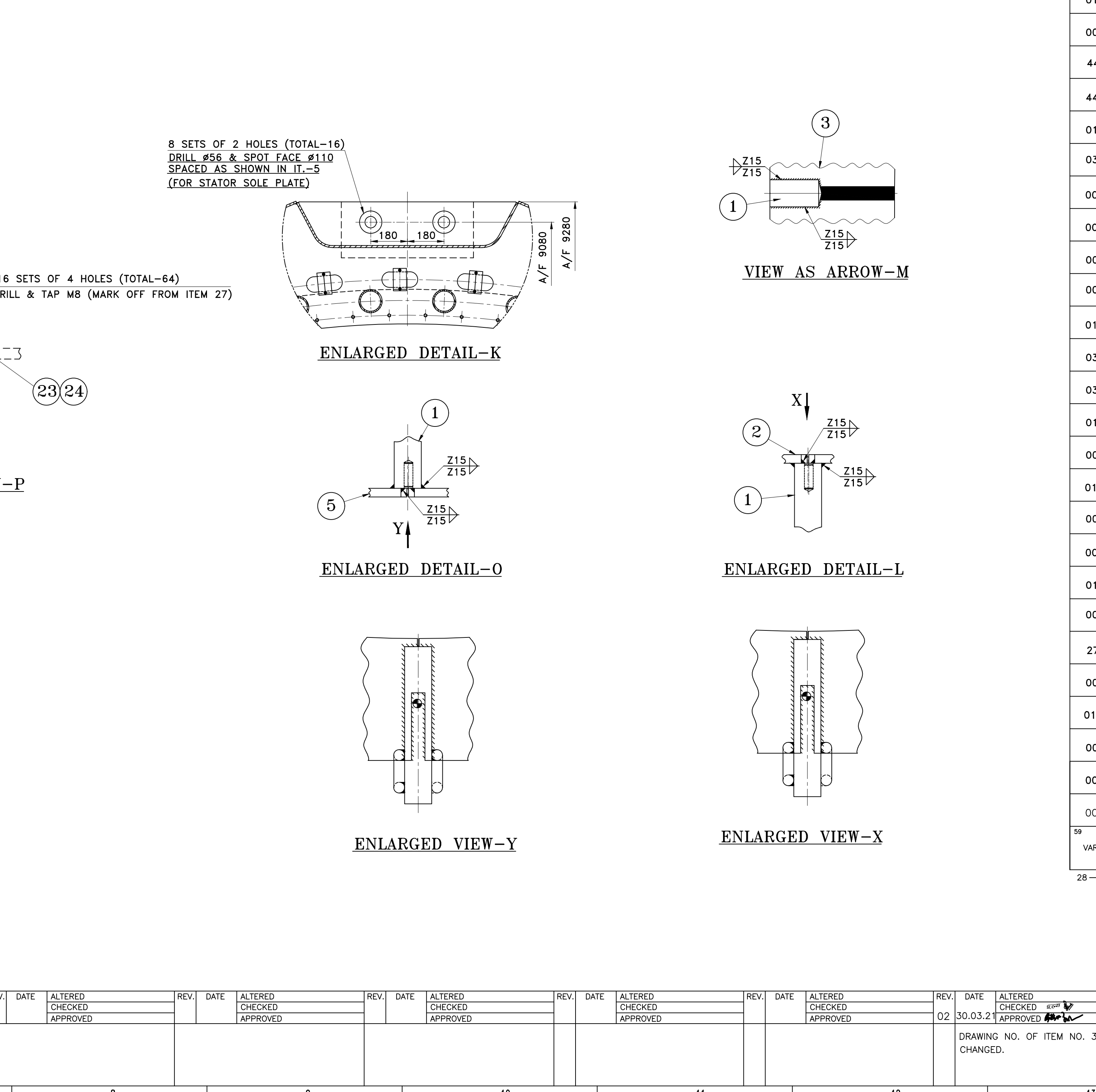
Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
19		AA1011819112	AA10119	9.15	1566.0X202.0	1	1	41.71	0.0	41.71
1(1)	BRAKE TRACK SUPPORT RING		IT 3 OF 32520288601	Y	PL 16					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
20		AA1011819112	AA10119	3.64	130.0X300.0	1	2	5.14	0.0	10.28
2(2)	RIB 16X130X300		IT 17 OF 02520288601	Y	PL 16					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
21		AA1011819155	AA10119	476.52	1430.0X2005.0	1	2	590.8	0.0	1181.6
2(2)	RIB 25X1430X2005		IT 18 OF 02520288601	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
22		AA1010209124	AA10109	0.77	200.0	1	12	0.8	0.0	9.6
12(12)	LIFTING BAR DIA 25X200		IT 19 OF 02520288601	Y	RND 25					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG

CBOM - 12520214701

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgeshg	04.05.2021	emtmkm	22.05.2021	wtxdee	29.05.2021
Checked By	tgeshg	29.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgeasg	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



ADDITIONAL INFORMATION W.O. NO. 30329 TO 36-A-23151				mānā de i-dā-jik xā-gōrāfānā de uke yā-gōrāfānā de uke OR NAME OF CUSTOMER/PROF.				HMS-700/150-30K PALAMURU RANGAREDDY LII'S STAGE-1 (IRRIGATION & C& DEPT. GOV. OF TELANGANA)																																											
STATUS OF DRAWING "U"				Hakki gash byēdāVārtā lēyēM  BHARAT HEAVY ELECTRICALS LTD. Bhopal				<table><tr><th>ISSUE NO.</th><th>ISSUED DATE</th><th>ISSUED BY</th><th>ISSUED FOR</th></tr><tr><td>1</td><td>10/11/85</td><td>RA/AD</td><td>13.02.21</td></tr><tr><td>2</td><td>10/11/85</td><td>RA/AD</td><td>13.02.21</td></tr></table>				ISSUE NO.	ISSUED DATE	ISSUED BY	ISSUED FOR	1	10/11/85	RA/AD	13.02.21	2	10/11/85	RA/AD	13.02.21																												
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DISTRIBUTION OF PRINTS HGB-3 HGM-4 FPM-7 TEX-1																																																			
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NO. 3 & 5				DUE TO CHANGE IN NEUTRAL TERMINAL. DRAWING UPDATED.																																															
STATOR FRAME (FAB. & M/C)				<table><tr><th>REV.</th><th>DATE</th><th>CHANGED</th><th>APPROVED</th><th>REASON</th><th>BY</th><th>DATE</th><th>REASON</th><th>BY</th><th>DATE</th></tr><tr><td>01</td><td>23.03.82</td><td>APPROVED</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				REV.	DATE	CHANGED	APPROVED	REASON	BY	DATE	REASON	BY	DATE	01	23.03.82	APPROVED								<table><tr><th>REV.</th><th>DATE</th><th>CHANGED</th><th>APPROVED</th><th>REASON</th><th>BY</th><th>DATE</th><th>REASON</th><th>BY</th><th>DATE</th></tr><tr><td>01</td><td>23.03.82</td><td>APPROVED</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				REV.	DATE	CHANGED	APPROVED	REASON	BY	DATE	REASON	BY	DATE	01	23.03.82	APPROVED							
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INVENTORY NO.	SIGN. & DATE	REF. DRG. NO.
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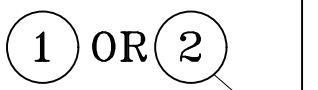
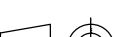


TABLE-2				
<u>FITTED BOLT & HOLES NO.</u>				
UNIT NO.	JOINT-1	JOINT-2	JOINT-3	JOINT-4
1	A9A97	B9B9	C9C9	D9D9
2	A10A10	B10B10	C10C10	D10D10
3	A11A11	B11B11	C11C11	D11D11
4	A12A12	B12B12	C12C12	D12D12
5	A13A13	B13B13	C13C13	D13D13
6	A14A14	B14B14	C14C14	D14D14
7	A15A15	B15B15	C15C15	D15D15
8	A16A16	B16B16	C16C16	D16D16

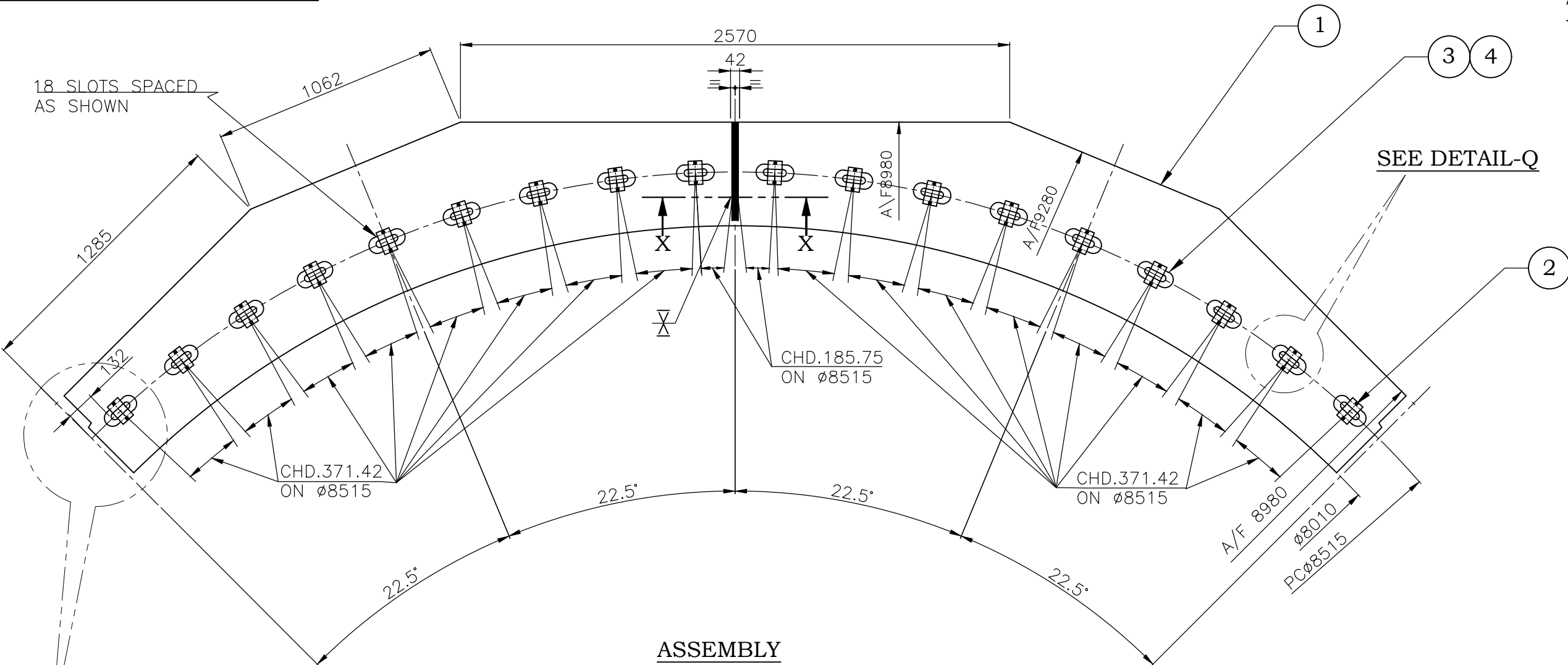
TECHNICAL REQUIREMENTS:-

1. PLATES USED FOR JOINT BARS ITEMS 1 & 2 ARE TO BE FLATTENED WITHIN ± 1.5 MM. AFTER FLAME CUTTING.
2. JOINT BARS ARE TO BE STAMPED / PUNCHED & MAINTAINED AS A PAIR FOR EACH UNIT AS PER TABLE-1 AT LOCATION MARKED ^(B).
3. STAMPING LOCATION SHOWN THUS ^(M) TO BE DONE AFTER MACHINING, DRILLING & REAMING BUT BEFORE SENDING TO FABRICATION FOR EACH REAMED HOLE & ITS FITTED BOLT AS PER TABLE -2.
4. AFTER MACHINING, CLAMPING BAR IT. 8 TO BE REMOVED FROM IT.1&2 AND SPOT TO BE DRESSED UP.
5. ALL WELDS ARE OF GR III TO AA0622101.
6. SURFACE FINISH OF THE MACHINED SURFACES SHALL BE 3.2 MICRONS OR BETTER
7. MATCH HOLE & MATCHING FITTED BOLT IT.4 & STAMP IN LOCATION MARKED THUS ^(N) ON FACES SHOWN BEFORE SENDING TO FABRICATION.
8. SUPPORT BAR ITEM 10 NOT TO BE REMOVED IN HGM AT THIS STAGE. THESE ARE TO BE REMOVED AFTER COMPLETE WELDING & FABRICATION OF STATOR FRAME.
9. DIMENSIONS MARKED THUS * ARE FOR D.O. REF. ONLY.
10. LOCKING BAR IT. 9 SHALL BE SUPPLIED LOSSE AND TO BE WELDED DURING STATOR ASSEMBLY AT SITE.

28 → CARD TYPE-3			28 → CARD TYPE-1			28 → CARD TYPE-2		
ADDITIONAL INFORMATION W.O.-303 29 TO 36 A 23151 STATUS OF DRAWING <u>U</u>			mRikn dk i-dkj;k xk-gd@fj;ksutk dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			HMS-790/150-30K PALAMURU RANGAREDDY LHS STAGE-1, PACKAGE-1 (IRRIGURU & CAD DEPT, GOVT. OF TELANGANA)		
DISTRIBUTION OF PRINTS HGE - 3 TEX - 1 HGM - 4 FWM - 4			 HAKjr gsho bysIDV&dYl tyfeVsM Haksiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL			cuk;k DRN. ILA RG uke@ NAME gLrk.eGIGNInauk&BATE 13.02.21 13.02.21		
foHkax DEPT. HGE UNTOL. DIMS. GR. dksM CODE 403 'Ah'AZHLE			wu...yki dh Jskth 3 250 00 01404  vuqjr SCALE NTS			HAKjr gsho bysIDV&dYl tyfeVsM 703.2 (M/C) wu...yki dh Jskth 0 251 06 14703 REF. TO ASSY. DRG. 001 M&kbox dBr&wING NO. 1 251 06 14701 00		
9			10			11		
						12		

JOINT BAR ASSY.

DRG. NO. 2 251 06 14709

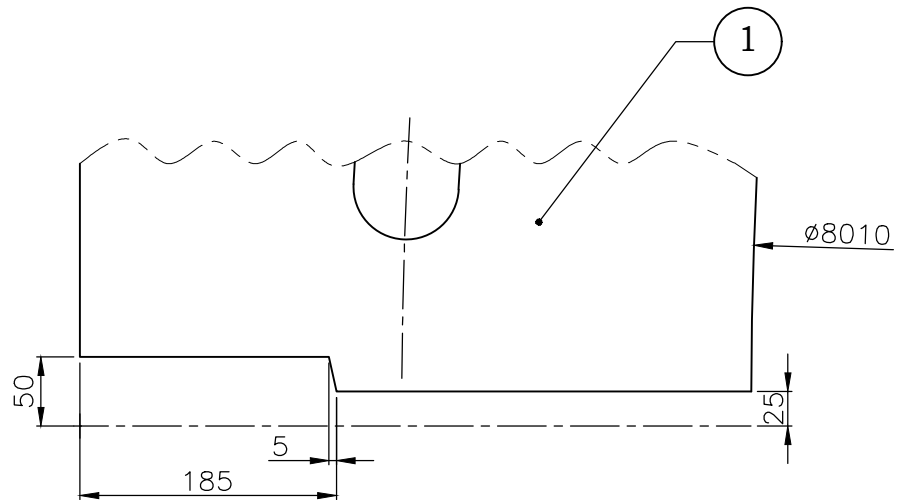


SEE DETAIL-P

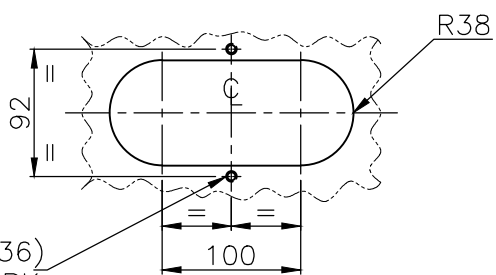
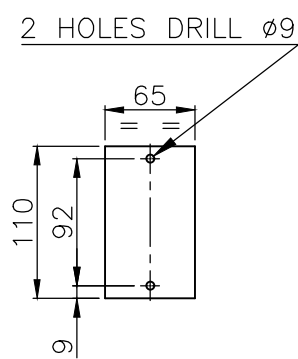
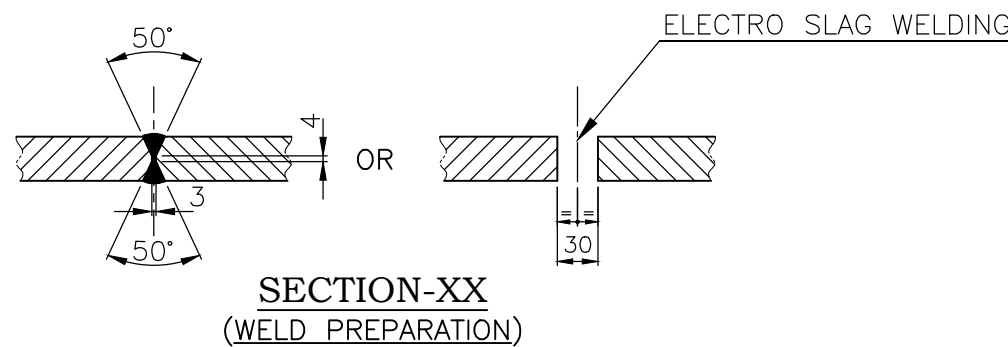
SEE DETAIL-Q

TECHNICAL REQUIREMENTS:-

1. ALL WELDS ARE TO GR.III TO AA0622101..
2. ALL WELDS TO BE CRACK DETECTED BY DP TO BP 0850199.
3. PLATE ITEM 001 AFTER WELDING, TO BE FLATTENED WITHIN 2mm.
4. AFTER FLATTENING, RADIUS OF ITEM 1 TO BE CHECKED ON ASSEMBLY LAY OUT.
5. ITEMS TO BE CUT BY ELECTRONIC FLAME CUTTING.
6. ALL SHARP EDGES TO BE ROUNDED OFF.



ENLARGED DETAIL-P



18 SET OF 2 HOLES (TOTAL-36)
DRILL & TAP M8x20 DEEP MARK
OFF ON TOP SIDE

ENLARGED DETAIL-Q

[illegible]

28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

ADDITIONAL INFORMATION
W.O. NO. 30329T036-A-23151

mRikn dk i-dkj ;k xk-gd@ifj;kstuk dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	HMS-790/150-30K PALAMURU RANGAREDDY LIS STAGE-1,PACKAGE-1 (IRRIGATION & CAD DEPT, GOVT. OF TELANGANA)
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DISTRIBUTION OF PRINTS	
HGE- 1	FWM- 2
HGM- 2	TEX- 1



HAKjr gsoh bysfDV&dYl fyfeVSM
HAKsiky
BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

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ILA	इला	30.03.21	NO. O
RG	रग	30.03.21	VAR. 00

HAKE DEPT CODE 403 kh"AZ	Vky_uki dh Js.kh UNTOL. DIMS. GR. 3-250-00-01404		vuqkr SCALE NTS	HAK(fd_x WEIGHT (K.G.) 914
<u>TOP INTERMEDIATE PLATE</u> <u>ASSY. OF STATOR FRAME</u>				
\LvsVj \zse dh VWki buVjehfM;sV lyVs vlsEcyh				

-ls_M&kbZax dk lanHAZ REF. TO ASSY. DRG. 0 251 06 14703	en d-- ITEM NO. 003	en la; NO. OF ITEM 004
M&kbZax DRAWING NO. 2 251 06 14709		iqu- REV. 00
="B d<SHT. NO. 01="Bksa dh la; NO. OF SHT. 0		

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

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REF. DRG. NO.

SIGN AND DATE

INVENTORY NO.

1

2

3

4

5

6

7

8

A2

IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.



1. ALL WELDS ARE TO GR.III TO AA0622101.
2. ALL WELDS TO BE CRACK DETECTED BY DP TO BP 0850199.
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 CNC FLAME CUTTING.
6. ALL SHARP EDGES TO BE ROUNDED OFF.
7. IT.1 TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.



28 → CARD TYPE-3

STATUS OF DRAWING U



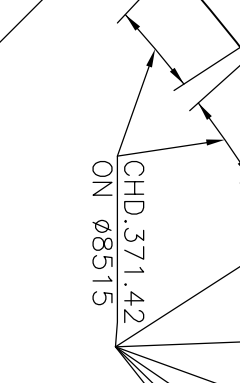
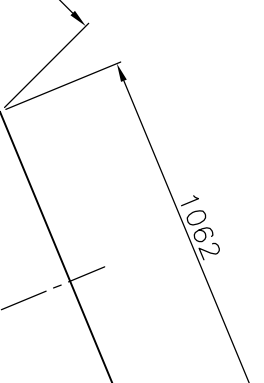
विभाग DEPT	HGE	अन.टाल.नाप की श्रेणी UNTOL. DIMS. GR.
कोड CODE	403	3-250-00-01404

(२८८१ फ़म का टाय लट असम्बन्ध)

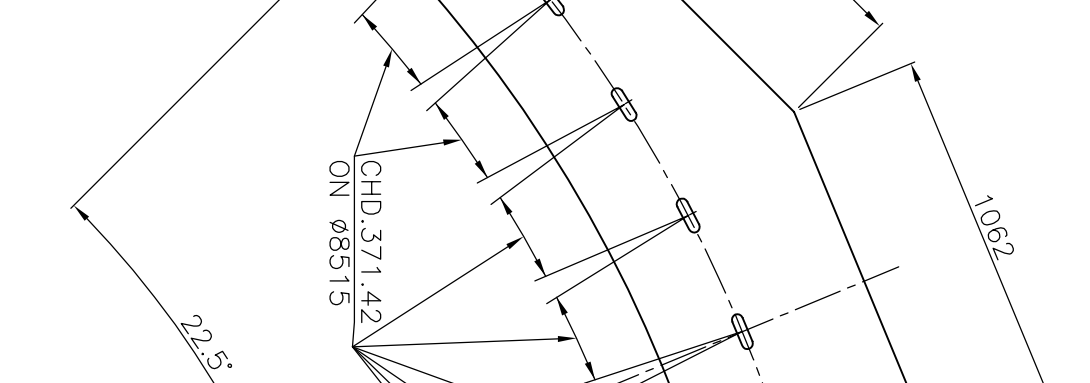
REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
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22.



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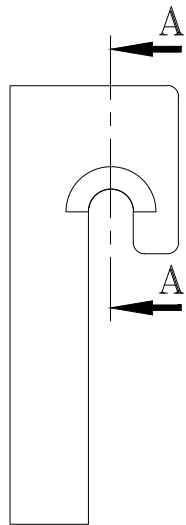
Technical drawing of a mechanical part showing a curved surface. The drawing includes the following dimensions and labels:

- 1062 (Overall length)
- 22.5 (Radius of the curved surface)
- CHD. 371.42 (Chordal height)
- ON Ø85.15 (Nominal diameter of the hole)

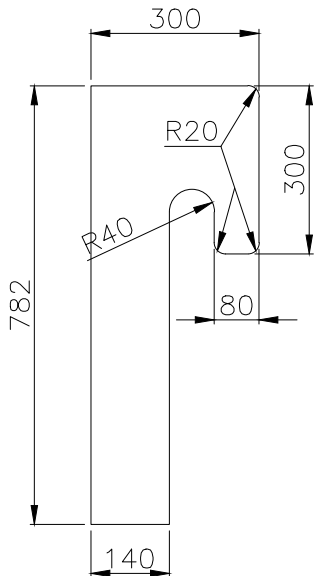
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

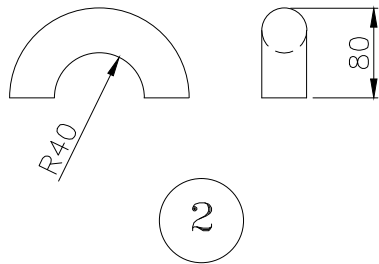
DRG. NO. 3 251 06 84603



ASSY.

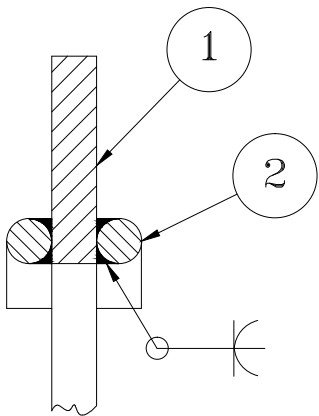


1



TECHNICAL REQUIREMENTS:-

1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA 0622101.



SECTION-AA

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28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

ADDITIONAL INFORMATION
W.O.-39008 TO 12 A 23151

STATUS OF DRAWING U

DISTRIBUTION OF PRINTS

HGE-3 HGM-4
TEX-1 FWM-7

उत्पाद का प्रकार या
ग्राहक/परियोजना का नाम
TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT

HMS-795/150-28K
MEIL/PRANHITA -VIII LIS MOTOR

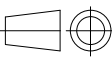


भारत हेवी इलेक्ट्रिकल्स लिमिटेड
भोपाल
BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

नाम/NAME	हस्ता./SIGN	दिनांक/DATE	वे. रि. की संख्या NO. OF VAR
KAMAL\BKS	श्रीकांत	18.01.16	
KP	P. K.	18.01.16	
DKC/MGS	श्रीकांत	18.01.16	00

विभाग
DEPT HGE
कोड
CODE 403

अन.टोल.नाप की त्रैणी
UN TOL.DIMS. GR.



अनुपात
SCALE
NTS

भार कि.ग्रा.
WEIGHT (K.G.)
50.72

असे.ड्राईंग का संदर्भ
REF. TO ASSY. DRG.
0 251 06 84602

मद क.
ITEM NO.
018

मद संख्या
NO. OF
ITEM
002

शीर्षक/TITLE

LIFTING BAR ASSY

ड्राईंग क./DRAWING NO.

3 251 06 84603

पुन./REV.

00

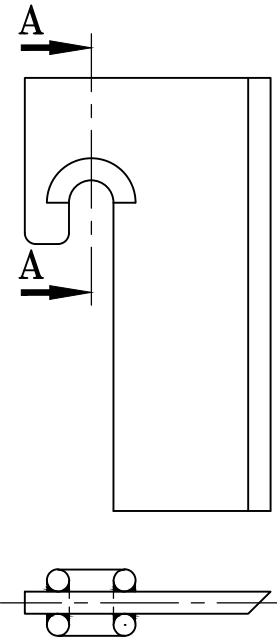
पृष्ठ क./SHT. No. 01 पृष्ठों की संख्या/NO. OF SHT.01

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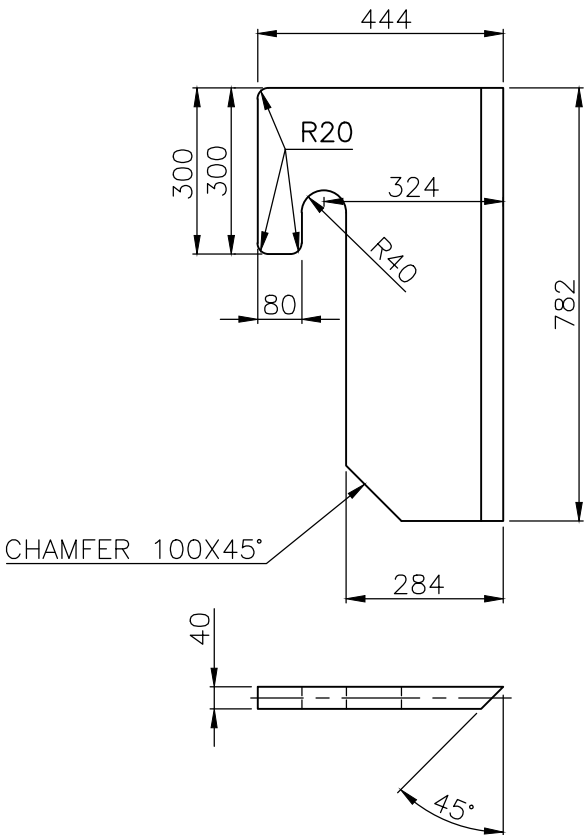
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

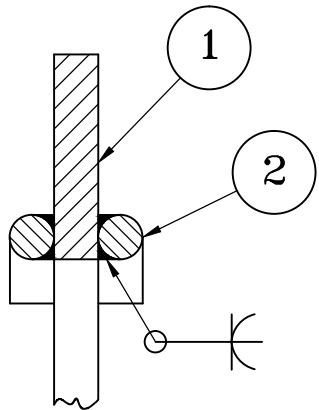
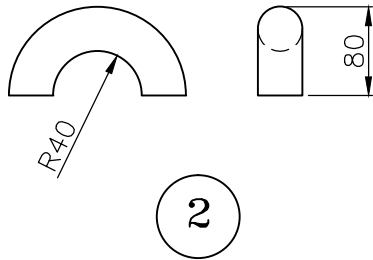
DRG. NO. 3 251 06 84604



ASSY.



CHAMFER 100X45°



SECTION-AA

TECHNICAL REQUIREMENTS:-

1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA 0622101.

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28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

ADDITIONAL INFORMATION
W.O.-39008 TO 12 A 23151

STATUS OF DRAWING U

DISTRIBUTION OF PRINTS

HGE-3 HGM-4
TEX-1 FWM-7

उत्पाद का प्रकार या
ग्राहक/परियोजना का नाम
TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT

HMS-795/150-28K
MEIL/PRANHITA -VIII LIS MOTOR



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
भोपाल
BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

नाम/NAME	हस्ता./SIGN	दिनांक/DATE	वे.र. की संख्या NO. OF VAR
KAMAL/BKS	...	18.01.16	
KP	...	18.01.16	00
DKC/MGS	...	18.01.16	

विभाग DEPT	अन.टोल.माप की त्रुटि UN TOL.DIMS. GR.	अनुपात SCALE	भार कि.ग्रा. WEIGHT (K.G.)	असे.ड्राईंग का संदर्भ REF. TO ASSY. DRG.	मद क. ITEM NO.	मद संख्या NO. OF ITEM
HGE	3-250-00-01404	NTS	81.2	0 251 06 84602	019	002

शीर्षक/TITLE
LIFTING LUG ASSY.(LH)

ड्राईंग क्र./DRAWING NO.
3 251 06 84604

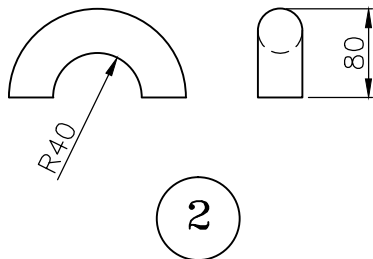
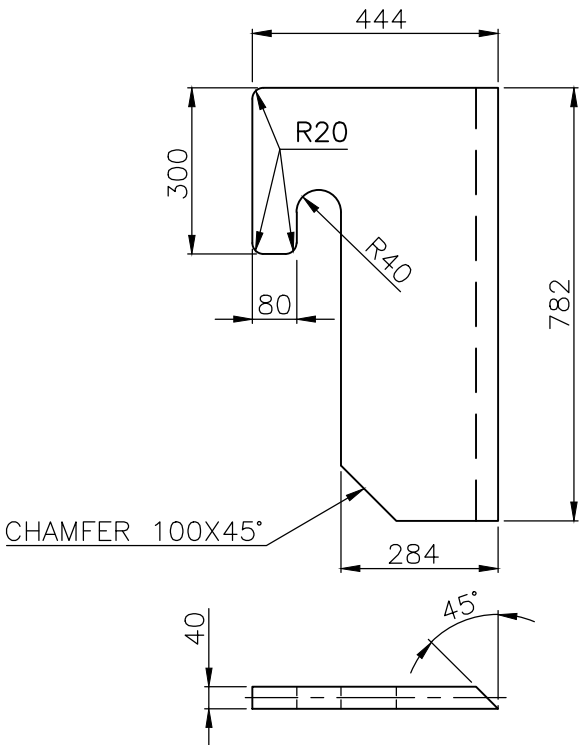
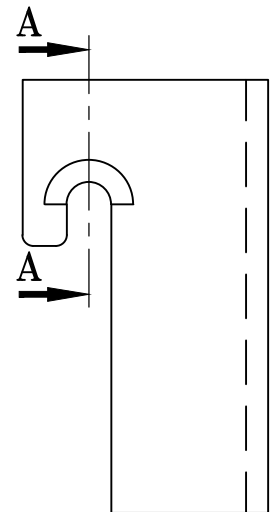
पृष्ठ क्र./SHT. No. 01 पृष्ठों की संख्या/NO. OF SHT.01

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

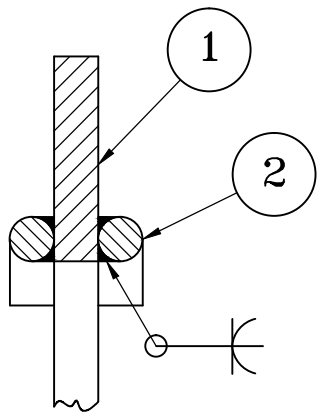
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3 251 06 84605



ASSY.



SECTION-AA

TECHNICAL REQUIREMENTS:-

1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA 0622101.

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 40 TK. S.S.S.Q. PLATE	1				AA1011819198	NA	NO	77.5								
									AA10119											
59	64	65	75	78 79	25	27	29	58	59	60	77	29	31	34	45	55	56	58	65	72
VAR00			REMARKS		VAR. NO.	ITEM NO.	DESCRIPTION	STD		DRAWING NO.		IT.NO.		MATL. CODE		A	UNIT	UNIT WT.		
												32	33	46	54	C		68	71	CS
												VAR.		MATL. SPCN.				QTY.		
28 → CARD TYPE-3							28 → CARD TYPE-1					28 → CARD TYPE-2								

ADDITIONAL INFORMATION
W.O.-39008 TO 12 A 23151

STATUS OF DRAWING U

DISTRIBUTION OF PRINTS

HGE-3 HGM-4
TEX-1 FWM-7

उत्पाद का प्रकार या
ग्राहक/परियोजना का नाम
TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT

HMS-795/150-28K
MEIL/PRANHITA -VIII LIS MOTOR



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
भोपाल
BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

नाम/NAME	हस्ता/SIGN	दिनांक/DATE	वे. र. की संख्या NO. OF VAR
KAMAL/BKS	कामल	18.01.16	
KP	कपूर	18.01.16	
DKC/MGS	डिक	18.01.16	00

विभाग DEPT	अन.टोल.नाप की त्रुटि UN TOL.DIMS. GR.	अनुपात SCALE	भार कि.ग्रा. WEIGHT (K.G.)	असे.ड्राईंग का संदर्भ REF. TO ASSY. DRG.	मद क. ITEM NO.	मद संख्या NO. OF ITEM
HGE	3-250-00-01404	NTS	81.2	0 251 06 84602	020	002

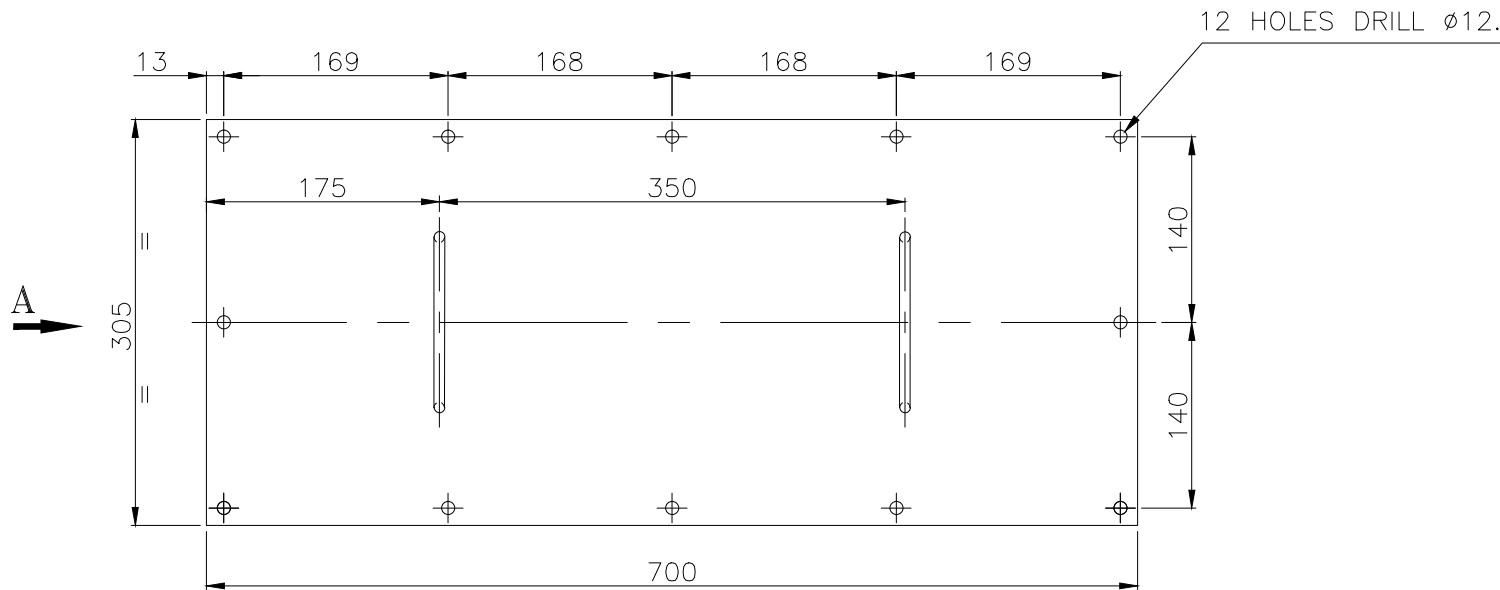
शीर्षक/TITLE	ड्राईंग क्र./DRAWING NO.	पृष्ठ क./SHT. No.	पृष्ठों की संख्या/NO. OF SHT.01
LIFTING LUG ASSY.(RH)	3 251 06 84605	01	

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

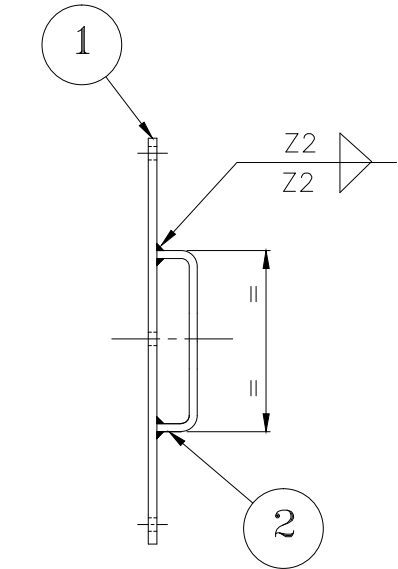
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

3 251 06 84606 DRG. NO.



ASSY.



VIEW AS ARROW-A

TECHNICAL REQUIREMENTS:-

1. ALL SHARP EDGES TO BE ROUNDED OFF.
2. ALL WELDS TO GR. III TO AA 0622101.

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28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

ADDITIONAL INFORMATION
W.O.-39008 TO 12 A 23151

STATUS OF DRAWING
U

DISTRIBUTION OF PRINTS

HGE-3 HGM-4
TEX-1 FWM-7

उत्पाद का प्रकार या
ग्राहक/परियोजना का नाम
TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
भोपाल
BHARAT HEAVY ELECTRICALS LTD.
BHOPAL

HMS-795/150-28K
MEIL/PRANHITA -VIII LIS MOTOR

नाम/NAME	हस्ता/SIGN	दिनांक/DATE	वे.रि. की संख्या NO. OF VAR
KAMAL/BKS		18.01.16	
KP		18.01.16	
DKC/MGS		18.01.16	00

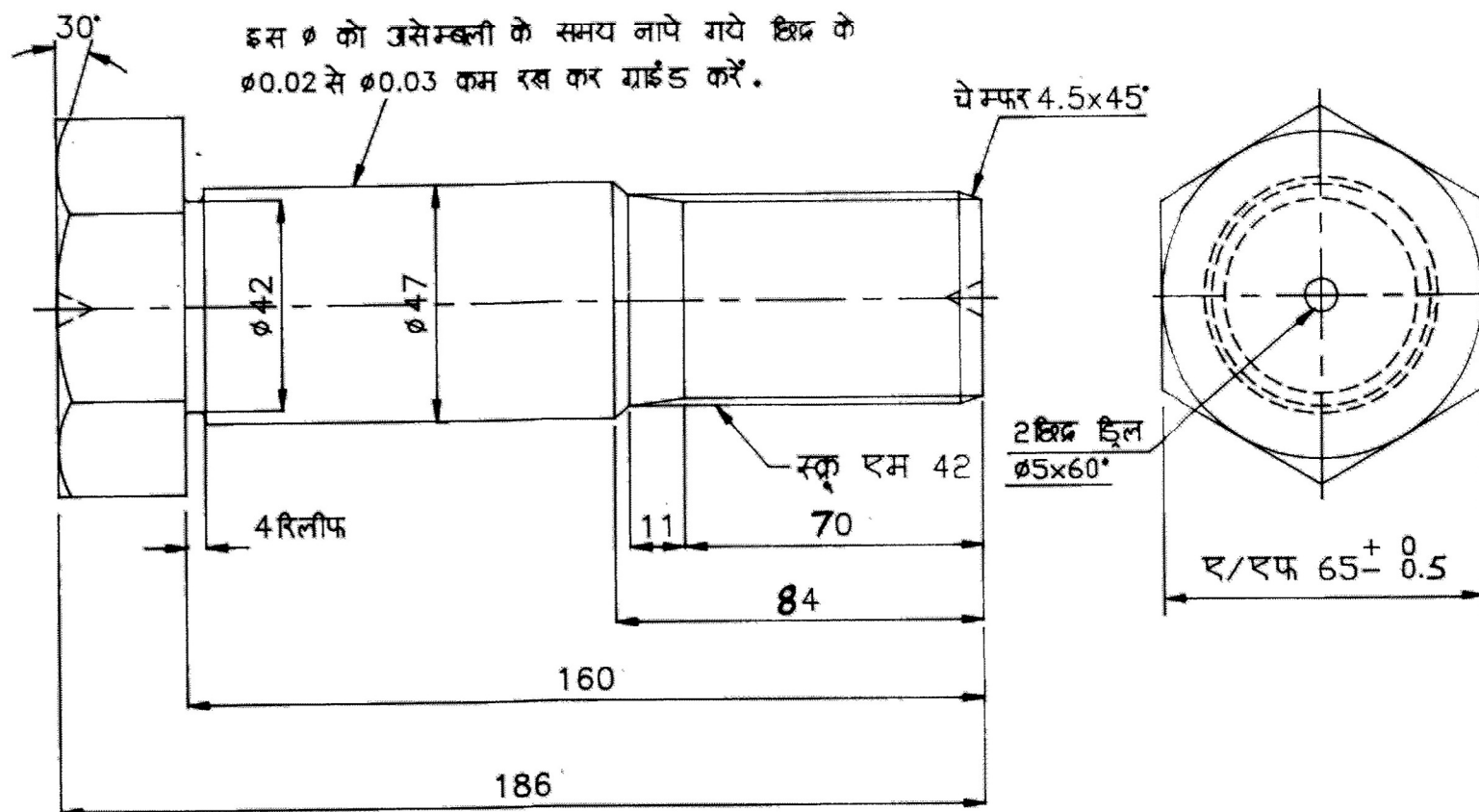
विभाग DEPT HGE	अन.टोल.नाप की श्रेणी UN TOL.DIMS. GR.	अनुपात SCALE NTS	भार.कि.ग्रा. WEIGHT (K.G.) 5.44	असे.ड्राईंग का संदर्भ REF. TO ASSY. DRG. 0 251 06 84602	मद क. ITEM NO. 021	मद संख्या NO. OF ITEM 002
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शीर्षक/TITLE
COVER ASSY.

ड्राईंग क्र./DRAWING NO.
3 251 06 84606

पृष्ठ क्र./SHT. No. 01 पृष्ठों की संख्या/NO. OF SHT.01

S00 10-10-662-E 'ON '980



तकनीकी आवश्यकताएँ

- स्कू IS-4218-1967 कोर्स पिच
टॉलरेंस क्वालिटी - मिडियम
टॉलरेंस क्लास - 6g
- बी.पी.0690084 के अनुसार टी.आर.पी. लगावें
- बी.एच.ई.एल. से बाहर निर्माण हेतु सामग्री निम्न मानकों के अनुरूप हो:-
 - सामान्य आवश्यकताएँ - IS-3138-1966
 - न्यूनतम वायु पी-320 न्यूटन/मि.मि.²
 - न्यूनतम टेन्साइल स्ट्रेंथ 620 न्यूटन/मि.मि.²
 - हार्डनेस-175 से 207 (BHN)
 - प्रसार (एलॉय ग्रेड) 5.65√S0 गेज लम्बाई पर 15% न्यूनतम
 - सामग्री कार्टींग की न हो बात करने के लिये मे को परिष्कार करें
उपवा
IS-1599 के अनुसार 90° बेण्ड टेस्ट करें.
- परीक्षण बार वास्तविक नाप की अपेक्षा 20 की हो जिसके किनारे 1.6 मि.मि. रेडियस में गोला हो
- बेण्ड करने का रेडियस परीक्षण बार के डायमीटर के बराबर हो
- परीक्षण बार परीक्षण के दौरान टूटना नहीं चाहिए तथा सुली जखों द्वारा उसमें कोई दरार नहीं दिखाई दे दें किनारे पर छोटी दरारें स्वीकृत हैं
- घेड को सुरक्षित रखने हेतु घेड के ऊपर 2 से 3 मि.मि. 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.

001

बी.एच.ई.एल. में निर्माण हेतु:-

सामग्री:- 075 कार्बन स्टील बार एच-10208 के अनुसार

सामग्री कोड :- एच 1020208236

यह ड्राइंग क्र. 4-299-88-01501 को प्रतिस्थापित करती है.

शीपी9013004067			001	फिटिंग बोल्ट 42x160																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</
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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/परियोजना का नाम

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

हाइड्रोजनरे टर

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
वे. मंडवडे	हस्ता.	12.5.93	
एम.के.सचदेव	हस्ता.	19.5.93	
ए.एस.गुर्जर	हस्ता.	19.5.93	एन. ए.

DEPT HGE	उत्पाद का प्रकार या ग्राहक/परियोजना का नाम	उत्पाद	भार (कि.ग्रा.)	उत्पाद का संदर्भ	मह. क्र.	मह. संख्या
कोड 403	3-250-00-01 404	एन.टी.एस	2.7	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEM

शीर्षक/ TITLE	ड्राइंग का संदर्भ	पृष्ठ क्र./SHT. No.	पृष्ठों की संख्या/NO. OF SHT.
फिटिंग बोल्ट एम-42 FITTING BOLT M-42	ड्राइंग क्र./DRAWING NO. 3-299-01-01 005	01	01

INVENTORY NO. REV. DATE SIGN. & DATE REF. DRG. NO.

REV.	DATE	ALTERED	REV.	DATE	ALTERED
03	22.9.05	ALT CRD APPD	02	22.2.01	CHCKED
					APPROVED

DIM 70 WAS 60 AND
DIM 84 WAS 74.

त.अ. 3.2 से 3.5 के
योजना अनुसार त.अ. 3.6 से
3.6.3 तक गई त.अ. -5
पेज 1

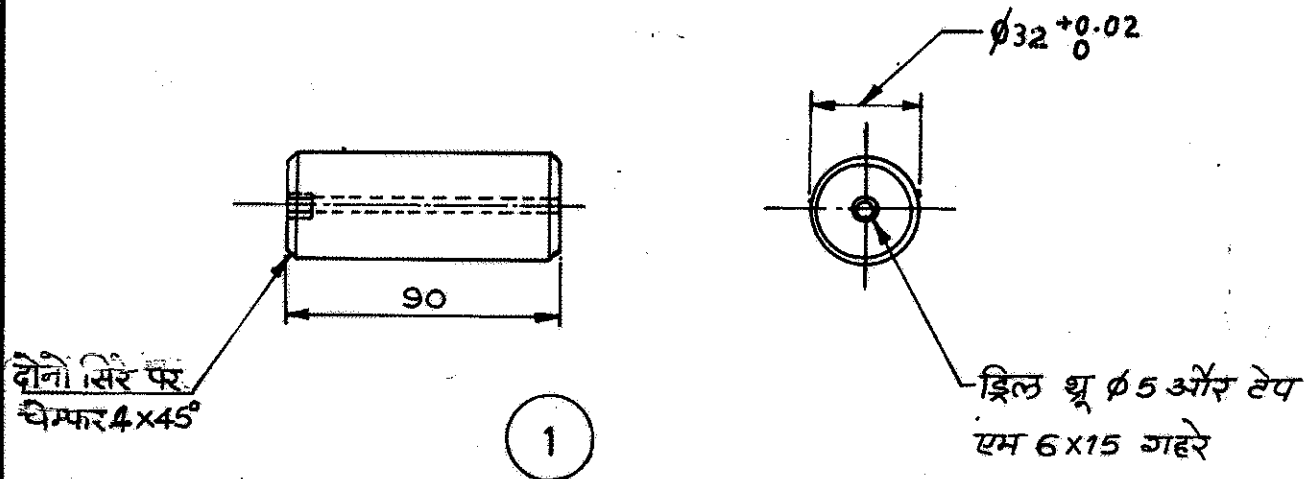
त.अ. 3.5 से 5.65√S0 गेज लम्बाई
पहले नहीं थी
ड्राइंग को संशोधन पर बनाया गया

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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



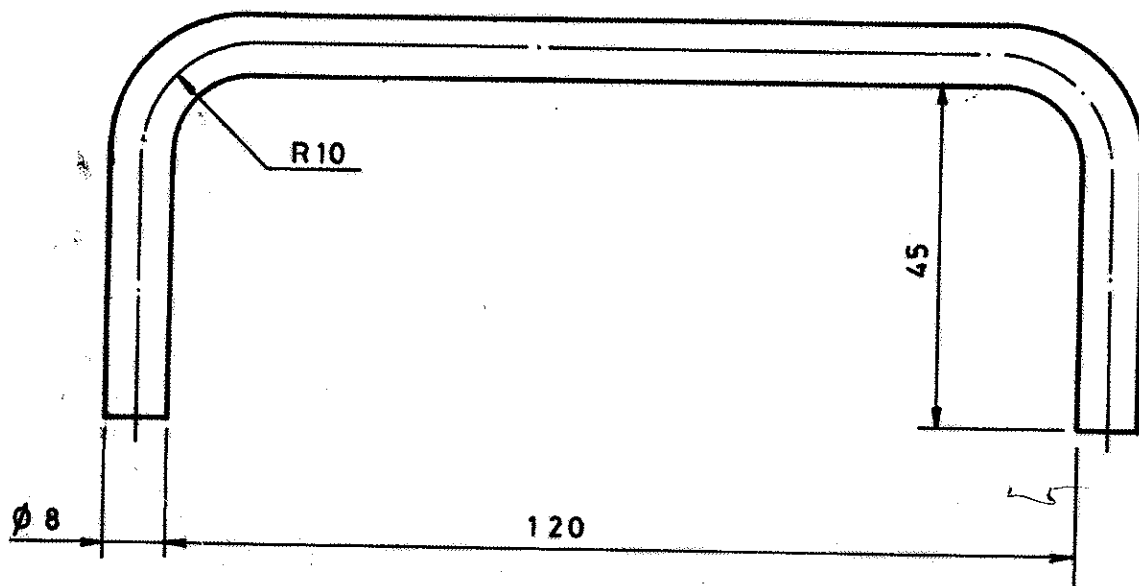
तकनीकी आवश्यकताएँ :-
1. बी.पी. 0690084 के अनुसार टी. आर. पी. लगावे.



REF. DRG. NO.	001	डॉवल $\phi 36 \times 90$ एस. एस. एस. क्यू. व्वायर	एच. 1010208152	0.570
DEPT. एच.जी.ई.	GRADE OF UN.TOL. DIM.	SCALE 1:25	WEIGHT (Kg) 0.57	REF. TO ASSY. DRG. NA
CODE 403				
TITLE	डॉवल $\phi 32$		CARD CODE	DRAWING NO. 4-299-88-01-001
SIGN. & DATE		SHEET NO. 1 NO. OF SHEETS 1		

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	ADDITIONAL INFORMATION
		CHECKED	02	6/11/97	CHECKED	
		APPROVED			APPROVED	
			ड्राइंग हिन्दी में परिवर्तित की गई। सामग्री मानक एस 10108 के अनुसार की			STATUS OF DRAWING मानक DISTRIBUTION स्पेड - 1, पी.एस.एस - 4. OF PRINTS टी.ई.एस (ई.एस) - 1, एन.बी.एस - 7
						मानक ड्राइंग
						पुनरीक्षण मानक समुह द्वारा अनुमोदित है।



1

डिजाइनर

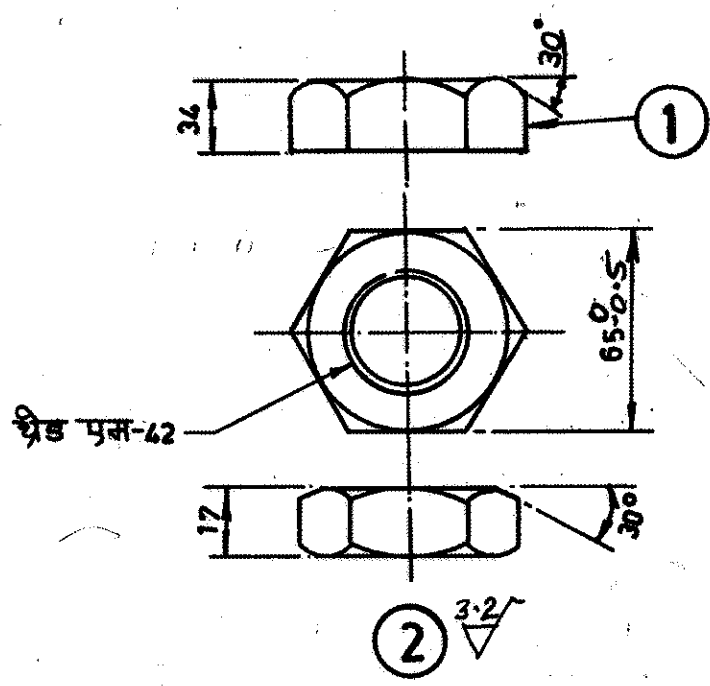
001	हथ्था Ø 8 X 228 लम्बा ब्राइट स्टील बार	एस 1010212036 एस 10112	2	2	0.08
REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	UNIT WT.
				MATL. SPECN.	QTY.

		भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल BHARAT HEAVY ELECTRICALS LTD. BHOPAL		नाम/NAME रम. सचदेव रम. के. श्रीवास्तव आर. के. पांडे	हस्ता./SIGN हस्ता. हस्ता. हस्ता.	दि./DATE 27-10-80 30-11-80 03-12-80	क्रि. की संख्या NO. OF VAR. NA
डिप्ट. कोड 403 CODE	अन. टोल. नाप की केपी UNTOL. DIMS. GR. 4250-00-01404	अनुपात SCALE 1:1	भार (कि.ग्र.) WEIGHT (K.G.) 0.08	जसे. ड्राइंग का संदर्भ REF. TO ASSY. DRG. लागू नहीं		मद क्र. ITEM NO. NA	मद संख्या NO. OF ITEM 001
शीर्षक/TITLE हथ्था (हैन्डल)				ड्राइंग क्र./DRAWING NO. 4 299 88 01009		पृष्ठ क्र./REV. 02	
पृष्ठ क्र./SHT. No. 1				पृष्ठों की सं./NO. OF SHT. 1			

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REV.	DATE	ALTERED	REV.	DATE	ALTERED
07	10-8-74	CHECKED <i>[Signature]</i>	06	21-5-92	CHECKED <i>[Signature]</i>
न.आ. 1 में 1.4, 1.5, 1.6 को जोड़ा गया। न.आ. 2 में बदलाव किया गया है। बीपी 9013003222 एवं 3966 पर रिज. नं. 300322 एवं 3966			मद क-1 को जोड़ा गया एवं एस टी-300322 भी जोड़ा गया। न.आ. क-1 जोड़ा गया।		

ADDITIONAL INFORMATION		
रन ए		
STATUS OF DRAWING मानक		
DISTRIBUTION एम. जी. ई.-1. पी. एल. एम. 4 OF PRINTS टी. सी. एक्स. पी. एल. एम.-1		
मानक डाइंग		
संशोधन मानक सखर दाय अनुमोदित है।		
आतिथीय टालरेसेस के लिये डाइंग नं. 3-250-00-01404 देखें।		
REV.	DATE	ALT.
08	15-04-97	CKD- <i>[Signature]</i>
न.आ. 1.6 पर न. न्यूनतम प्रसार (एलेंगेशन) 18% मी. भा.		
REV.	DATE	ALT.
09	15-06-04	CKD. <i>[Signature]</i>
न.आ. 1.2 टालरेस क्लास 7H था.		



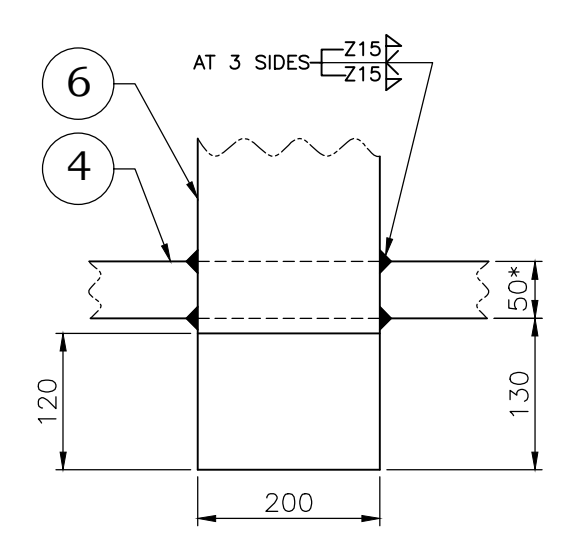
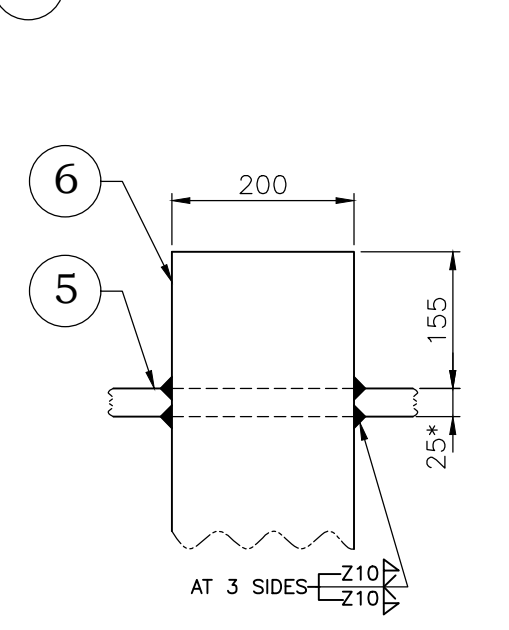
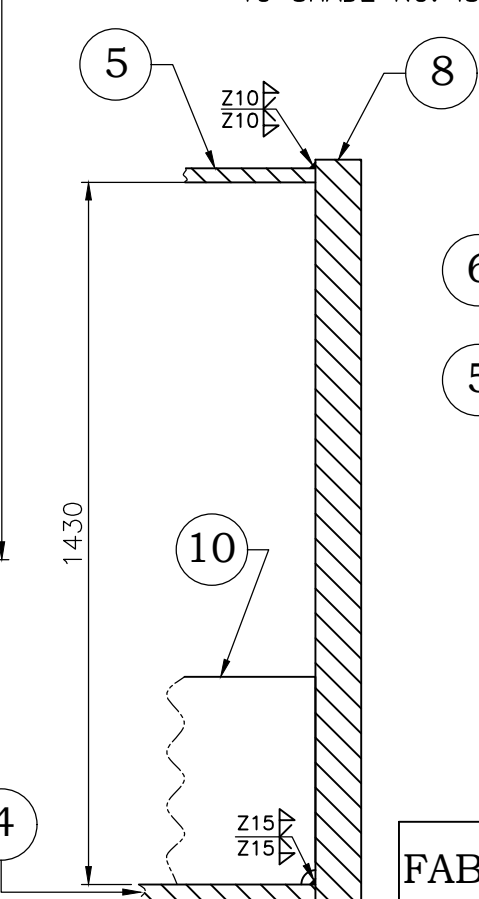
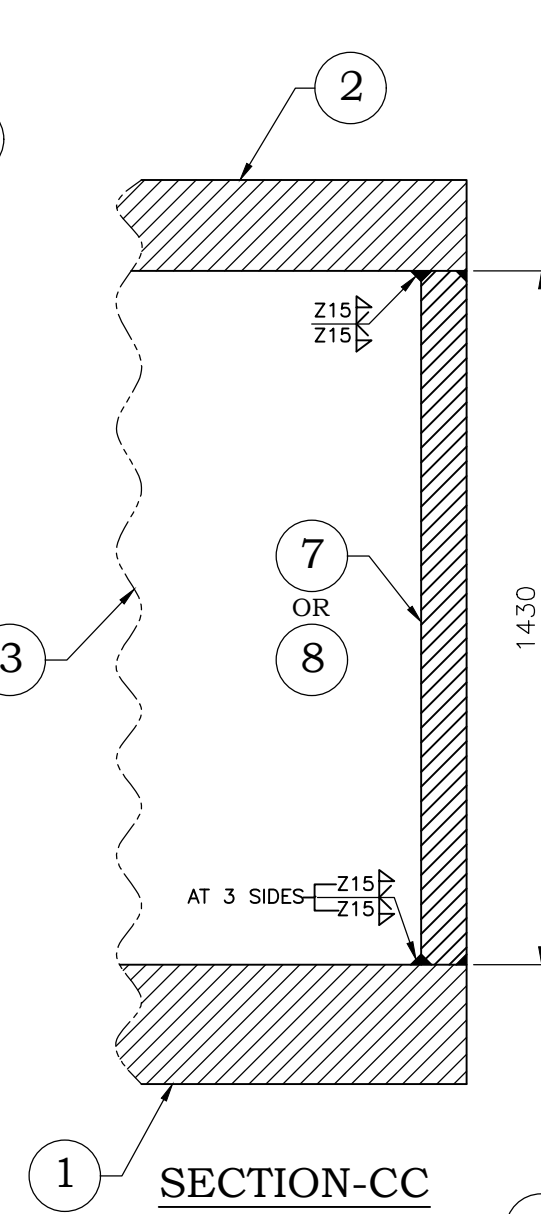
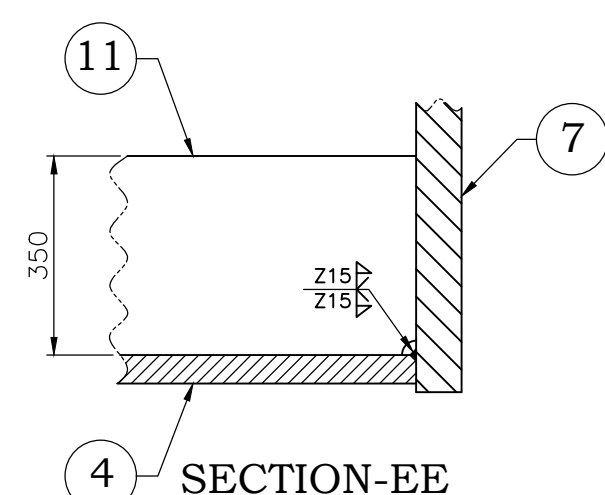
तकनीकी आवश्यकताएँ :-

- नट निम्न मानकीं अनुरूप हो:-
 - सामान्य आवश्यकताएँ 15-3138-1966
 - शेड 15 4218-1976 कीर्स पिच्च.
टालरेस क्वालिटी - मीडियम.
टालरेस क्लास - 6H.
 - न्यूनतम वायु पी = 320 न्यूटन/मी.मी.²
 - न्यूनतम टेंसिल स्ट्रेन्थ 580-680 N/mm²
 - हार्डनेस 170 TO 207 एच.वी.
 - प्रसार (एलेंगेशन) 5-65 V.S.O गेज क्लॉस पर 18% न्यूनतम.
- बीपी 0690084 के अनुसार जंग प्रतिरोधक लागाने.
- बी. एच. ई. एल. में उपयोग हेतु सामग्री - कार्बन स्टील बोर. AA10208

REF. DRG. NO.	बीपी 9013003966	002	लॉक नट-42	3	एच.ए.	0.44																	
	बीपी 9013003222	001	नट पस-42	3	एच.ए.	0.88																	
SIGN. & DATE	28 → CARD TYPE-3		28 → CARD TYPE-1		28 → CARD TYPE-2																		
	BHARAT HEAVY ELECTRICALS LTD. BHOPAL <table border="1"> <tr> <td>DRN.</td> <td>आर. पस. सखर</td> <td>SIGN.</td> <td><i>[Signature]</i></td> <td>DATE</td> <td>13-11-79</td> </tr> <tr> <td>CHD.</td> <td>मद क-1</td> <td>SIGN.</td> <td>--</td> <td>DATE</td> <td>22-11-79</td> </tr> <tr> <td>APPD.</td> <td>आर. के. पी.</td> <td>SIGN.</td> <td>--</td> <td>DATE</td> <td>22-11-79</td> </tr> </table>						DRN.	आर. पस. सखर	SIGN.	<i>[Signature]</i>	DATE	13-11-79	CHD.	मद क-1	SIGN.	--	DATE	22-11-79	APPD.	आर. के. पी.	SIGN.	--	DATE
DRN.	आर. पस. सखर	SIGN.	<i>[Signature]</i>	DATE	13-11-79																		
CHD.	मद क-1	SIGN.	--	DATE	22-11-79																		
APPD.	आर. के. पी.	SIGN.	--	DATE	22-11-79																		
INVENTORY NO.	DEPT. CODE	GRADE OF UN.TOL. DIM. GRABE	SCALE	WEIGHT (Kg)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS																
	403		1:2.5	मद क-1-0.88 मद क-2-0.44	पस. प	-	02																
TITLE				CARD CODE	DRAWING NO.																		
नट (एम-42) लॉक नट (पस-42)					4-299-88-01 502																		
					SHEET NO. 1 NO. OF SHEETS 1																		



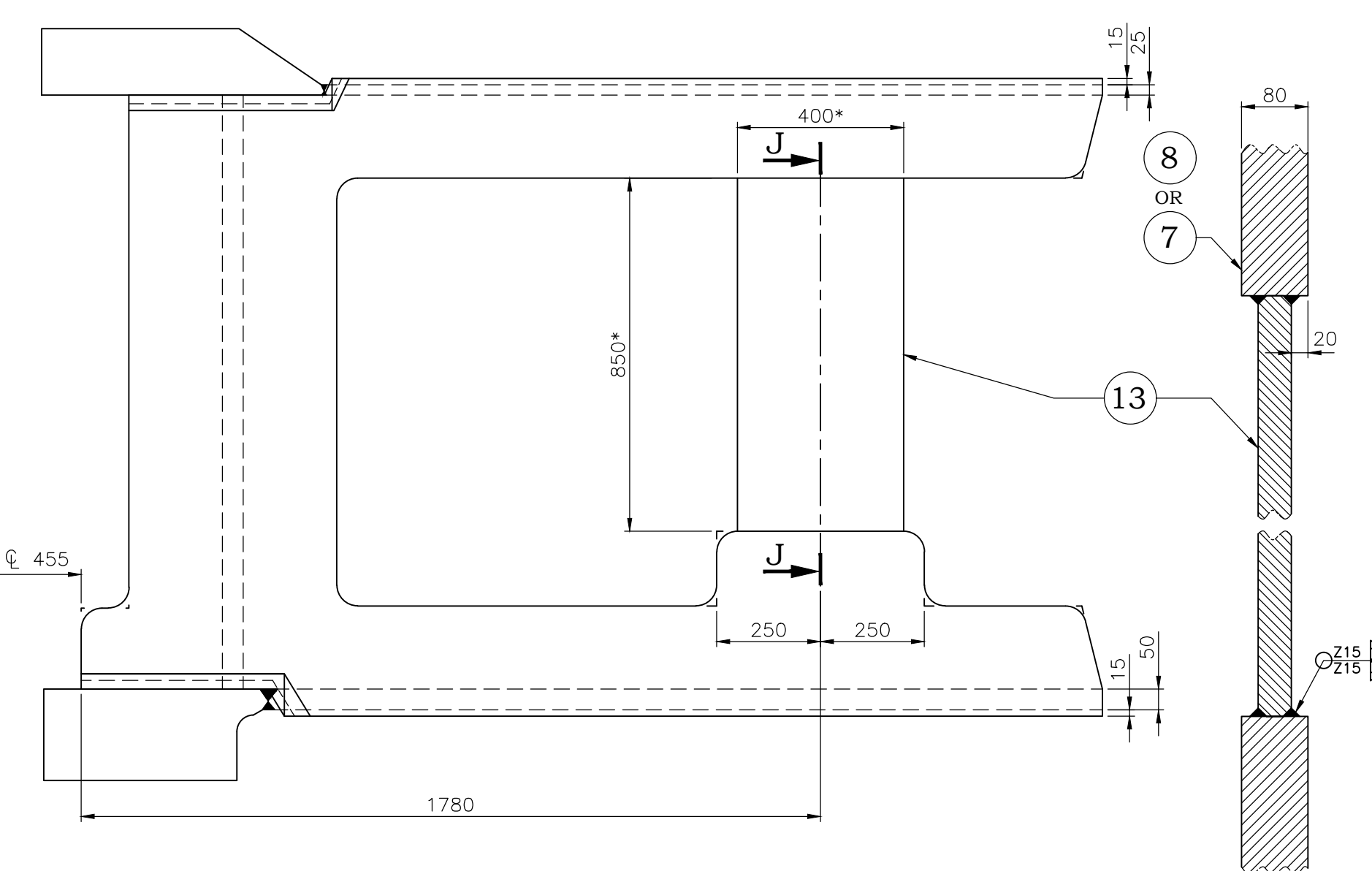
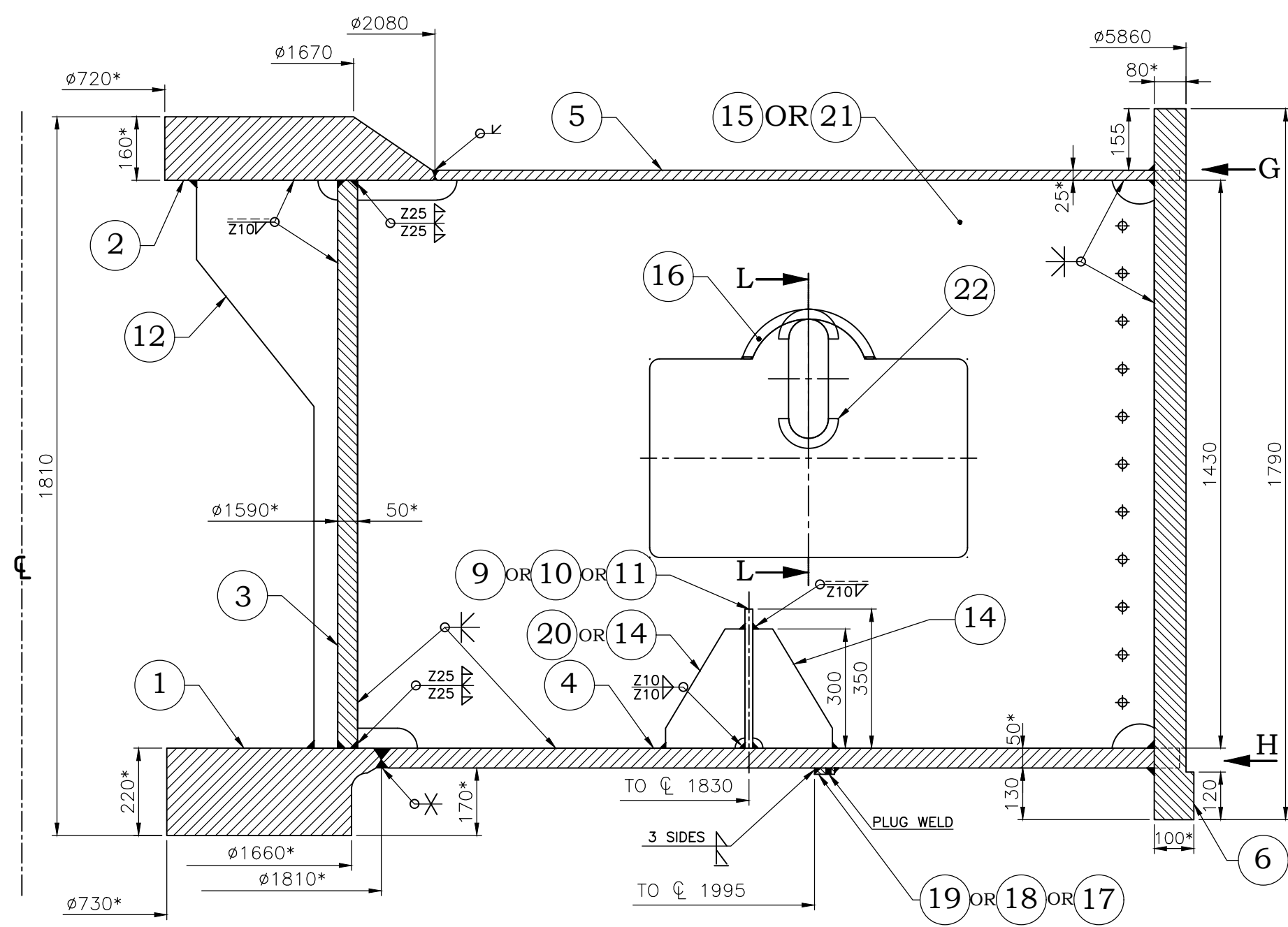
DRG. NO. I 252 02 14701



TECHNICAL REQUIREMENTS:-

1. ALL WELDS ARE CONTINUOUS & 10 MM. FILLET UNLESS OTHERWISE STATED.
2. ALL FULL & PARTIAL PENETRATION BUTT WELDS SHALL BE GRADE II AND ALL FILLET WELDS SHALL BE GR III TO A060674101.
3. COMPLETE LENGTH OF ALL WELDS TO BE DP/MT TESTED TO BP0850199/BP0850198 AFTER STRESS RELIEVING.
4. STRESS RELIEVE ASSEMBLY TO BP0640299.
5. DIMENSIONS MARKED THUS * ARE FOR D.O. REF. ONLY.
6. ALL GRADE II WELDS TO BE ULTRASONICALLY TESTED TO BP0850176.
7. SURFACE ARE TO BE PREPARED PRIOR TO PAINTING TO A06674101. AFTER PREPARATION APPLY 2-COAT ANTI-CORROSIVE PRIMING PAINT TO A056126 AND 2-COAT OF HIGH QUALITY FULL GRADE POLYURETHANE FINISHING PAINT TO A456126 COLOR LIGHT GREY TO SHAFD NO. JSC:631 OF IS:5.

<u>VIEW AS ARROW-G</u>	<u>VIEW AS ARROW-H</u>
FABRICATED WEIGHT INCLUDING WELDING-18230.00KG.	



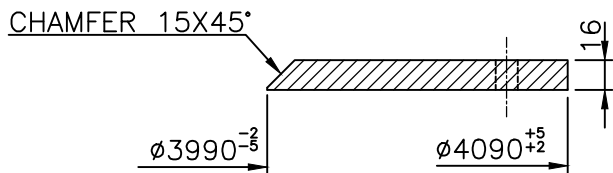
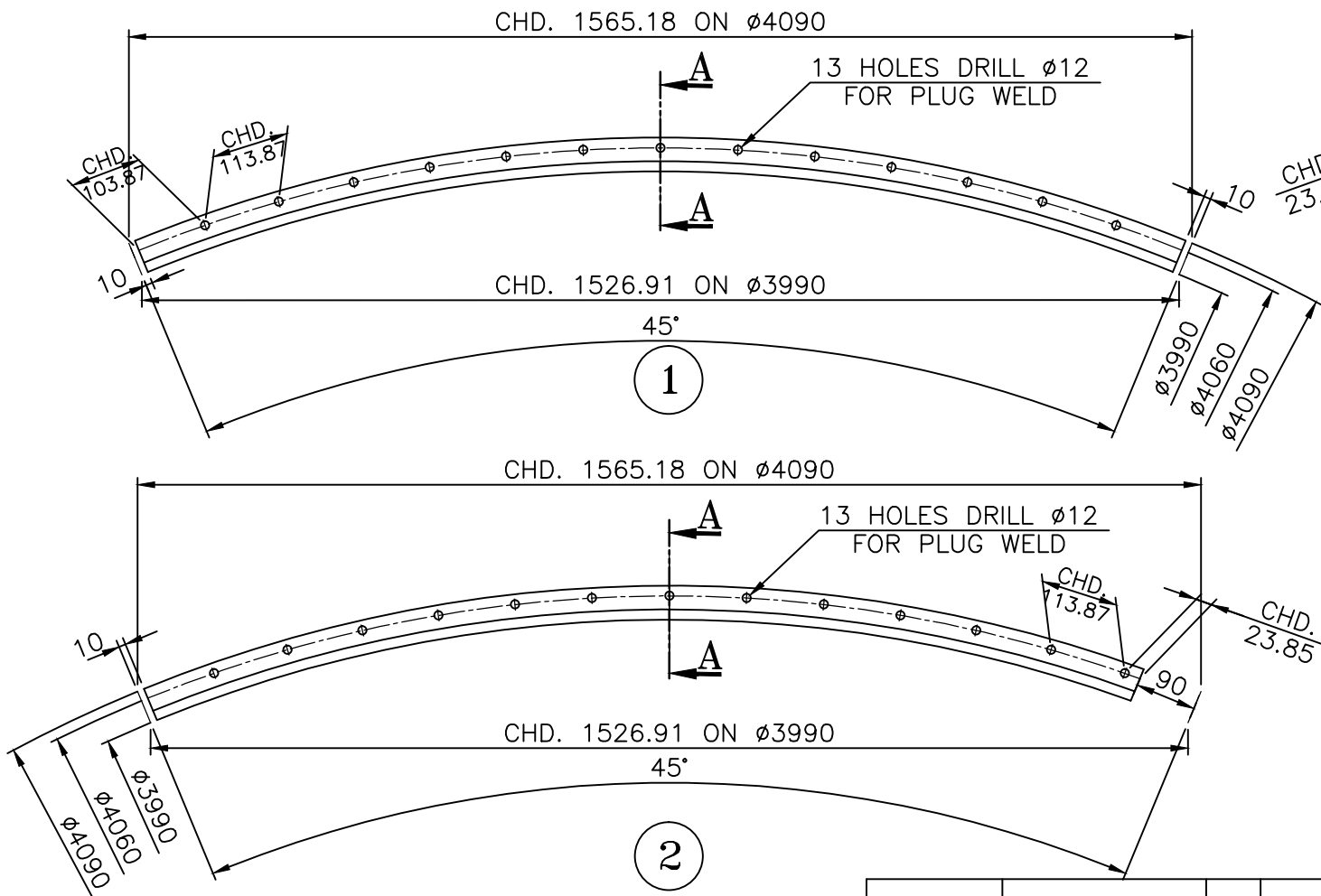
SECTION-DD												
QTY VAROO	REMARKS		VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	IT.NO.	MATL. CODE	UNIT VAR.	UNIT WT.	QTY.	ZONE
012			022	LIFTING BAR	0 252 02 88601	019		NA	NO	0.77		
002			021	RIB	0 252 02 88601	018		NA	NO	476.52		
002			020	RIB	0 252 02 88601	017		NA	NO	3.64		
001			019	BRAKE TRACK SUPPORT RING	3 252 02 88601	003		NA	NO	9.15		
001			018	BRAKE TRACK SUPPORT RING	3 252 02 88601	002		NA	NO	9.15		
002			017	BRAKE TRACK SUPPORT RING	3 252 02 88601	001		NA	NO	9.65		
004			016	LIFTING BAR	0 252 02 88601	016		NA	NO	1.58		
003			015	RIB	0 252 02 88601	015		NA	NO	553.50		
018			014	RIB	0 252 02 88601	014		NA	NO	5.18		
002			013	JOINT PLATE	0 252 02 88601	013		NA	NO	106.76		
003			012	STIFFENER	0 252 02 88601	012		NA	NO	30.92		
001			011	SUPPORTING RING PLATE	0 252 02 88601	011		NA	NO	26.87		
001			010	SUPPORTING RING PLATE	0 252 02 88601	010		NA	NO	26.87		
004			009	SUPPORTING RING PLATE	0 252 02 88601	009		NA	NO	61.64		
001			008	JOINT FLANGE	0 252 02 88601	008		NA	NO	1104.00		
001			007	JOINT FLANGE	0 252 02 88601	007		NA	NO	1104.00		
005			006	KEY BAR	0 252 02 88601	006		NA	NO	228.59		
001			005	UPPER PLATE	0 252 02 88601	005		NA	NO	1952.00		
001			004	LOWER PLATE	0 252 02 88601	004		NA	NO	4592.00		
001			003	HALF CYLINDER	0 252 02 88601	003		NA	NO	1366.00		
001			002	UPPER DISC	0 252 02 88601	002		NA	NO	1546.00		
001			001	LOWER DISC	0 252 02 88601	001		NA	NO	1604.00		

28 → CARD TYPE-3	28 → CARD TYPE-1	28 → CARD TYPE-2
ADDITIONAL INFORMATION W.O :30329 TO 36 A 231 52 STATUS OF DRAWING '1'	उत्पाद का प्रकार या गा.हक/परियोजना का नाम TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	HMS-790/150-30K PALAMURU RANGAREDDY LIS STAGE-1,PACKAGE-1 (IRRIGATION & CAD DEPT, GOVT. OF TELANGANA)

DISTRIBUTION OF PRINTS HGE - 2 TEX - 1 HGM - 2 FWM - 2		भारत हेवी इलेक्ट्रिकल्स लिमिटेड भापोल BHARAT HEAVY ELECTRICALS LTD. BHOPAL	ब्रह्मा DRN.	नाम / NAME इस्तार्क / SIGNATURE / DATE	ड्रॉइंग NO. OF VAR.	
			जीजा CKU.	ड्रॉइंग NO. OF VAR.	ड्रॉइंग NO. OF VAR.	
	निमाग DEPT-HGE कोड CODE 403	अनुमत्त SCALE 1:12.5	भार (कि.ग्र.) WEIGHT (K.G.) 1823000	कन्वेन्शनेल ड-हार्ड का संचेद REF. TO ASSY. DRG. 0 252 02 14701	मरक ITEM NO. 1 252 02 14701	मरक NO. OF ITEM 022
	शिफारिश TITLE			ड-हार्ड का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
		SPIDER HALF SEGMENT ASSEMBLY		ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	ड्रॉइंग NO. OF DRAWING 022
				ड्रॉइंग का ड्रॉइंग NO. 1 252 02 14701	ड्रॉइंग NO. OF DRAWING 022	

10988 20 252 8 DRC.NO.

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.



SECTION-AA

			003	BRAKE TRACK SUPPORT RING 16TK. S.S.S.Q. PLATE				AA1011808110	NA	NA	9.15								
								AA10108											
			002	BRAKE TRACK SUPPORT RING 16TK. S.S.S.Q. PLATE				AA1011808110	NA	NA	9.15								
								AA10108											
			001	BRAKE TRACK SUPPORT RING 16TK. S.S.S.Q. PLATE				AA1011808110	NA	NA	9.65								
								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.			IT.NO.	MATL. CODE		A	UNIT	UNIT WT.		SC
												VAR.	MATL. SPCN.		C		QTY.		

28 CARD TYPE-3

28 CARD TYPE-1

28 CARD TYPE-2

ADDITIONAL INFORMATION
W.O.-33208 TO 13 A 231 52

STATUS OF DRAWING
U

DISTRIBUTION OF PRINTS
HGE - 2 HGM - 2
TEX - 2 FWM - 2

उत्पाद का प्रकार या ग्राहक /परियोजना का नाम
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT
HMS-790/150-30K
PRANAHITHA-CHEVELLA LIS PACKAGE 6
(NECL/TSGENCO)

	भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल		नाम NAME	हस्ता. SIGN	दि. DATE	NO.OF VAR
	BHARAT HEAVY ELECTRICALS LTD. BHOPAL		BPN		22.01.16	
			AKV/BKS		22.01.16	
			RG/AD		22.01.16	

विभाग DEPT HGE	UNTOL DIMS	SCALE अनुपात	भारत का.ग. WEIGHT(kg)	उत्प. ड्राईंग का संदर्भ REF TO ASSY DRG	मद. क. ITEM NO.	मद. संख्या NO.OF ITEM
कोड CODE 403	32500001404	1:10	NA	1 252 02 88602	017 TO 019	003

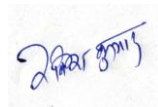
TITLE शीर्षक
BRAKE TRACK SUPPORT RING
DRAWING NO.
3 252 02 88601
पृष्ठ क. SHT NO. 1 पृष्ठों की सं. NO.OF SHT. 1

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

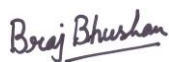
इंडेंट संख्या / Indent no. 20210054 Rev. 00

गुणता आवश्यकताएं / Quality Requirements

1. सभी सामग्री भेल हरिद्वार द्वारा उपलब्ध कराई जानी है।
All material to be provided by BHEL Haridwar.
2. क्रय आदेश केवल हीप, बी.एच.ई.एल. हरिद्वार द्वारा अनुमोदित / स्वीकृत विक्रेताओं/उप-ठेकेदारों पर ही लगाया जाएगा।
Ordering shall be done on HEEP, BHEL Haridwar approved / agreed vendors only.
3. गुणवत्ता योजना संख्या **QP/QA/216031** सं. 00 दिनांक: **28.07.2021** संलग्न है, जिसका अनुपालन किया जाना है।
Quality plan no. **QP/QA/216031** rev. 00 dated: **28.07.2021** is attached, which is to be followed.
4. ड्राइंग और गुणवत्ता योजना की आवश्यकताओं के अनुसार हीप, बी.एच.ई.एल. / हीप, बी.एच.ई.एल. द्वारा नामांकित निरीक्षण संस्था द्वारा भौतिक निरीक्षण / दूरस्थ निरीक्षण किया जाएगा। भौतिक निरीक्षण के स्थान पर दूरस्थ निरीक्षण को प्राथमिकता दी जाएगी (कोविड 19 स्थिति के कारण)। यद्यपि, उप-ठेकेदारों को दूरस्थ निरीक्षण और भौतिक निरीक्षण दोनों का प्रस्ताव देना है। बी.एच.ई.एल. उपयुक्त विकल्प के चयन का अधिकार रखता है। दूरस्थ निरीक्षण दिशानिर्देश संलग्न हैं।
Physical Inspection / Remote inspection by BHEL / BHEL nominated inspection agency as per drawing and quality plan requirements. Remote inspection shall be preferred in place of physical inspection (Due to COVID 19 situation). However, sub-contractors to offer both remote inspection and physical inspection. BHEL reserves the right to select the suitable option. Remote inspection guidelines are attached.



रवीश कुमार चंदेल
वरिष्ठ अभियंता
गुणता आश्वासन



ब्रज भुषण त्रिपाठी
प्रबंधक
गुणता आश्वासन



प्रदीप कुमार बंसल
अपर महाप्रबंधक
गुणता आश्वासन

Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO	
BHEL Haridwar approved vendors only		ITEM/ EQUIPM- ENTS	STATOR FRAME (FAB.& M/C), SPIDER HALF SEGMENT ASSEMBLY					Q.P. NO	QP/QA/216031				
								DATE	28.07.2021				
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	1 of 3		Indent	20210054 rev 00 dated 27.07.2021	
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 inspection receipt at vendor works	Verification of identification of material	Major	Visual inspection	100 %	As per drg./ Standard	As per drg./ Standard	Record	✓	P	V	-	Material will be supplied by BHEL. Transfer of Identification of BHEL material to be ensured.
2	IN PROCESS-INSPECTION												
2.1	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
2.2	Marking, Cutting & Edge Preparation	i) Marking	Major	Marking check	100 %	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
		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	-	-	

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	 ब्रज भुषण त्रिपाठी प्रबंधक गुणता आश्वासन	 प्रदीप कुमार बंसल अपर महाप्रबंधक गुणता आश्वासन
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO	
BHEL Haridwar approved vendors only		ITEM/ EQUIPM- ENTS	STATOR FRAME (FAB.& M/C), SPIDER HALF SEGMENT ASSEMBLY					Q.P. NO	QP/QA/216031				
								DATE	28.07.2021				
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	2 of 3		Indent	20210054 rev 00 dated 27.07.2021	
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

2.3	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) Stress relieving of Spider half segment Assy.	Major	HT	100%	As per drg./ Standard	As per drg./ Standard	SR chart	-	-	P	V	SR in BHEL Scope.
		iv) NDT of welds as per drawing	Major	NDT	As per drg.	As per drg./ Standard	As per drg./ Standard	Report	✓	P	W	V	
3	FINAL INSPECTION												
3.1		i) Verification of dimension & 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	
		iii) Painting & preservation	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	✓	P	W	-	

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	 ब्रज भुषण त्रिपाठी प्रबंधक गुणता आश्वासन	 प्रदीप कुमार बंसल अपर महाप्रबंधक गुणता आश्वासन
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO		
BHEL Haridwar approved vendors only		ITEM/ EQUIPM- ENTS	STATOR FRAME (FAB.& M/C), SPIDER HALF SEGMENT ASSEMBLY					Q.P. NO	QP/QA/216031					
								DATE	28.07.2021					
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR		
								PAGE NO.	3 of 3		Indent	20210054 rev 00 dated 27.07.2021		
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	

		iv) 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.
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Note: All requirements of P.O., drawing and standard 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		
		 रवीश कुमार चंदेल वरिष्ठ अभियंता गुणता आश्वासन	 ब्रज भुषण त्रिपाठी प्रबंधक गुणता आश्वासन	 प्रदीप कुमार बंसल अपर महाप्रबंधक गुणता आश्वासन



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

ब्रज भुषण त्रिपाठी
प्रबंधक
गुणता आश्वासन

Self-certification

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

.....

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

.....

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

.....

.....

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

Seal & Signature of Supplier



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

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1. GENERAL.

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

2. ORIGIN OF QUOTATION.

- 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.



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

4. TENDER OPENING.

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

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

5. SPECIFICATION, DRAWINGS & STANDARD.

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

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



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

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

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

6. PRICE SCHEDULE.

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

g) Bidders can dispatch goods through any Indian Bank Association approved transporters having their branch at HARIDWAR / destination. If material is dispatched through other than Indian Bank Association approved transporter, material to be delivered on door delivery BHEL Stores basis.

h) In case of dispatch of material through any other unapproved transporter, payment shall be made only after receipt of material and any additional charges payable to the transporter shall be to the bidder's account.

i) Any demurrage / godown rent payable to the transporter / or to godown's owner due to any delay attributed by the supplier shall be recovered from supplier's account.

j) Currency of Evaluation shall be INR.

NB: Financial evaluation of L1, 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%.



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

9. PENALTY FOR LATE DELIVERY.

a) Where items of Purchase Order are independently usable.

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

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

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

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

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

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

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

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

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

10. PAYMENT TERMS.

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

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

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

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

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

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

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

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

**BHARAT HEAVY ELECTRICALS LIMITED**

HEEP-HARIDWAR, UTTARAKHAND (249403)

General Instructions and Standard Terms & Conditions for bidding against Tender Enquiry (GISTC)**For Indian Bidders (Version December-2020, Rev: 05)****i) The loading criteria for the different payment terms shall be as under:**

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	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 evaluation. However, bidder will have to pass on the benefit of IGST to BHEL at the time supply.

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



BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

- 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.
- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be



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

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

17. TRANSIT INSURANCE.

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

18. RISK PURCHASE.

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

Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.

19. FORCE MAJEURE CLAUSE.

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

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

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



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

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

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

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

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

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

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

21. SETTLEMENT OF DISPUTES / ARBITRATION.

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

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

22. WHARFAGE / DEMURRAGE RESPONSIBILITY.

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

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

- 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 (Format enclosed at annexure-1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two-part bid) or vendor has to give Udyog Adhar Memorandum (UAM). Non submission of such documents will lead to consideration of their bid at par with



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

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

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

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

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

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

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

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

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

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

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

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



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In view of this, it is clarified that benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists / Dealers / Traders etc. for the items offered but not manufactured by themselves.”

24. INFORMATION TO THE BIDDERS.

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

25. MAKE IN INDIA (GOVT-NOTIFICATION).

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



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

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

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

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

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



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

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

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

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

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

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

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that bidder (... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

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

27. NOTE.

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



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

3. Compensation in respect of each of the victims:

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

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