

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

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 Bottom Bracket Centre Assembly, Top Bracket Centre Assembly, Top Bracket Arm Assembly and Bottom Bracket Arm Assembly with BHEL Material as per drg., QP & other specifications exclusively with BHEL Material.

Sl. No.	Item Description	Drg. No.	Qty.
1	BOTTOM BRACKET CENTRE ASSEMBLY	12570114701-00	02 No.
2.	TOP BRACKET CENTRE ASSEMBLY	12560114701-00	02 No.
3.	BOTTOM BRACKET ARM ASSLY	22570114701-00	16 No.
4.	TOP BRACKET ARM ASSEMBLY	22560114701-00	16 No.

Remarks :-

- 1.1) **FOR TOP BRACKET CENTRE ASSY** , 12560114701-00 ITEM NO 17,18,19,20,21 ARE NOT IN SCOPE . REST ARE BHEL MATERIAL.
- 1.2) **FOR TOP BRACKET ARM ASSY** , 22560114701-00 ITEM NO 6,7,8,9 ARE NOT IN SCOPE . REST ARE BHEL MATERIAL.
- 1.3) INTERMEDIATE SR (IF ANY) AND FINAL SR/SB (IF ANY) WILL BE IN THE SCOPE OF BHEL.
- 1.4) **IN BOTTOM BRACKET CENTRE ASSY DRG.02570114701-00** , ITEMS 5,21,22,23 & 24 WILL BE SUPPLIED LOOSE BY THE VENDOR. ASSEMBLY AND WELDING OF THESE ITEMS WILL BE DONE BY BHEL AFTER STRESS RELIEVING.
- 1.5) :-
 - 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) DRAWINGS TECHNICAL REQUIREMENTS SHOULD BE FOLLOWED WHILE MANUFACTURING THE ITEMS

➤ **Total load for the open tender enquiry (Approximately) = 148.444 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 envelops (Part-I & Part-II) should be placed together in a single envelop duly sealed super scribing on the envelop "TWO PART BID" with enquiry reference number and date of opening of tender. BHEL will not be responsible for any type of delay in receipt of the tender.
 - 3.5 BHEL reserves the right to reject any or all the tenders either in full or part thereof without assigning any reasons thereof.

4. DELIVERY: -

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

5. DELIVERY SCHEDULE: -

Sl.	Item Description	Drg. No.	Delivery
1	BOTTOM BRACKET CENTRE ASSEMBLY	12570114701-00	Within 60 days from last BHEL material sent
2.	TOP BRACKET CENTRE ASSEMBLY	12560114701-00	Within 60 days from last BHEL material sent
3.	BOTTOM BRACKET ARM ASSLY	22570114701-00	Within 60 days from last BHEL material sent
4.	TOP BRACKET ARM ASSEMBLY	22560114701-00	Within 60 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/216030 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-051 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. AF051.
- 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/6620/2021/0053/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 : Bottom Bracket Central Asy(FAB) (KALESHWARAM drg. 02570114701-00)

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. Bottom Bracket Centre Asy(FAB) or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Dia 4000 mm and height 2500. 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: Dia 4000mm, Height=2500 mm and above to fabricate the job. iv) Vendor must have cutting facility to achieve profile as per drawing for accomadating plate of Dimension ;Length 10000mm,width 4000 mm thickness 90mm with and above. v) Vendor must have rolling/bending facility to bend/roll cylinder of thickness 50 mm or above with width 600mm 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 brochure, photographs etc. of the facilities.
01.02	Vendor to furnish certificate against clause 01.01 from the customer / company or end user duly confirming that fabricated Bottom Bracket Central Asy(FAB) 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 Bottom Bracket Central Asy(FAB) 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 Smastan
SE, WT

Blameen
28/07/21
Blameen
AGM (WT)

PQR

Item : Fabrication of Top Bracket centre assembly (KALESHWARAM drg 12560114701-00)

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. Top Bracket Centre Assembly or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Dia 4000 mm and height 700 and above. ii) Lifting facility and capacity at vendor works should EOT crane 10 Tons and above. Sufficient Hook height to suit job requirements iii) Vendor must have levelled bed size to fabricate and accomodate job of dimensions: Dia 4000 mm, Height 700 mm and above to fabricate the job. iv) Vendor must have cutting facility to achieve profile as per drawing for accomadating plate of Dimension ;Length 7000mm,width 3500 mm thickness 70 mm and above . v)Vendor must have rolling/bending facility to bend/roll cylinder of thickness 70mm or above with width 300mm or above(Rolling dia 1500mm ID) . 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 brochure,photographs etc. of the facilities.
01.02	Vendor to furnish certificate against clause 01.01 from the customer / company or end user duly confirming that fabricated Top Bracket centre assembly 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 Top Bracket centre 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
23/5/21
Abhishek Anandhi
SE, WT

Amey
28/07/21
BL meena
AGM(WT)

PQR

Item : Top Bracket Arm Assy (KALESHWARAM drg: 22560114701-00)

PRE-QUALIFICATION REQUIREMENT

01.00	TECHNICAL REQUIREMENT	Required
01.01	Vendors should have experience of fabricating (Cutting/assembly/welding/pre-fabrication machining) and supplying of atleast 1 nos.Top Bracket Arm Assy or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Length 2900 mm,width 450 and Height 600 mm and above. ii) Lifting facility and capacity at vendor works should EOT crane 3Tons and above. Sufficient Hook height to suit job requirements iii) Vendor must have levelled bed size to fabricate and accomodate job of dimensions: Length 2900 mm,width 450 and Height 600 mm and above to fabricate the job. iv) Vendor must have cutting facility for accomadating plate of Dimension ;Length 2800mm,width 500 mm thickness 63 mm and above. v)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 Top Bracket Arm Assy 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 Top Bracket Arm Assy 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 Smariti
SE, WT

Abhishek
28/07/21
B L Nair
AGM (WT)

PQR

Item : Bottom Bracket Arm Assy (KALESHWARAM drg: 22570114701-00)

PRE-QUALIFICATION REQUIREMENT

01.00	TECHNICAL REQUIREMENT	Required
01.01	Vendors should have experience of fabricating (Cutting/assembly/welding/pre-fabrication machining) and supplying of atleast 1 nos. Bottom Bracket Arm Assy or equivalent components in last 7 years from the date of enquiry as per following details: i) Dimensions of job: Length 1350 mm,width 650 mm and Height= 2000 mm and above. ii) Lifting facility and capacity at vendor works should EOT crane 4 Tons and above.Sufficient Hook height to suit job requirements. iii) Vendor must have levelled bed size to fabricate and accomodate job of dimensions: Length 1350 mm,width 650 mm and Height= 2000 mm and above to fabricate the job. iv) Vendor must have cutting facility for accomadating plate of Dimension ;Length 1510mm,width 1225 mm thickness 90mm and above. v)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 inculding 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 Bottom Bracket Arm Assy 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 Bottom Bracket Arm Assy 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 Jaiswal
SR2, WT

Abhishek
28/07/21
Abhishek Jaiswal
SR2, WT



COMBINED BILL OF MATERIAL

Printed On:17.07.2021

Printed By:

CBOM No: 02570114701 CBOM Var: 00 Revno: 0 Rev Date: 31.05.2021
Description: BOTTOM BRACKT CENTRE ASY.(FAB) Total weight: 30950.0

RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
02570114701	00	1	13.07.2021	-Remark deletion in item no-4 -Blank size update of item no.-7 -Blank size update of item no.-14 ---- UNDER CHANGE ADVICE

CBOM - 02570114701 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgegop	18.05.2021	bklsau	26.05.2021	wtxdee	31.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	31.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	31.05.2021



COMBINED BILL OF MATERIAL

Printed On:17.07.2021

Printed By:

CBOM No: 02570114701 CBOM Var: 00 Revno: 0
 Description: BOTTOM BRACKT CENTRE ASY.(FAB)

Rev Date: 31.05.2021
 Total weight: 30950.0

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	02570114701 00			30950.0						
1(1)	BOTTOM BRACKT CENTRE ASY.(FAB)			Y						
MF			N		0306-0313-0202					
1		AA1011819260	AA10119	6234.74	3850.0X3850.0	1	1	9773.9	0.0	9773.9
1(1)	INTERMEDIATE PLATE		ITEM NO.1 OF 12570188601	Y	PL 80		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
2		AA1011819210	AA10119	2798.43	3970.0X3970.0	1	1	6495.46	0.0	6495.46
1(1)	TOP PLATE		IT. NO. 2 OF 12570188601	Y	PL 50		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
3		AA1011819279	AA10119	888.6	650.0X1935.0	1	8	933.0	0.0	7464.0
8(8)	JOINT PLATE 90TK.x650x1935 LG.			Y	PL 90					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
4		AA1011819198	AA10119	214.35	872.0X1295.0	1	7	372.3	0.0	2606.1
7(7)	SIDE PLATE		IT . NO.10 OF 12570188602	Y	PL 40		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
5		AA1011819201	AA10119	59.02	770.0X580.0	1	8	165.64	0.0	1325.12
8(8)	COOLER SUPPORT PLATE		IT . NO. 7 OF 12570188602	Y	PL 45					
MF DR	ST-FE410 WB-PLATE				0072-0301-0202-0306					KG
6		AA1011819210	AA10119	3061.18	3930.0X3930.0	1	1	6365.2	0.0	6365.2
1(1)	BOTTOM PLATE		IT. NO. 5 OF 12570188601	Y	PL 50		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
7		AA1011819210	AA10119	1097.93	560.0X5295.0	1	1	1222.0	0.0	1222.0
1(1)	CYLINDER 50TK., 4995 DEV LG.		IT . NO. 8 OF 12570188602	Y	PL 50		Bending allowance included			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
8		AA1011819198	AA10119	171.0	560.0X1063.0	1	8	196.26	0.0	1570.08
8(8)	STIFFENER 40TK.x560x1063 LG.		IT . NO. 2 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
9		AA1011819198	AA10119	8.96	120.0X238.0	1	16	94.2	0.0	1507.2
16(16)	STIFFENER 40TK.x120x238 LG.		IT . NO. 6 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgegap	18.05.2021	bklsau	26.05.2021	wtxdee	31.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	31.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	31.05.2021



COMBINED BILL OF MATERIAL

Printed On:17.07.2021

Printed By:

CBOM No: 02570114701 CBOM Var: 00 Revno: 0
Description: BOTTOM BRACKT CENTRE ASY.(FAB)

Rev Date: 31.05.2021
Total weight: 30950.0

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
10		AA1011819198	AA10119	21.22	284.0X238.0	1	8	22.28	0.0	178.24
8(8)	PLATE 40TK.x284x238 LG.			Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
11		AA1011819210	AA10119	41.2	324.0X324.0	1	8	43.26	0.0	346.08
8(8)	PLATE 50TK.x324x324 LG.			Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
12		AA1011819198	AA10119	189.67	795.0X1295.0	1	8	339.43	0.0	2715.44
8(8)	RIB 40TK.x795x1295 LG.		IT . NO. 1 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
13	22570188601 00	AA1011819260	AA10119	882.0	230.0X7590.0	1	1	1151.11	0.0	1151.11
1(1)	GUIDE BEARING SUPPORT RING		80TK.X230	Y	PL 80		-to be made in 2 parts			
MF DR					0072-0301-0202-0306					KG
14		AA1011819210	AA10119	639.87	235.0X9240.0	1	1	1431.82	0.0	1431.82
1(1)	TOP RING		IT. NO. 4 OF 12570188601	Y	PL 50		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
15		AA1011819210	AA10119	494.97	2698.0X2698.0	1	1	3000.0	0.0	3000.0
1(1)	FLANGE		IT. NO. 3 OF 12570188601	Y	PL 50		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
16		AA1011819198	AA10119	44.64	310.0X735.0	1	8	75.12	0.0	600.96
8(8)	STIFFR 10TK.x310x735 LG.		IT. NO. 3 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
17		AA1010209248	AA10109	1.97	55.0	1	64	2.27	0.0	145.28
64(64)	BOSS DIA.80x55 LG.		IT. NO.11 OF 12570188602	Y	RND 80					
MF DR	ST-C20-HR-RND				0072-0301-0202-0306					KG
18		AA1011819198	AA10119	193.7	560.0X1105.0	1	8	204.01	0.0	1632.08
8(8)	STIFFENER 40TK.x560x1105 LG.		IT. NO. 4 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
19		AA1011819198	AA10119	7.03	200.0X210.0	1	16	13.84	0.0	221.44
16(16)	RIB 40TK.x200x210 LG.		IT. NO. 5 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgegop	18.05.2021	bklsau	26.05.2021	wtxdee	31.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	31.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	31.05.2021



COMBINED BILL OF MATERIAL

Printed On:17.07.2021

Printed By:

CBOM No: 02570114701 CBOM Var: 00 Revno: 0
 Description: BOTTOM BRACKT CENTRE ASY.(FAB)

Rev Date: 31.05.2021
 Total weight: 30950.0

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
20		AA1011819198	AA10119	212.38	872.0X1295.0	1	1	372.31	0.0	372.31
1(1)	SIDE PLATE		IT. NO. 9 OF 12570188602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0202-0306					KG
21	32998801008 04	AA1011819198	AA10119	4.97	175.0X175.0	1	2	10.0	0.0	20.0
2(2)	PIPE FLANGE (TAPPED)		SEE T.R.7	Y	PL 40		Dia 175/53			
MF DR	TAPPED FLANG 50 NB				0072-0301-0317-0306					KG
22	32998801008 03	AA1011819198	AA10119	4.43	160.0X160.0	1	1	8.44	0.0	8.44
1(1)	PIPE FLANGE (TAPPED)		SEE T.R.7	Y	PL 40		Dia 160/41			
MF DR	TAPPED FLANGE 40 NB				0072-0301-0317-0306					KG
23	32998801008 01	AA1011819171	AA10119	2.02	125.0X125.0	1	1	4.013	0.0	4.013
1(1)	PIPE FLANGE (TAPPED)		SEE T.R.7	Y	PL 32		Dia125/26			
MF DR	TAPPED FLANG 25 NB				0072-0301-0317-0306					KG
24		AA1010209221	AA10109	2.4	110.0	1	1	3.58	0.0	3.58
1(1)	INSERT DIA.71x110 LG.		IT. NO.12 OF 12570188602	Y	RND 71					
MF DR	ST-C20-HR-RND				0072-0202-0306					KG
25	12570188601 00			0.0						
1(1)	DTAIL FOR BOT. BRACKT CEN. ASY		FOR ITEM 1,2,6,14,15	Y						
MF DR			N		0306					
26	12570188602 00			0.0						
1(1)	DTAIL FOR BOT. BRACKT CEN. ASY		FOR IT4-5,7-9,12,16-20,24	Y						
MF DR			N		0306					

CB

ENGG

EMT

WTX

Worked By	tgegop	18.05.2021	bklsau	26.05.2021	wtxdee	31.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	31.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	31.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12560114701 CBOM Var: 00 Revno: 0 Rev Date: 26.05.2021
Description: TOP BRACKET CENTRE ASSEMBLY Total weight: 7010.0

RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
12560114701	00	1	24.06.2021	item no. 17(W97425600013), 18(AA5610001013),19(HW5610026628),20(AA5510055308) & 21(AA5670001001) to be deleted. ---- UNDER CHANGE ADVICE

CBOM - 12560114701 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	28.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	28.05.2021
Approved By	tgerks	29.05.2021	emtak	29.05.2021	wtxblm	28.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12560114701 CBOM Var: 00 Revno: 0
Description: TOP BRACKET CENTRE ASSEMBLY

Rev Date: 26.05.2021
Total weight: 7010.0

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	12560114701 00			7010.0						
1(1)	TOP BRACKET CENTRE ASSEMBLY			Y						
MF CD	TOP BRACKET CENTRE ASSEMBLY	Y			0306-0202					
1	12560184602 00	AA1011819198	AA10119	1416.7	3500.0X3500.0	1	1	4038.8	0.0	4038.8
1(1)	TOP PLATE		IT.NO. 1 OF 12560184602	Y	PL 40		-to be made in 2 parts			
MF DR					0072-0301-0306					KG
2		AA1011819198	AA10119	1791.0	3500.0X3500.0	1	1	4038.8	0.0	4038.8
1(1)	BOTTOM PLATE		IT.NO.2 OF 12560184602	Y	PL 40		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3		AA1011819198	AA10119	304.5	180.0X6946.0	1	1	412.2	0.0	412.2
1(1)	RING		IT.NO.3 OF 12560184602	Y	PL 40		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
4		AA1011819198	AA10119	239.0	1980.0X1980.0	1	1	1292.5	0.0	1292.5
1(1)	SUPPORT FLANGE		IT.NO.4 OF 12560184602	Y	PL 40		-to be made in 2 parts			
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
5	22560184603 00	AA1011819244	AA10119	606.14	220.0X5614.0	1	1	712.61	0.0	712.61
1(1)	TOP GUIDE BEARING SUPPORT RING		IT.NO. 1 OF 22560184603	Y	PL 70		-to be made in 2 parts			
MF DR	GUIDE BRG SUPPORT RING				0072-0301-0202-0306					KG
6		AA1011819198	AA10119	53.4	600.0X500.0	1	8	98.91	0.0	791.28
8(8)	SIDE PLATE		IT.NO.5 OF 12560184602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
7	32560184603 00	AA1011819201	AA10119	28.47	260.0X520.0	1	8	50.14	0.0	401.12
8(8)	COOLER SUPPORT PLATE		IT.NO. 1 OF 32560184603	Y	PL 45					
MF DR	COOLER FLANGE				0072-0301-0202-0306					KG
8		AA1011819155	AA10119	6.5	170.0X220.0	1	8	7.7	0.0	61.6
8(8)	RIB		IT.NO.6 OF 12560184602	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
9		AA1011819198	AA10119	29.4	188.0X500.0	1	1	30.9	0.0	30.9
1(1)	SIDE PLATE		IT.NO.7 OF 12560184602	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG

ENGG**EMT****WTX**

Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	28.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	28.05.2021
Approved By	tgerks	29.05.2021	emtak	29.05.2021	wtxblm	28.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12560114701 CBOM Var: 00 Revno: 0
Description: TOP BRACKET CENTRE ASSEMBLY

Rev Date: 26.05.2021
Total weight: 7010.0

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
10	32560184601 00			77.54						
8(8)	RIB ASSEMBLY		RIB ASSEMBLY	Y						
MF DR	RIB ASSEMBLY		N		0306					
10-1		AA1011819155	AA10119	74.5	500.0X1000.0	1	8	103.0	0.0	824.0
1(8)	RIB 25TK		IT.NO.1 OF 32560184601	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
10-2		AA1010209124	AA10109	0.76	197.0	1	32	0.79	0.0	25.28
4(32)	SLING PROTECTOR D25x196.35 LG.		IT. NO. 2 OF 32560184601	Y	RND 25					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
11	32998801008 01	AA1011819171	AA10119	2.02	125.0X125.0	1	1	4.013	0.0	4.013
1(1)	PIPE FLANGE (TAPPED)		IT. NO. 1 OF 32998801008	Y	PL 32			Dia125/26		
MF DR	TAPPED FLANG 25 NB				0072-0301-0306					KG
12	32998801008 04	AA1011819198	AA10119	4.97	175.0X175.0	1	2	10.0	0.0	20.0
2(2)	PIPE FLANGE (TAPPED)		IT. NO. 4 OF 32998801008	Y	PL 40			Dia 175/53		
MF DR	TAPPED FLANG 50 NB				0072-0301-0317-0306					KG
13		AA1011819198	AA10119	29.5	188.0X500.0	1	15	30.99	0.0	464.85
15(15)	SIDE PLATE 40TKX188X500LG.		IT. NO. 13 OF 12560114701	Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
14	32560184604 00			11.5						
8(8)	SUPPORT ASSEMBLY			Y						
MF DR	SUPPORT ASSEMBLY		N		0306					
14-1		AA1011819155	AA10119	6.7	207.0X327.0	1	8	13.94	0.0	111.52
1(8)	TOP PLATE 25TK.		IT.NO.1 OF 32560184604	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
14-2		AA1011808072	AA10108	1.7	175.0X125.0	1	16	1.8	0.0	28.8
2(16)	SIDE PLATE 10TK.X125X175LG.		IT.NO.2 OF 32560184604	Y	PL 10					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
14-3		AA1011808110	AA10108	1.4	90.0X125.0	1	8	1.48	0.0	11.84
1(8)	RIB 16TKX90X125LG.		IT.NO.3 OF 32560184604	Y	PL 16					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG

ENGG**EMT****WTX**

Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	28.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	28.05.2021
Approved By	tgerks	29.05.2021	emtak	29.05.2021	wtxblm	28.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 12560114701 CBOM Var: 00 Revno: 0
Description: TOP BRACKET CENTRE ASSEMBLY

Rev Date: 26.05.2021
Total weight: 7010.0

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
15		AA1011819228	AA10119	114.75	450.0X580.0	1	8	120.4	0.0	963.2
8(8)	JOINT PLATE 56TKX450X580LG.		IT.NO.15 OF 12560114701	Y	PL 56					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
16		AA1011808099	AA10108	5.9	160.0X160.0	1	16	2.53	0.0	40.48
16(16)	RIB 12TKX160X160LG.		IT.NO.8 OF 12560184602	Y	PL 12					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
17		W97425600013	AA56132	6.0	0.0	1	1	6.3	0.0	6.3
1(1)	OIL-REST-DRYING-SYNTH-ENAMELL		Refer TR-2	Y	JASMINE YELLOW(397)					
RM DR	OIL-REST-DRYING-SYNTH-ENAMELL				0072-0205					LT
18		AA5610001013	AA56101	6.0	0.0	1	1	6.3	0.0	6.3
1(1)	ANTI-CORROSIVE PRIMING PAINT		Refer TR-2	Y	RED					
RM DR	ANTI-CORROSIVE PRIMING PAINT				0072-0205					LT
19		HW5610026628	AA56126	6.0	0.0	1	1	6.3	0.0	6.3
1(1)	PAINT-HIGH QLTY FULL GLOSSY QU		Refer TR-2	Y	LIGHT GREY(631)					
RM DR	PAINT-HIGH QLTY FULL GLOSSY QU				0072-0205					LT
20		AA5510055308	AA55155	6.0	0.0	1	1	6.3	0.0	6.3
1(1)	RUST PREVENTIVE		REFER TR-7	Y	YELLOW					
RM DR	RUST PREVENTIVE				0072-0205					LT
21		AA5670001001	AA56701	2.0	0.0	1	1	2.2	0.0	2.2
1(1)	WHITE SPIRIT			Y						
RM DR	WHITE SPIRIT				0072-0205					LT

CB

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	28.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	28.05.2021
Approved By	tgerks	29.05.2021	emtak	29.05.2021	wtxblm	28.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 22560114701 CBOM Var: 00 Revno: 0 Rev Date: 26.05.2021
Description: TOP BRACKET ARM ASSEMBLY Total weight: 1366.0

RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
22560114701	00	1	24.06.2021	item no. 6 (AA5610001013), 7 (HW5610026628), 8(AA5510055308) & 9 (AA5670001001) to be deleted. ---- UNDER CHANGE ADVICE

CBOM - 22560114701 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	29.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgerks	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 22560114701 CBOM Var: 00
Description: TOP BRACKET ARM ASSEMBLY

Revno: 0

Rev Date: 26.05.2021

Total weight: 1366.0

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	22560114701 00			1366.0						
1(1)	TOP BRACKET ARM ASSEMBLY			Y						
MF	TOP BRACKET ARM ASSEMBLY		Y		0306-0202					
1	22560184602 01	AA1011819198	AA10119	394.7	450.0X2793.0	1	2	414.38	0.0	828.76
2(2)	DETAIL OF TOP BRACKET ARM ASSY		IT. NO. 1 OF 22560184602	Y	PL 40					
MF DR	TOP PLATE 40TKX450X2793LG.				0072-0301-0306					KG
2		AA1011819210	AA10119	52.0	300.0X450.0	1	1	55.63	0.0	55.63
1(1)	PAD 50TKx300x450LG		IT.NO.2 OF 22560184602	Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3	32560184602 00			273.7						
1(1)	RIB ASSEMBLY		RIB ASSY.	Y						
MF DR	RIB ASSEMBLY		N		0306					
3-1		AA1011819155	AA10119	267.3	500.0X2793.0	1	1	287.76	0.0	287.76
1(1)	RIB 25TK		IT.NO.1 OF 32560184602	Y	PL 25					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3-2		AA1010209124	AA10109	0.8	200.0	1	8	0.81	0.0	6.48
8(8)	BAR D25x200LG.		IT.NO.2 OF 32560184602	Y	RND 25					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
4		AA1011819236	AA10119	130.0	450.0X580.0	1	1	135.5	0.0	135.5
1(1)	FLANGE 63TKx450x580 LG.		IT.NO.2 OF 22560114701	Y	PL 63					
MF DR	ST-FE410 WB-PLATE				0072-0301-0317-0306					KG
5		AA1011819139	AA10119	16.5	500.0X210.0	1	6	17.3	0.0	103.8
6(6)	STIFFNER 20TK		IT.NO.3 OF 22560184602	Y	PL 20					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
6		AA5610001013	AA56101	3.0	0.0	1	1	3.3	0.0	3.3
1(1)	ANTI-CORROSIVE PRIMING PAINT		REFER TR-4	Y	RED					
RM DR	ANTI-CORROSIVE PRIMING PAINT				0072-0205					LT
7		HW5610026628	AA56126	3.0	0.0	1	1	3.3	0.0	3.3
1(1)	PAINT-HIGH QLTY FULL GLOSSY QU		REFER TR-4	Y	LIGHT GREY(631)					
RM DR	PAINT-HIGH QLTY FULL GLOSSY QU				0072-0205					LT

ENGG**EMT****WTX**

Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	29.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgerks	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 22560114701 CBOM Var: 00
Description: TOP BRACKET ARM ASSEMBLY

Revno: 0

Rev Date: 26.05.2021

Total weight: 1366.0

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
8				AA5510055308	AA55155	3.0	0.0	1	1	3.3	0.0	3.3
1(1)			RUST PREVENTIVE		REFER TR-7	Y	YELLOW					
RM	DR		RUST PREVENTIVE				0072-0205					LT
9				AA5670001001	AA56701	1.0	0.0	1	1	1.2	0.0	1.2
1(1)			WHITE SPIRIT			Y						
RM	DR		WHITE SPIRIT				0072-0205					LT

CBOM - 22560114701

ENGG

EMT

WTX

Worked By	tgepkm	06.05.2021	emtmkm	27.05.2021	wtxdee	29.05.2021
Checked By	tgekun	26.05.2021	emtvme	29.05.2021	wtxabh	29.05.2021
Approved By	tgerks	31.05.2021	emtak	29.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 22570114701 CBOM Var: 00 Revno: 0 Rev Date: 31.05.2021
Description: BOTTOM BRACKET ARM ASSY. Total weight: 2870.0

CBOM - 22570114701 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgegop	18.05.2021	bklsau	28.05.2021	wtxabh	29.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	29.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 22570114701 CBOM Var: 00
Description: BOTTOM BRACKET ARM ASSY.

Revno: 0

Rev Date: 31.05.2021

Total weight: 2870.0

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	22570114701 00			2870.0						
1(1)	BOTTOM BRACKET ARM ASSY.			Y						
MF	FAB. & M/C		N		0306-0313-0202					
1		AA1011819279	AA10119	888.6	1935.0X650.0	1	1	933.8	0.0	933.8
1(1)	JOINT PLATE 90TK.x650x1935 LG.			Y	PL 90					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
2		AA1011819210	AA10119	312.53	1225.0X650.0	1	1	328.45	0.0	328.45
1(1)	BOTTOM PLATE 50TKx650x1225 LG.			Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
3		AA1011819210	AA10119	230.88	905.0X650.0	1	1	242.65	0.0	242.65
1(1)	TOP PLATE 50TK.x650x905 LG.			Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
4		AA1011819198	AA10119	531.67	1510.0X1225.0	1	1	610.41	0.0	610.41
1(1)	MAIN RIB 40TK.x1225x1510 LG.			Y	PL 40					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
5		AA1011819171	AA10119	115.69	1510.0X305.0	1	4	121.58	0.0	486.32
4(4)	STIFFNER 32TK.x305x1510 LG.			Y	PL 32					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
6		AA1011819210	AA10119	94.44	650.0X375.0	1	1	100.54	0.0	100.54
1(1)	PAD 50TK.x375x650 LG.			Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
7		AA1010209124	AA10109	1.06	275.0	1	4	1.1	0.0	4.4
4(4)	SLING PROTECTOR DIA.25x275 LG.			Y	RND 25					
MF DR	ST-C20-HR-RND				0072-0315-0306					KG
8		AA1011819210	AA10119	189.3	742.0X650.0	1	1	198.94	0.0	198.94
1(1)	SIDE TOP PLATE 50TKx650x742LG.			Y	PL 50					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
9		AA1011819171	AA10119	38.76	505.0X305.0	1	2	40.66	0.0	81.32
2(2)	STIFFNER 32TK.x305x505 LG.			Y	PL 32					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG

ENGG**EMT****WTX**

	Initial	Date	Initial	Date	Initial	Date
Worked By	tgegop	18.05.2021	bklsau	28.05.2021	wtxabh	29.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	29.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	29.05.2021



COMBINED BILL OF MATERIAL

Printed On:16.07.2021

Printed By:

CBOM No: 22570114701 CBOM Var: 00
Description: BOTTOM BRACKET ARM ASSY.

Revno: 0

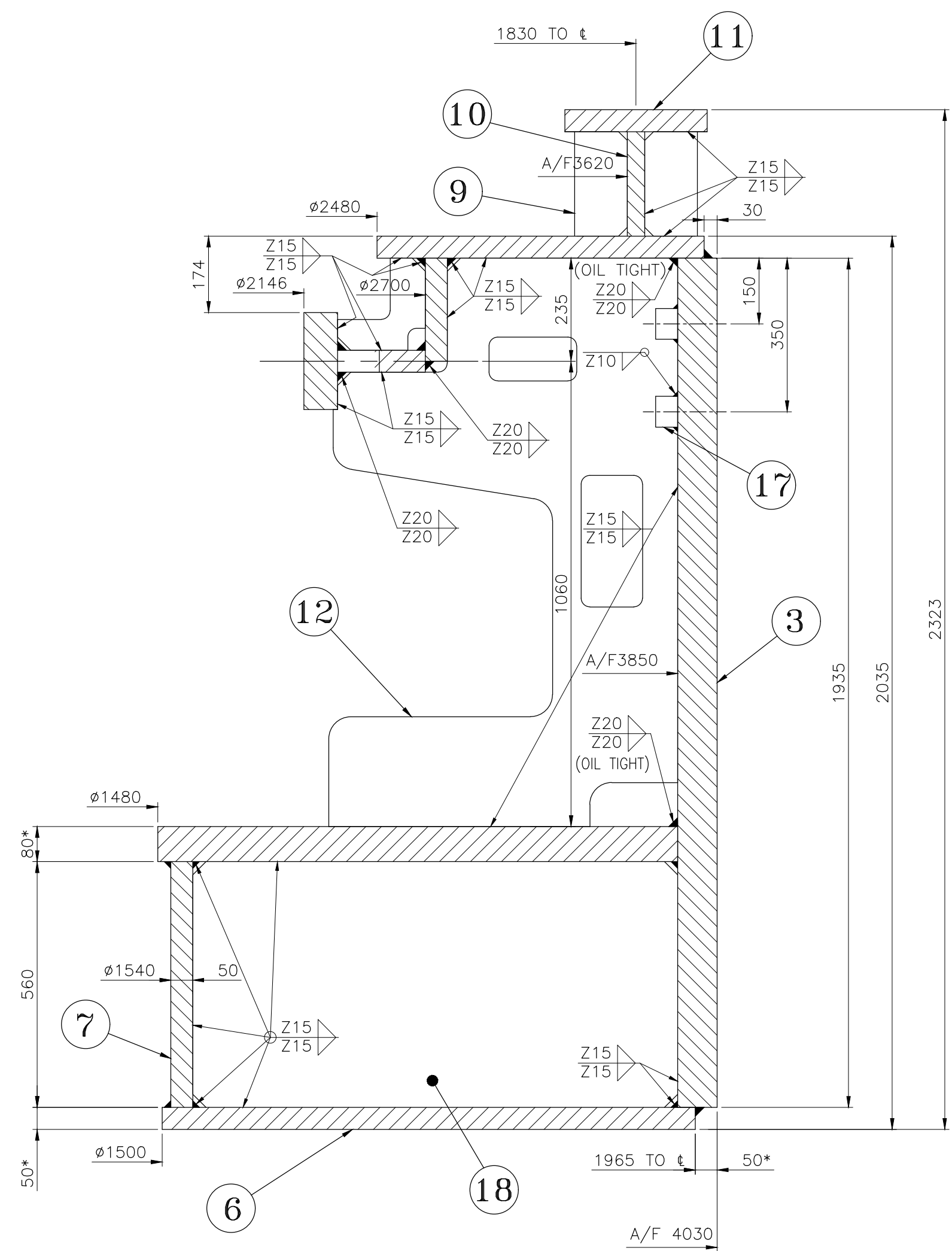
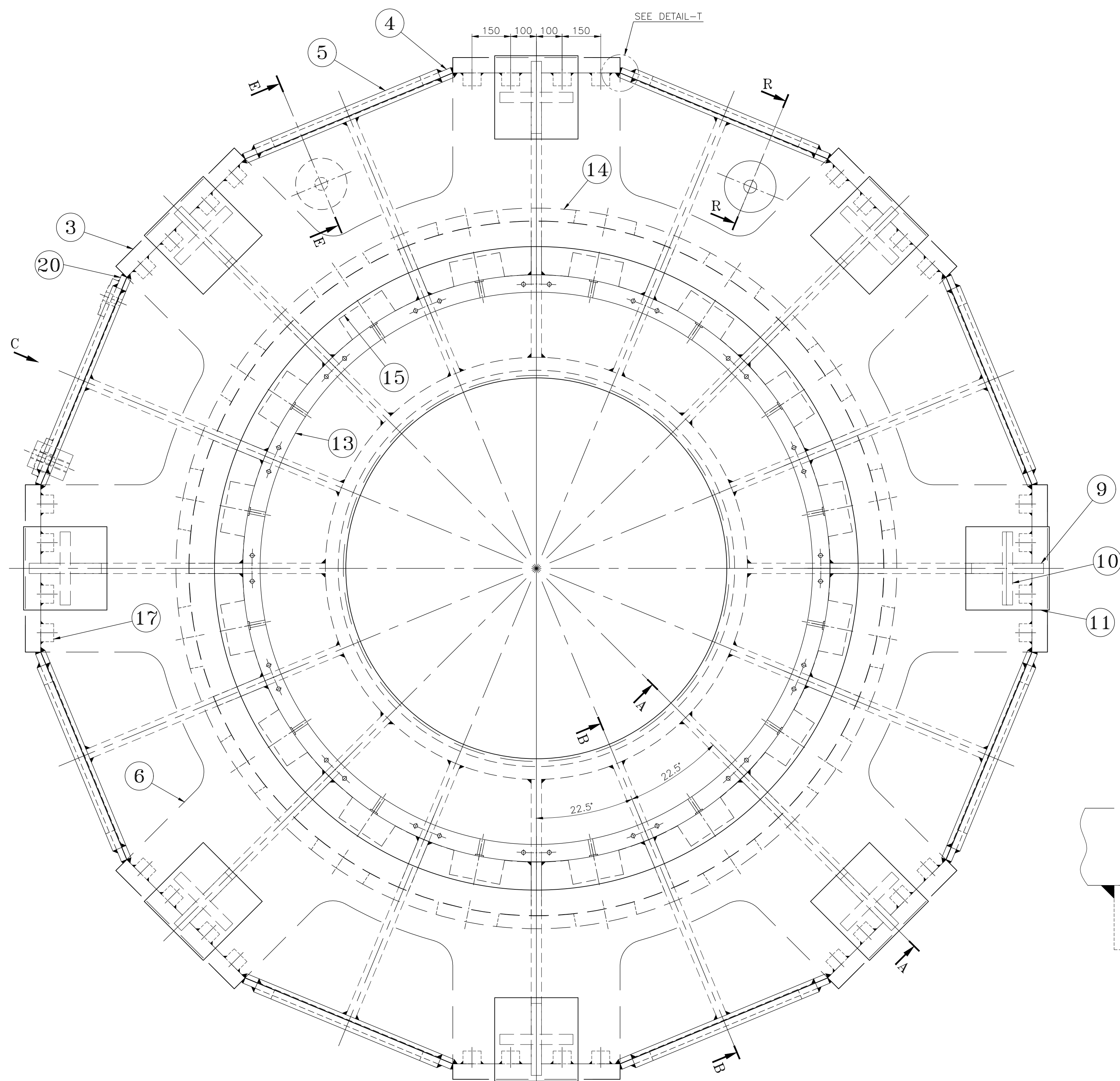
Rev Date: 31.05.2021

Total weight: 2870.0

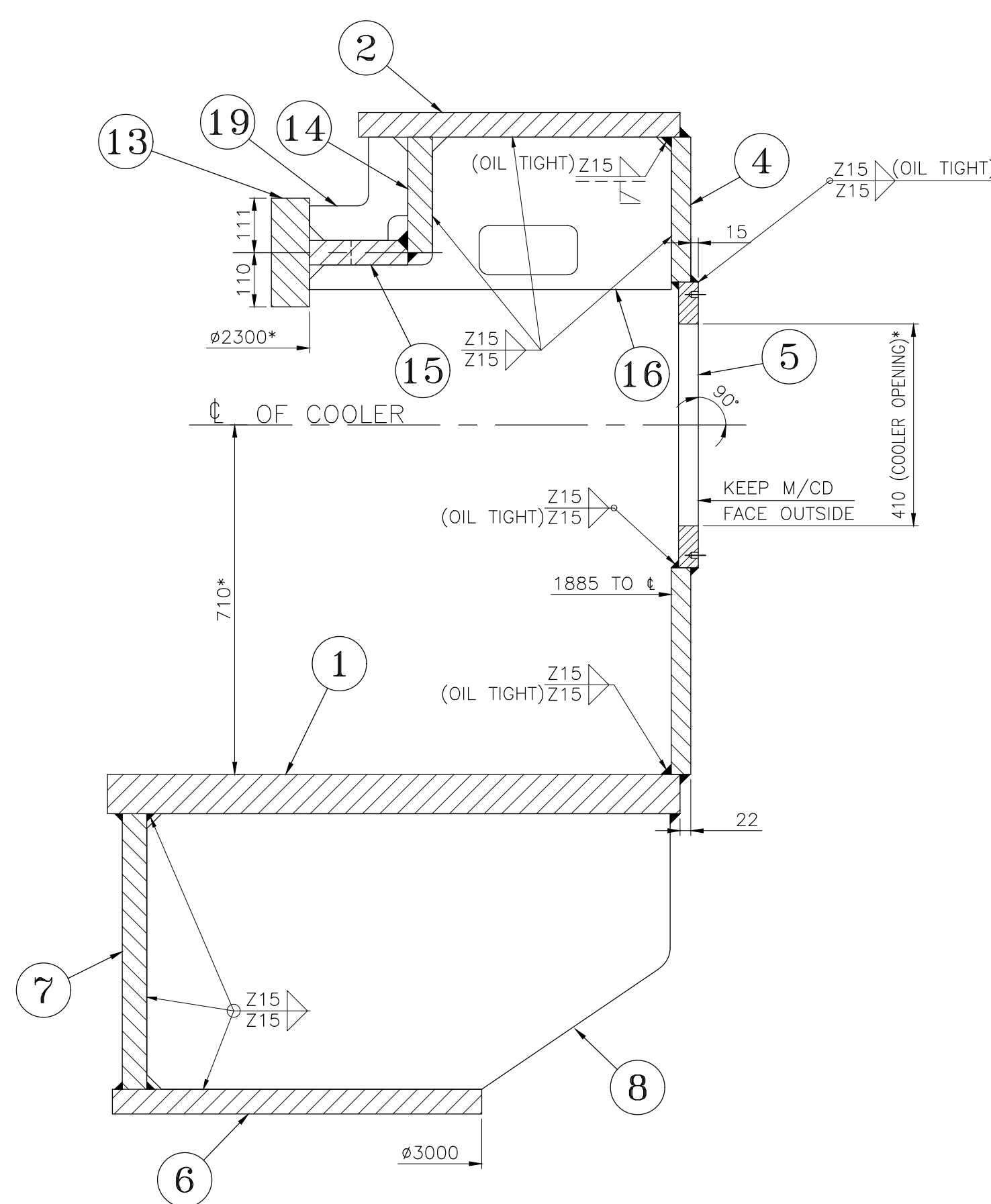
Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty(Total)	Description				Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ	Cat	Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
10				AA1011819210	AA10119	102.05	650.0X400.0	1	1	107.25	0.0	107.25
1(1)			SIDE PLATE 50TK.x400x650 LG.			Y	PL 50					
MF	DR		ST-FE410 WB-PLATE				0072-0301-0306					KG
11				AA1011819171	AA10119	22.75	305.0X297.0	1	2	23.91	0.0	47.82
2(2)			STIFFNER 32TK.x297x305 LG.			Y	PL 32					
MF	DR		ST-FE410 WB-PLATE				0072-0301-0306					KG
12				AA1011819171	AA10119	27.5	359.0X305.0	1	2	28.9	0.0	57.8
2(2)			STIFFNER 32TK.x305x359 LG.			Y	PL 32					
MF	DR		ST-FE410 WB-PLATE				0072-0301-0306					KG
13				AA1011819198	AA10119	18.77	300.0X230.0	1	1	22.77	0.0	22.77
1(1)			STIFFNER 40TK.x230x300 LG.			Y	PL 40					
MF	DR		ST-FE410 WB-PLATE				0072-0301-0306					KG

CBOM - 22570

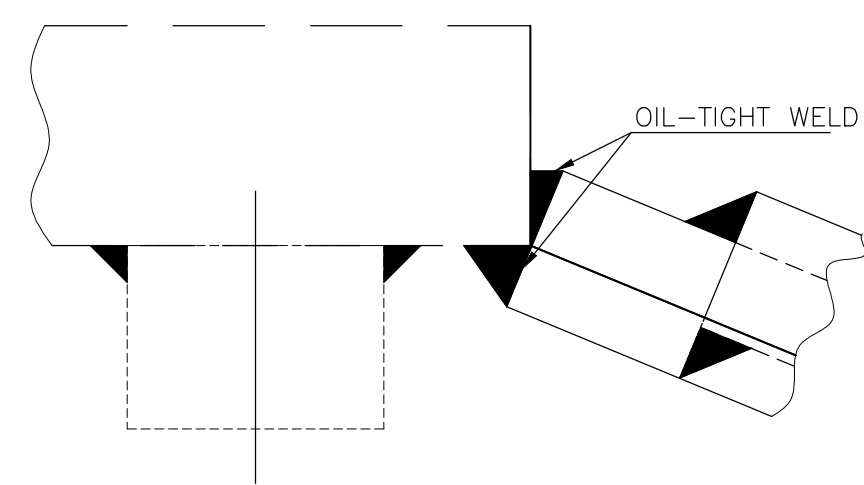
	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tgegop	18.05.2021	bklsau	28.05.2021	wtxabh	29.05.2021
Checked By	tgema	28.05.2021	bklsau	31.05.2021	wtxabh	29.05.2021
Approved By	tgerks	31.05.2021	emtak	31.05.2021	wtxblm	29.05.2021



SECTION-AA



SECTION-BB

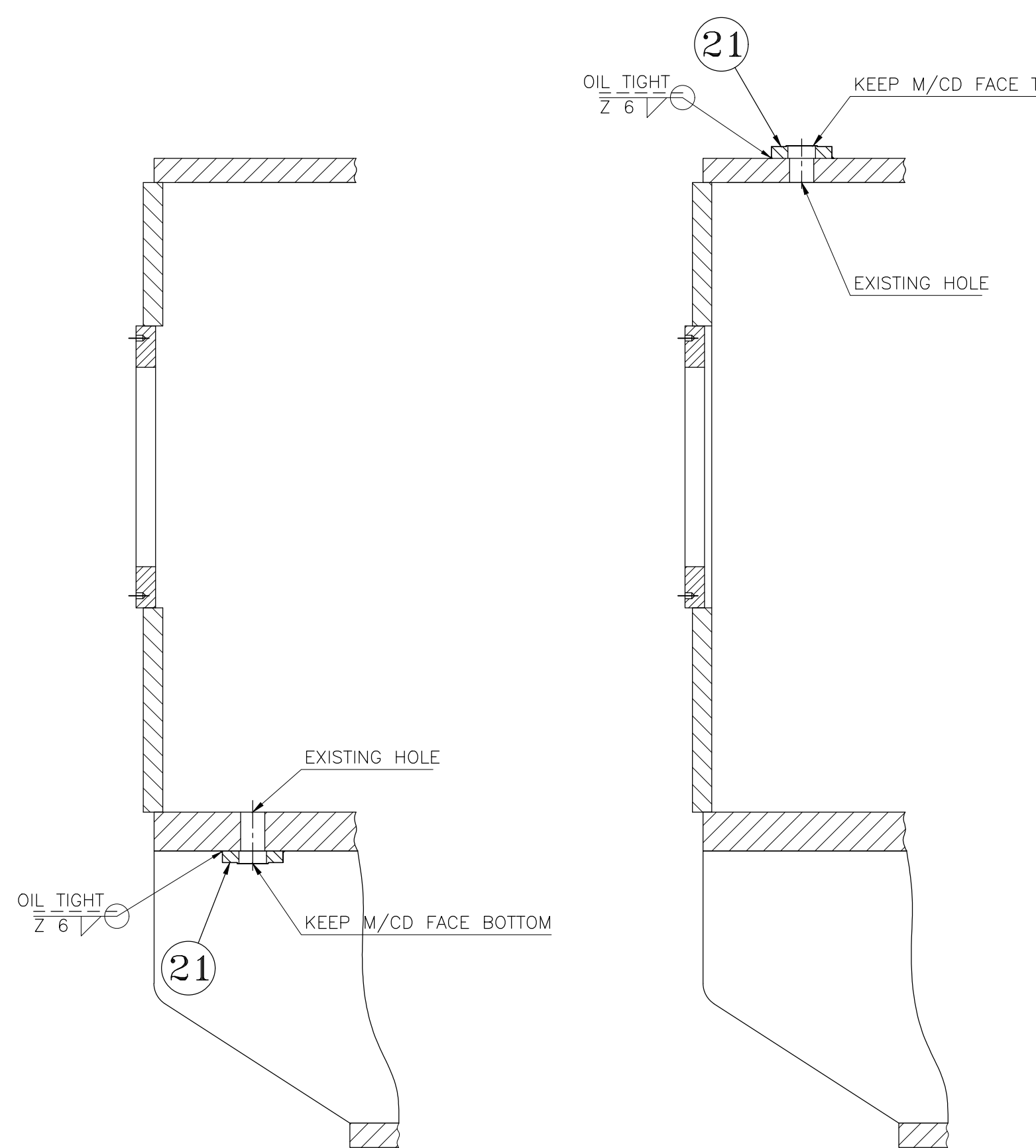


ENLARGED DETAIL-T

FABRICATION WEIGHT INCLUDING WELDING = 30950 KG

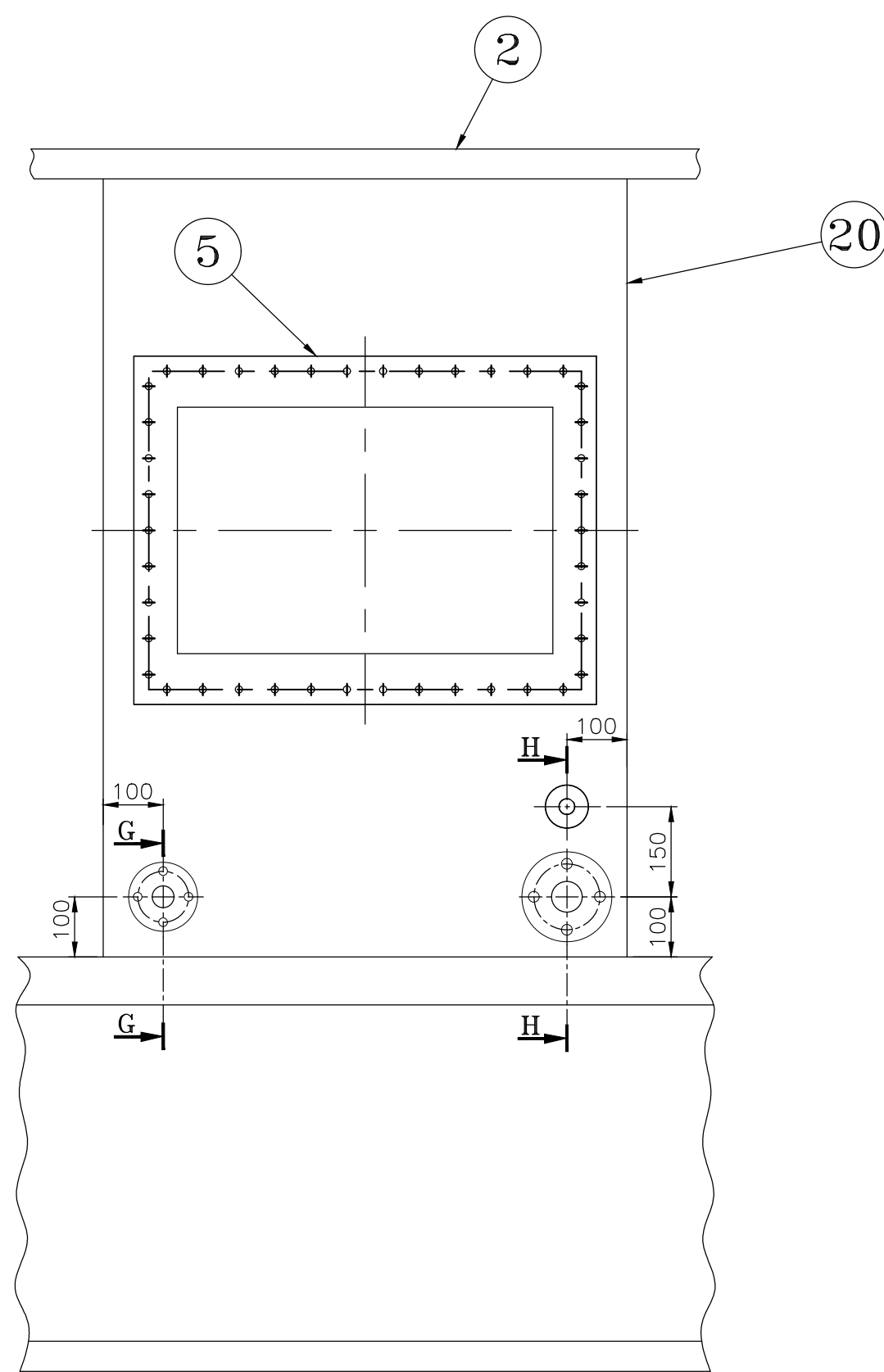
TECHNICAL REQUIREMENTS:

1. ALL WELDS ARE CONTINUOUS AND 15 MM FILLET UNLESS OTHERWISE STATED.
2. ALL WELDS SHALL BE AS PER GR-III OF AA0622101 UNLESS OTHERWISE STATED.
3. ALL OIL-TIGHT WELDS SHALL UNDERGO D.P. TESTING AS PER BP0850199 AFTER FIRST ROOT RUN AND AFTER COMPLETE WELDING. THE OIL-TIGHT WELDS SHALL BE PROTECTED WITH TRP BHARAT TC PF 4 AS PER BP55188. THE OIL-TIGHT WELDS SHALL BE PAINTED ONLY AFTER THE COMPLETION OF GRAVITY TESTING AS PER BP0850095.
4. WATER REQUIRED FOR GRAVITY TEST = 14900 LITRES (APPROX.)
5. THE MACHINED FACES OF ITEM 5 ARE TO BE KEPT PARALLEL TO THE BRACKET AXIS DURING WELDING (VERTICALLY WITHIN 2 MM).
6. THE PRE-MACHINED FACES OF ITEM 13 ARE TO BE LEVELLED USING A WATER LEVEL AND TACK WELDS. RE-CHECK THE LEVELLING BEFORE FINAL WELDING.
7. BEFORE WELDING ITEMS 5, 21, 22, 23, & 24, STRESS RELIEVE THE ASSEMBLY AS PER BP0640299.
ALL TAPPED HOLES AND MACHINED SURFACES ARE TO BE PROTECTED DURING STRESS RELIEVING.
8. AFTER STRESS RELIEVING, RE-APPLY TRP ON MACHINED SURFACES TO BP0690084.
9. DIMENSIONS MARK THUS * ARE FOR D.O. REFERENCE ONLY.
10. APPLY TRP ON MACHINED SURFACES TO BP 0690084.
11. PAINING NOTE FOR OUTER SURFACES:-
SURFACES OF ASSY. ARE TO BE PREPARED PRIOR TO PAINTING TO AA 0674101.
AFTER PREPARATION APPLY 2 COAT OF ANTI CORROSIVE PRIMING PAINT TO AA56101 AND 2 COAT OF HIGH QUALITY FULL GLOSSY OIL DOOR FINISHING PAINT TO AA56126 COLOUR LIGHT GREY TO SHADE NO. ISC: 631 OF IS: 5.
12. PAINING NOTE FOR INNER SURFACES:-
INNER SURFACES OF OIL CHAMBER TO BE PREPARED PRIOR TO PAINTING TO AA0674101.
APPLY 2-COAT OF OIL RESISTANT, AIR DRYING, SYNTHETIC ENAMEL TO AA56132 COLOUR SHADE JASMINE YELLOW.
13. ALL PLATES (40 MM AND ABOVE) TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE WELDING.

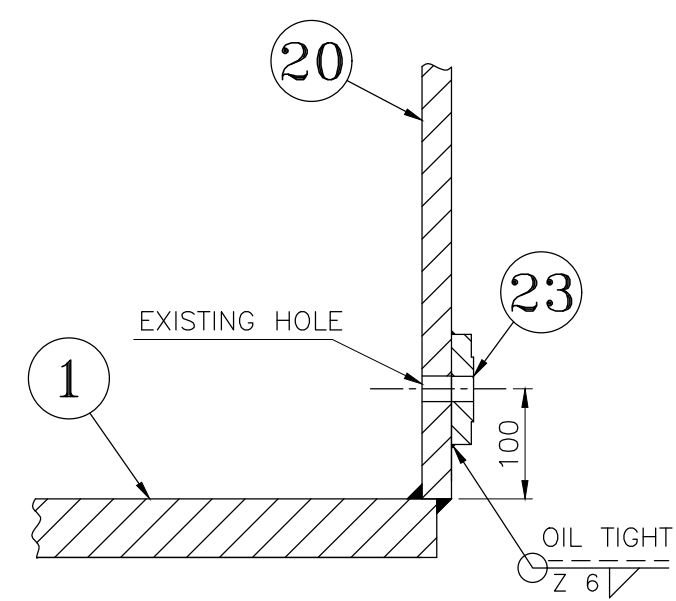


SECTION-EE
(FOR OIL DRAIN)

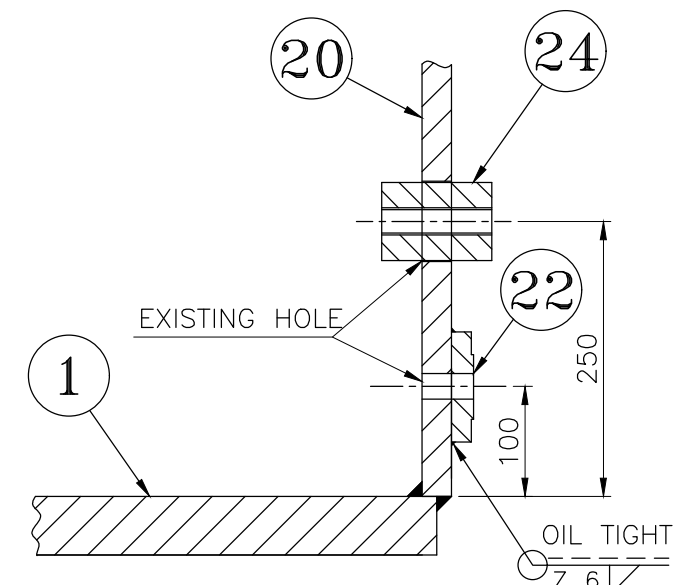
SECTION-RR
(FOR OIL FILLING)



VIEW AS ARROW-C



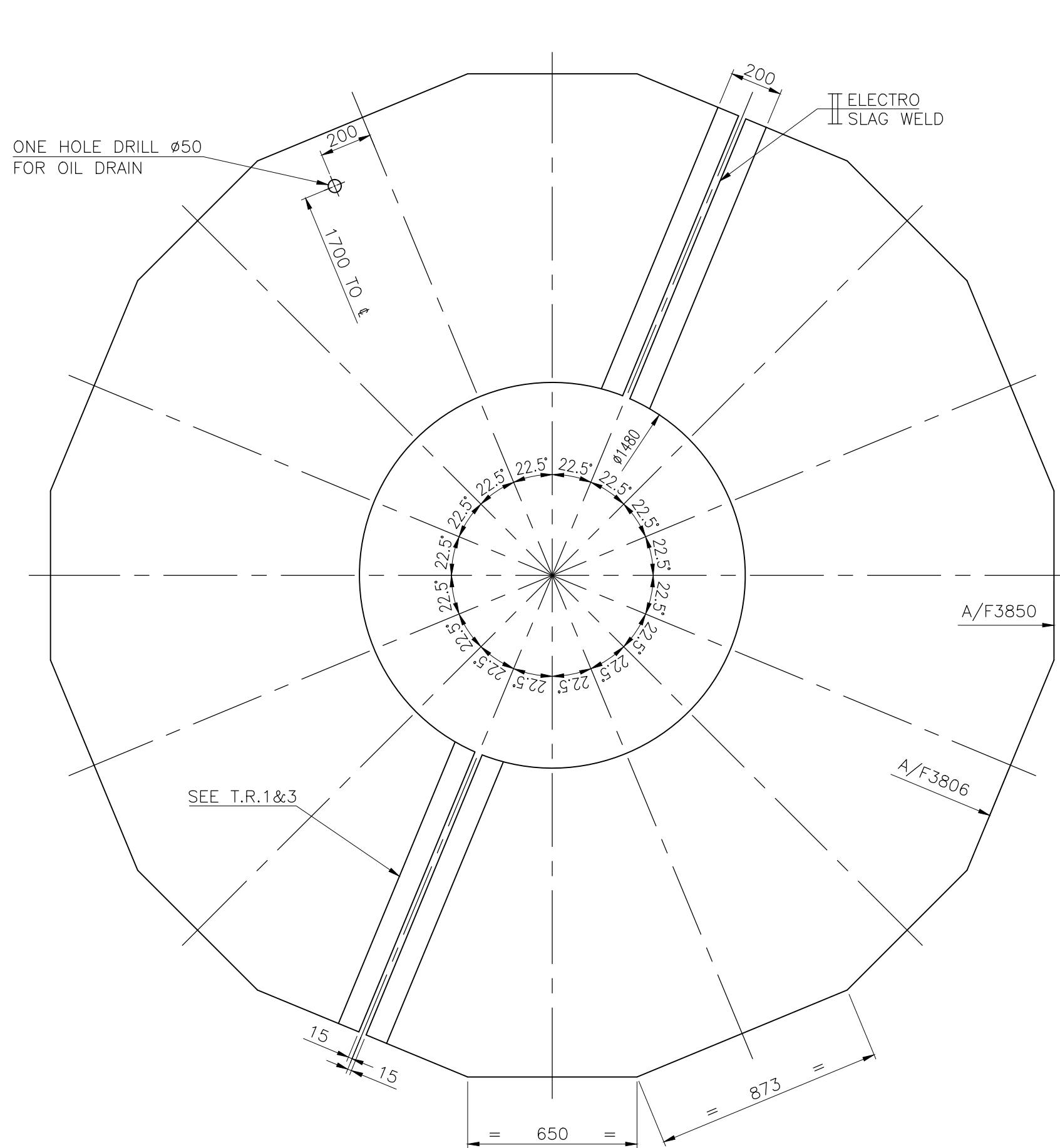
SECTION-GG
(FOR OIL LEVEL INDICATOR)



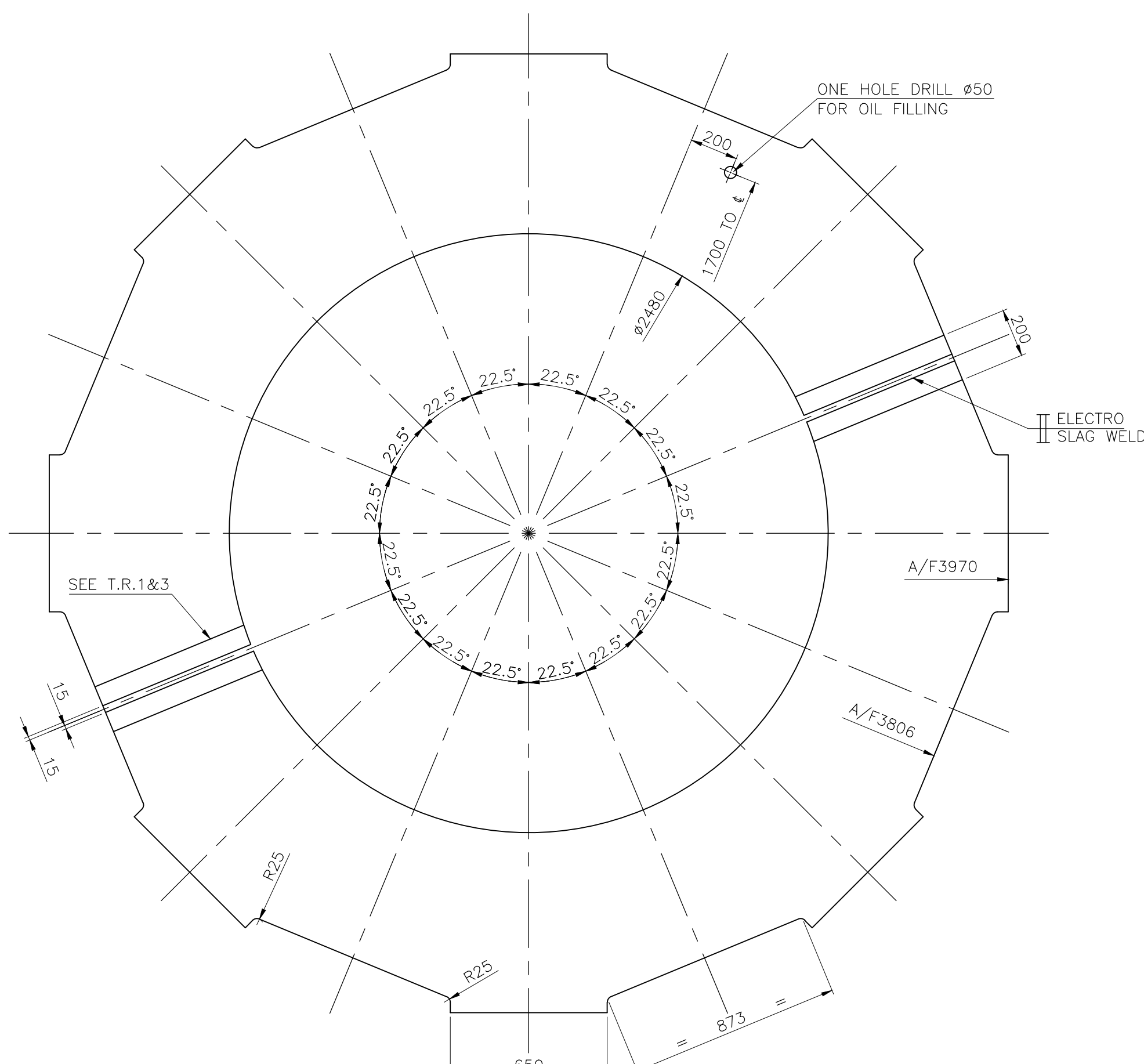
SECTION-HH
(FOR H.S. LUB.)

[illegible][illegible]

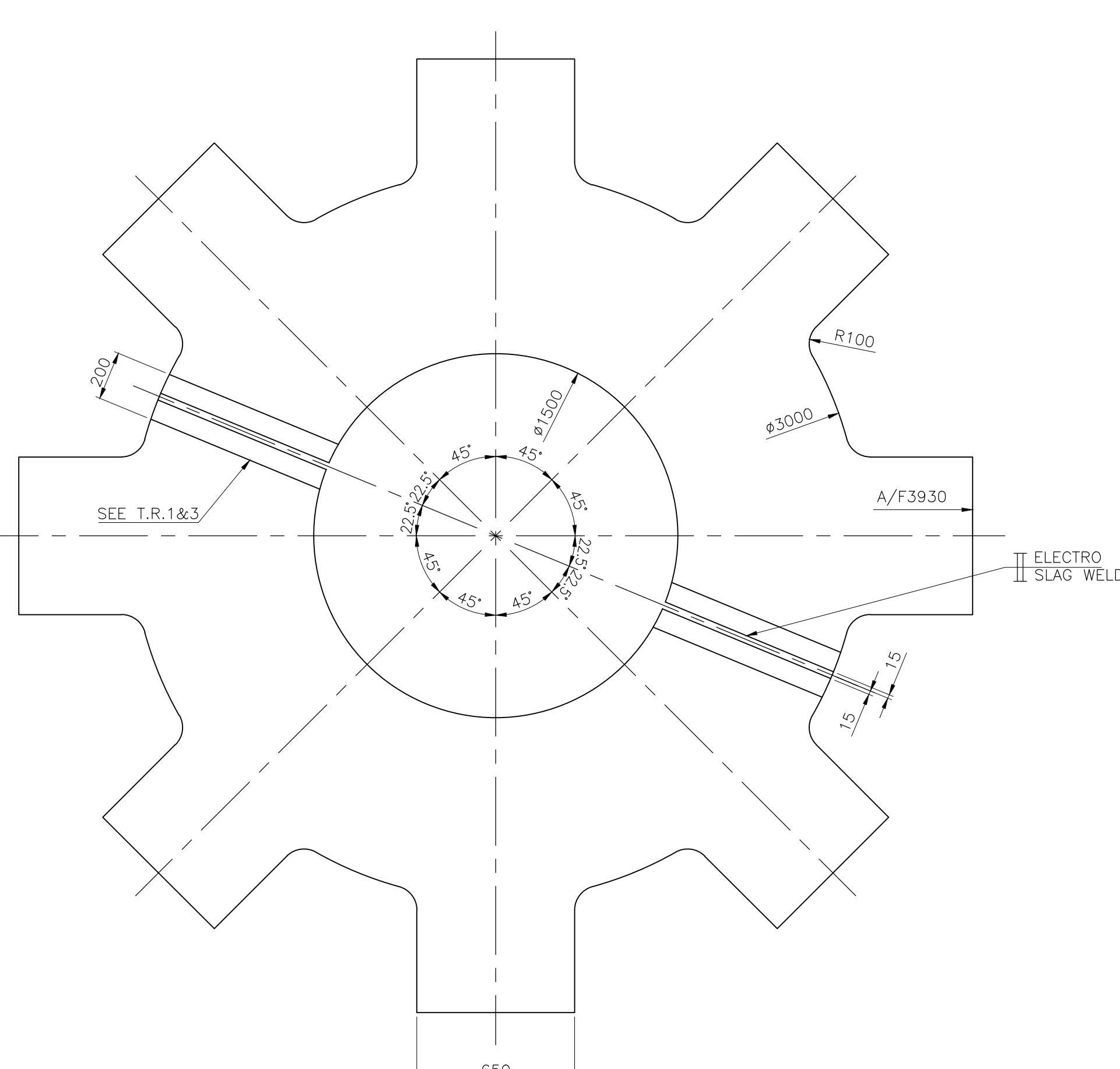
DRG. NO. 1 257 01 88601



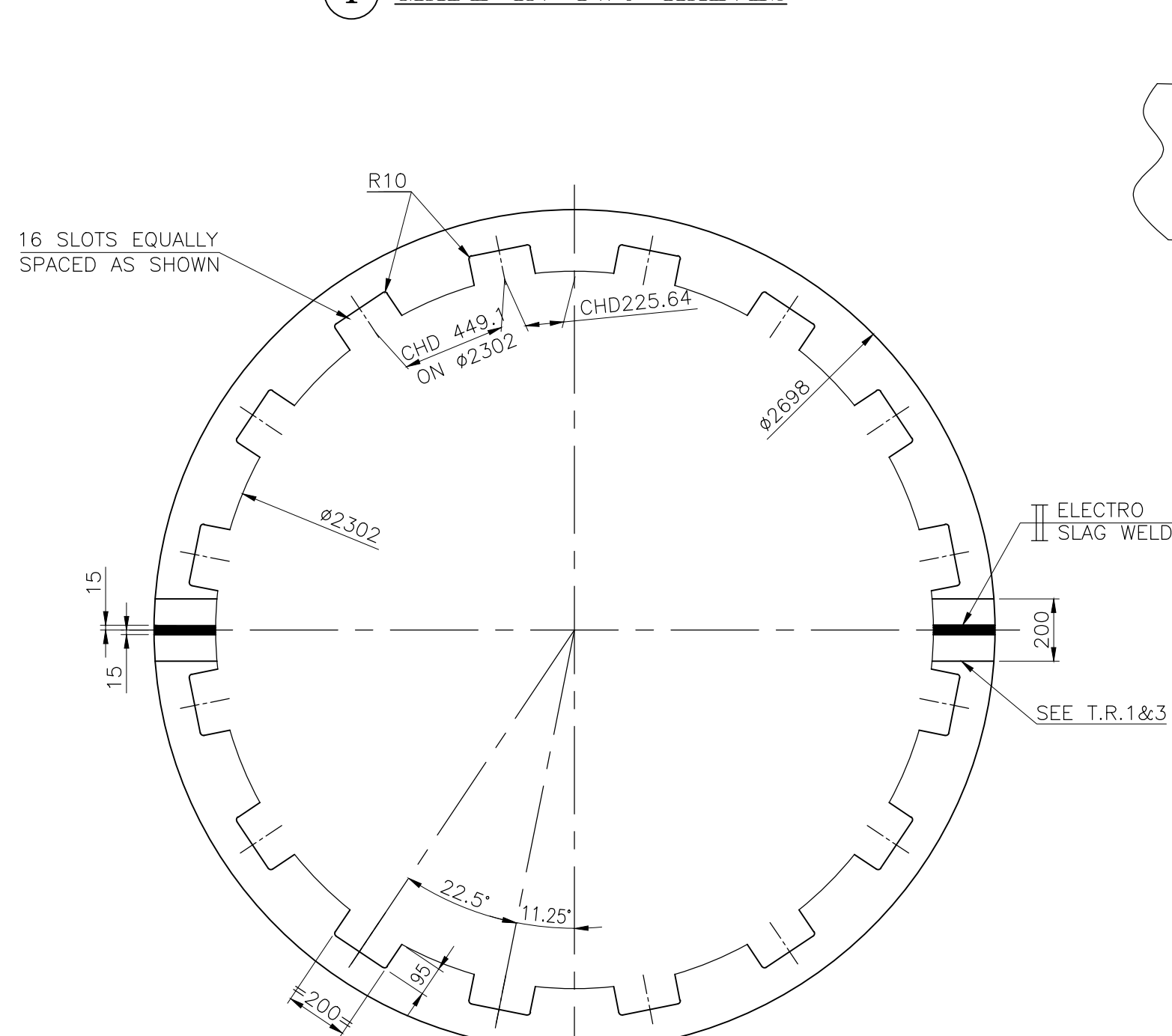
✱
SUCTION END
① MADE IN TWO HALVES



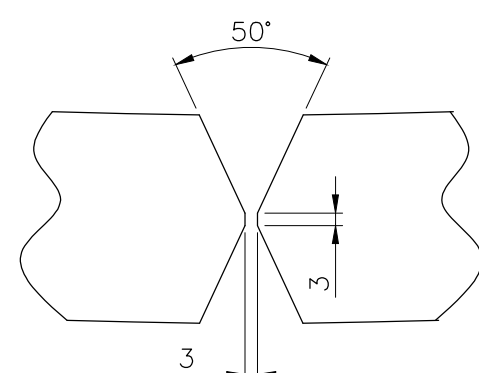

 SUCTION END
 (2) MADE IN TWO HALVES



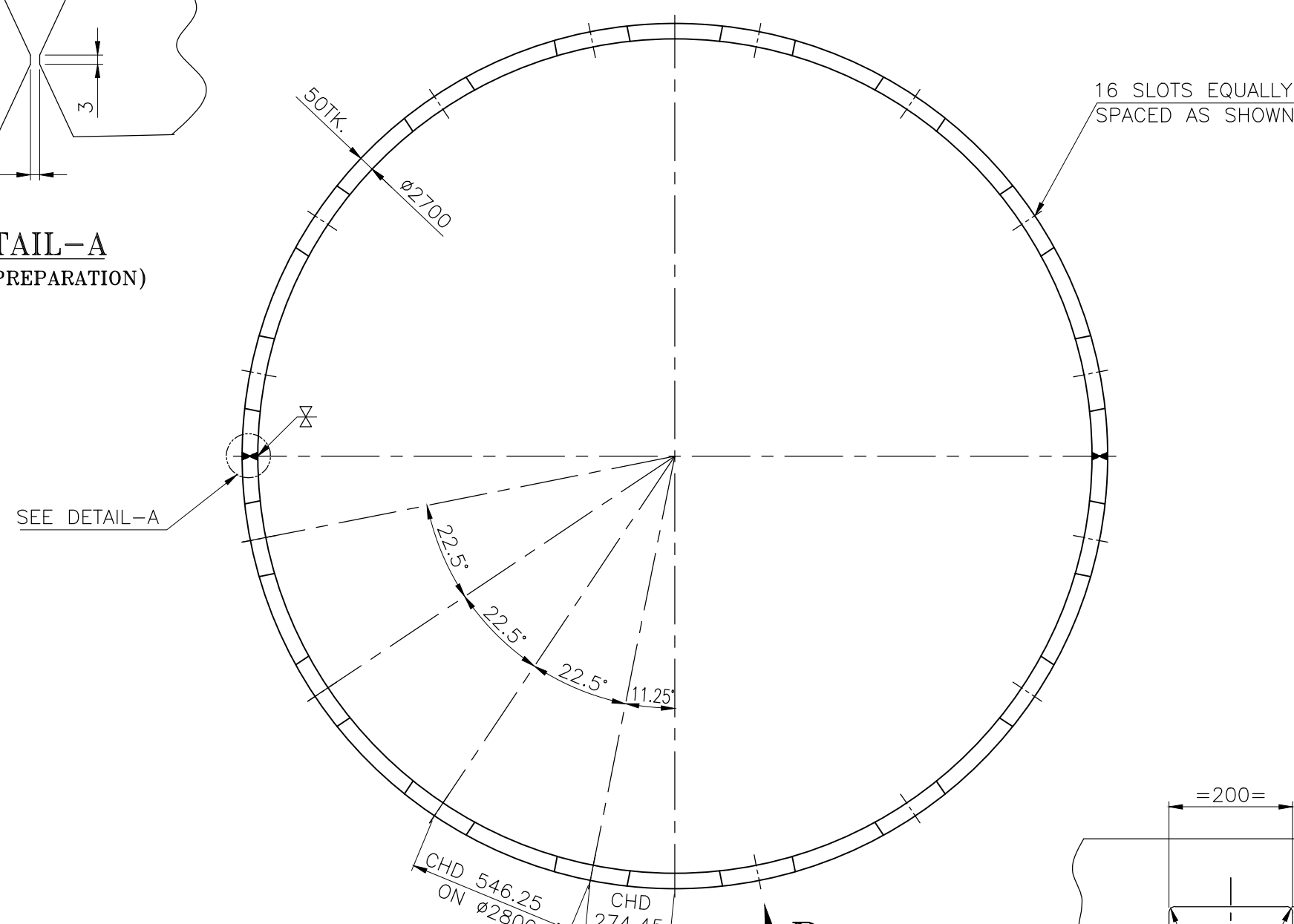

SUCTION END
 (5) MADE IN TWO HALVES



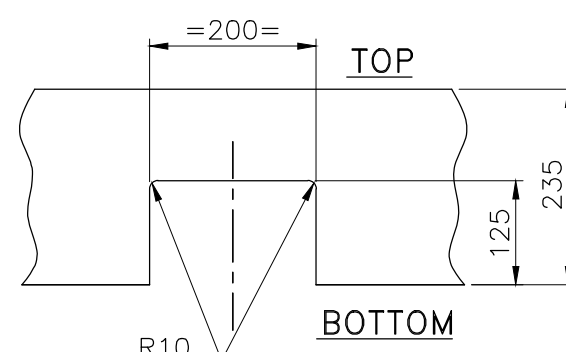

SUCTION END
 (2) MADE IN TWO HALVES



DETAIL-A
(WELD PREPARATION)



④ SUCTION END
MADE IN TWO HALVES



VIEW AS ARROW-P

TECHNICAL REQUIREMENTS:-

1. 100MM PLATE ON EACH SIDE OF ALL ELECTRO SLAG WELD / FULL PENETRATION WELD JOINT SHALL BE UT TESTED TO AA 0850120 BEFORE USE.
2. FULL PENETRATION WELD / ELECTROSLAG WELDS ARE TO BE GR II TO A0622101.
3. FOR JOINING ITEM 1, 2, 3 & 5 ELECTROSLAG WELDING TO BE DONE, IF ELECTROSLAG WELDING IS NOT POSSIBLE THEN ARC/GAS WELDING MAY BE DONE WITH WELD PREPARATION. REFER DETAIL 'A' FOR WELD PREPARATION.
4. ALL PLATES TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.
5. ITEM 1, 2 & 5 TO BE FLATTENED WITHIN 1 MM BEFORE USE.

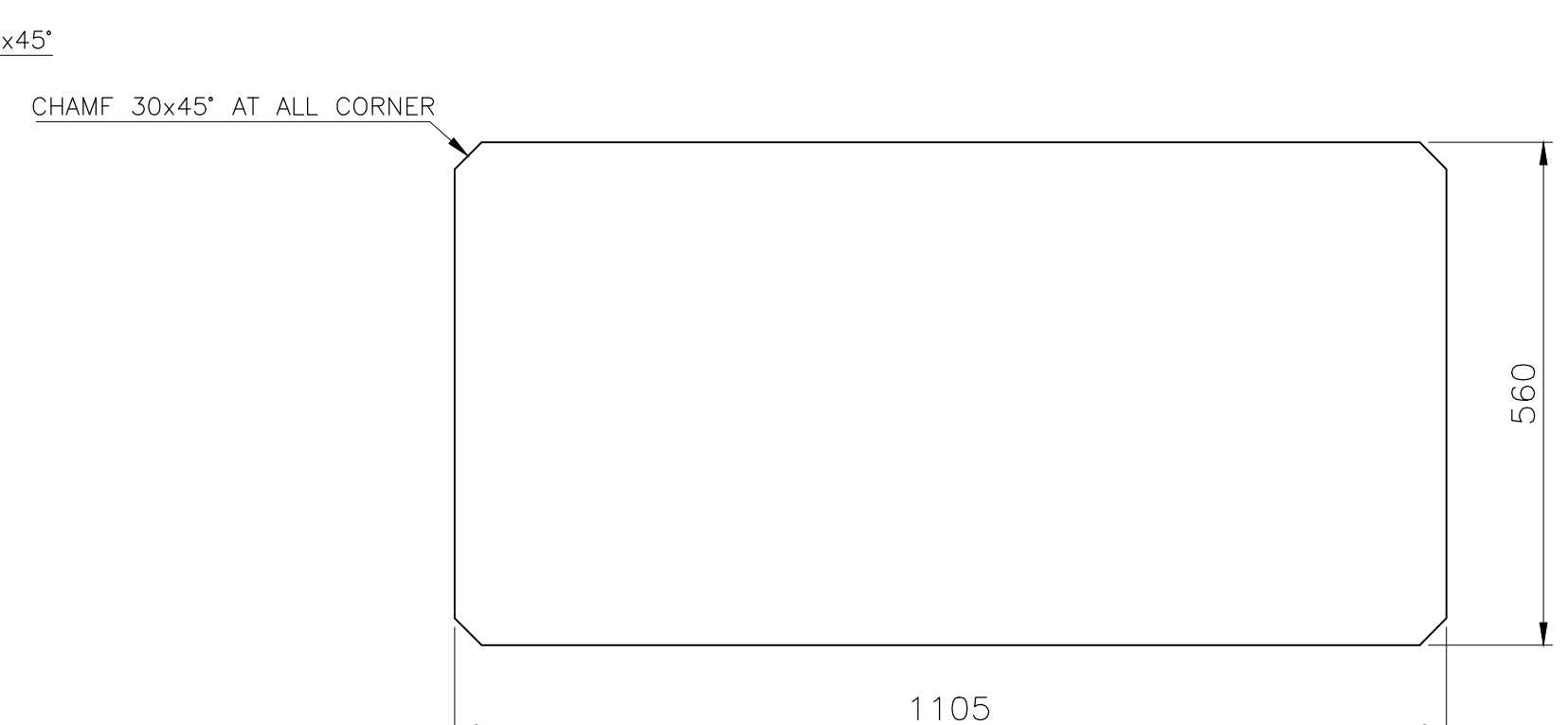
				005	BOTTOM PLATE 50TK. S.S.S.Q. PLATE	1			AA1011808218			3061.18										
									AA10108													
				004	TOP RING 50TK. S.S.S.Q. PLATE	1			AA1011808218			639.87										
									AA10108													
				003	FLANGE 50TK. S.S.S.Q. PLATE	1			AA1011808218			494.97										
									AA10108													
				002	TOP PLATE 50TK. S.S.S.Q. PLATE	1			AA1011808218			2798.43										
									AA10108													
				001	INTERMEDIATE PLATE 80TK. S.S.S.Q. PLATE	1			AA1011808269			6234.74										
									AA10108													
59	QTY	64	REMARKS	75	VAR. NO.	79	ITEM NO.	27	DESCRIPTION	58	DRAWING NO.	77	IT/NO.	34	MATL. CODE	45	S/C	56	UNIT	65	QTY	71
28	CARD TYPE 3			28	CARD TYPE 1								32	VAR.	46	MATL. SPCL.	54		68			
28	CARD TYPE 3			28	CARD TYPE 1								32	VAR.	46	MATL. SPCL.	54		68			

ADDITIONAL INFORMATION NO. 33208 TO 13-A-231-57		mRfkn dk i-dkjk :k xk-gdRfjkstsk dk uke TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		HMS-790/150-30K PRANAHITHA-CHEVELLA LIS PACKAGE 6 (NECL/TSGNCO)																																													
STATUS OF DRAWING U																																																	
DISTRIBUTION OF PRINTS HGE-2, TEX-1, HGM-2, FBM-2		 HAKjr gsoh bysDv&vDj fyfeVsm Haksisky BHARAT HEAVY ELECTRICALS LTD. BHOPAL		<table><tr><th>drnk:</th><th>uKe</th><th>NAME</th><th>glrk-<u>SGN</u></th><th>mauk</th><th>DATE</th><th>osfj</th></tr><tr><td>CURIN</td><td>SKN</td><td></td><td></td><td></td><td>07.01.16</td><td>afj</td></tr><tr><td>BRG</td><td>AKV</td><td></td><td></td><td></td><td>14.01.16</td><td>afj</td></tr><tr><td>Wagstsr</td><td>RGN</td><td></td><td></td><td></td><td>14.01.16</td><td>afj</td></tr><tr><td></td><td>RK/AD</td><td></td><td></td><td></td><td>14.01.16</td><td>afj</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>14.01.16</td><td>afj</td></tr></table>				drnk:	uKe	NAME	glrk- <u>SGN</u>	mauk	DATE	osfj	CURIN	SKN				07.01.16	afj	BRG	AKV				14.01.16	afj	Wagstsr	RGN				14.01.16	afj		RK/AD				14.01.16	afj						14.01.16	afj
drnk:	uKe	NAME	glrk- <u>SGN</u>	mauk	DATE	osfj																																											
CURIN	SKN				07.01.16	afj																																											
BRG	AKV				14.01.16	afj																																											
Wagstsr	RGN				14.01.16	afj																																											
	RK/AD				14.01.16	afj																																											
					14.01.16	afj																																											

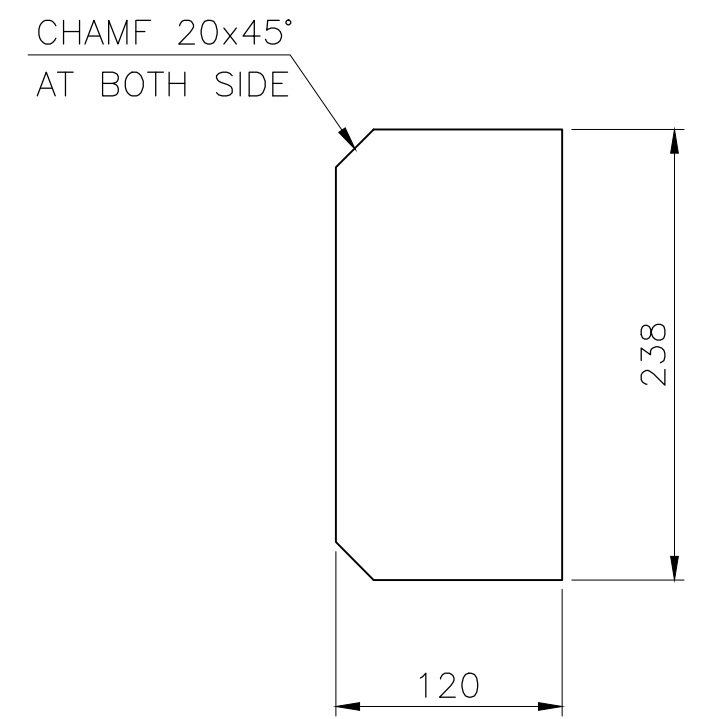
0	f0HAKH0J DEPT. 403 dksm CODE 403	uVky uki dh Jskh INTOL. DIMS. GR. 32500001404		vuqRt SCALE 1:17.5	Hxk f.d. 3 WGRH (K) NA	0 257 01 88601	M&Kbxb dk lnhANZ TO ASSY. ORG. 0 257 01 88601	en d- ITEM NO. 1,2,6,14 & 15	en lq, ITEM 000
	'Ah'AZBRL	<u>DETAILS FOR BOTTOM BRACKET CENTER ASSY.</u>				M&Kbxb dBRWING NO.		0257 01 88601	
						'B d-SHT. NO. 01		'B d-SHT. NO. 01	

(ALL DIMENSIONS ARE IN mm)

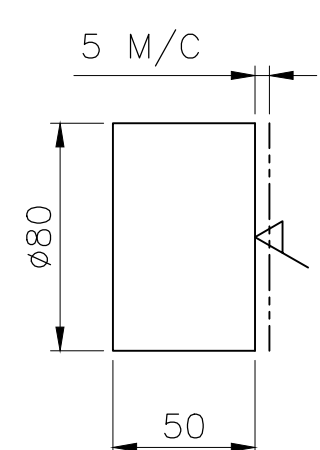
DRG. NO. 1 257 01 88602



2

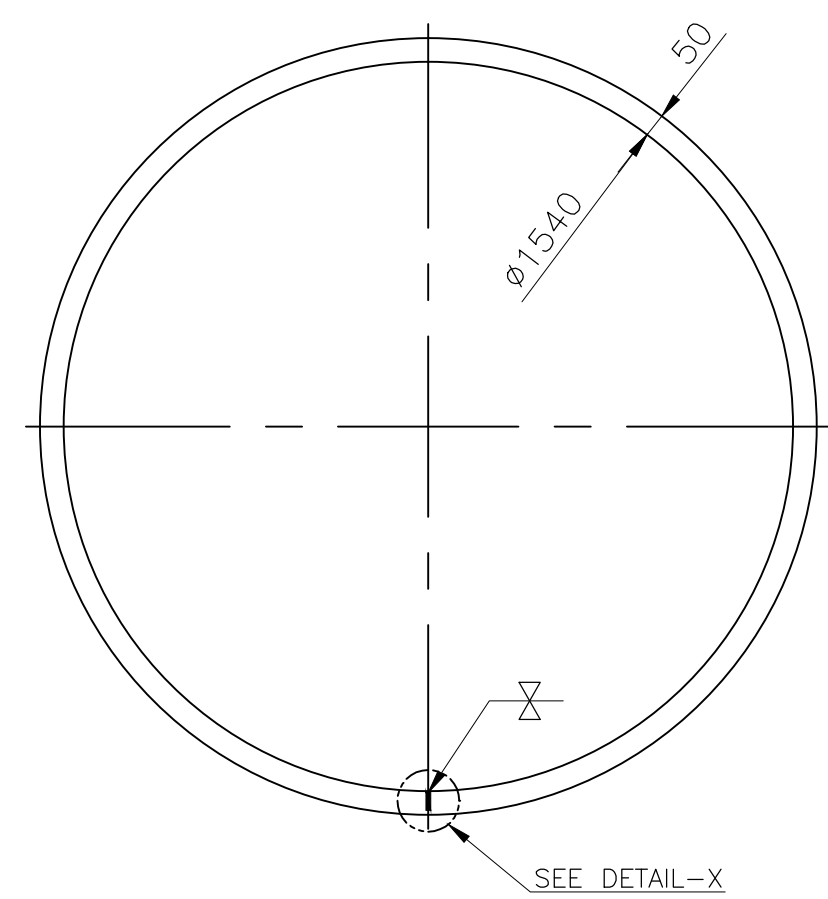
[illegible]

4

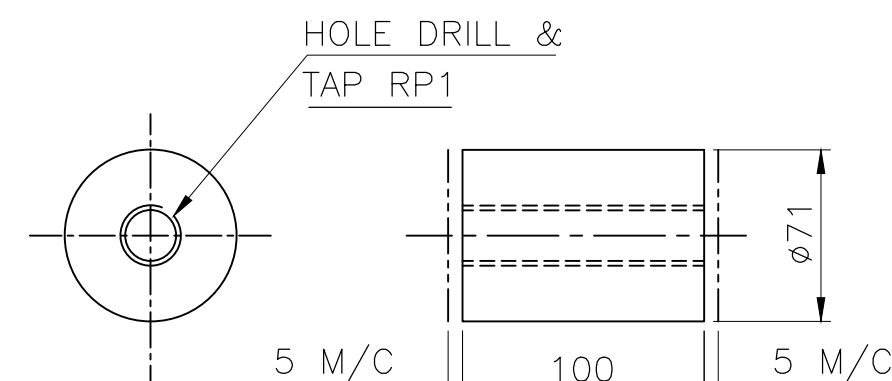


11

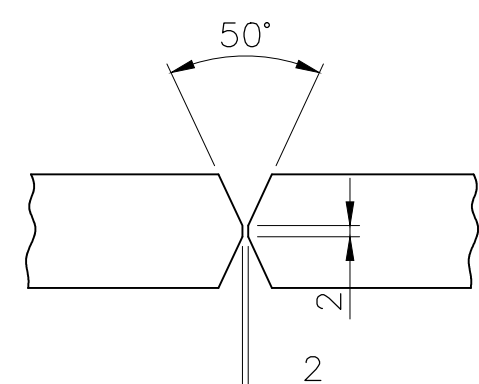
SECTION-AA



APPROX DEV. LENGTH = 4995



12



ENLARGED DETAIL X

[illegible]

TECHNICAL REQUIREMENT:-

1. ITEM 7 TO BE FLATTENED WITHIN 1 MM AFTER GAS CUTTING.
2. SURFACE FINISH OF MACHINE SURFACES SHALL BE 3.2 MICRONS OR BETTER.
3. ALL WELDS TO GR. II TO AA0622101 AND DP TESTED TO BP0850199.
4. ALL WELDS ARE CONTINUOUS EXCEPT WHERE OTHERWISE STATED.
5. ALL PLATES (40 MM AND ABOVE) TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.

REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	30 Sep 2016
ZONE			ZONE			ZONE			ZONE	01	19.02.16	
												SHAPE & SIZE OF ITEM 6 UPDATED

ADDITIONAL INFORMATION	WO. 33208 TO 13-A-231-57
STATUS OF DRAWING	

DISTRIBUTION OF PRINTS	
HGE -2	TEX -1
HGM -2	FBM -2

```
mRlkn dk [-dk] ;k
xk-gd@lf;kstuk dk uke
TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT
```



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

foHAKY DEPT HGE	vu... Vky... uki dh Jashk UNTILTIMS GR.		vuqir SCALE	HAK VE
dkml CODE 403	3-250-00-01404		1:15	

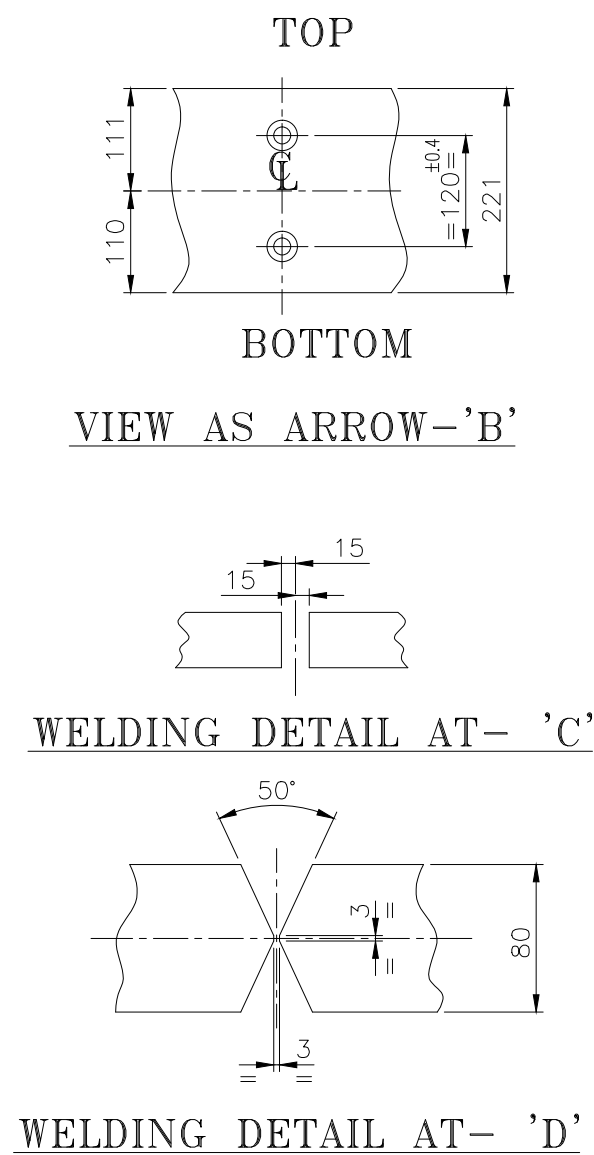
'Ah'AZOLE

DETAILS FOR BOTTOM
BRACKET CENTRE ASSY

uke NAME	glrk_SIGN	fnukd DATE	osfj_ dh lq:k NO. OF VAR
SKN	<i>Shub</i>	07.01.16	NA
BK/AKV	<i>3x Singh</i>	14.01.16	
BC/AD	<i>2.1</i>	14.01.16	

vis_ M&kbZax dk lanHAZ REF. TO ASSY. DRG. 0 257 01 88601	en d_— ITEM NO. —	en la[;k NO. OF ITEM 012
M&kbZax DRAWING NO. 1 257 01 88602	iqu_REV 01	
— 257 01 88601	— 257 01 88602	

(ALL DIMENSIONS ARE IN mm)



TOOL LIST		
SI.NO	TOOL NO.	DESCRIPTION
1.	1598462	SEGMENTAL DRILL JIG FOR 32 PAIRS OF HOLES (TOTAL 64 HOLES) M16 ON TOP & BOTTOM FACE AND 16 PAIRS OF HOLES (TOTAL 32 HOLES) Ø18 SIDE RADIAL HOLES.

1. ALL WELDS TO CLASS II TO AA06221101 AND DP TESTED TO BP 0850199.
2. ALL MACHINED SURFACES SHALL BE 3.2 MICRONS OR BETTER.
3. ITEM 001 TO BE ULTRASONICALLY TESTED TO AA0850120 BEFORE CUTTING.
4. FOR JOINING ITEM 1 ELECTROSLAG WELDING TO BE DONE. IF ELECTROSLAG WELDING IS NOT POSSIBLE THEN ARC/GAS WELDING MAY BE DONE WITH WELD PREPARATION. REFER DETAIL 'D' FOR WELD PREPARATION.
5. APPLY TRP ON MACHINED SURFACE TO BP0690084.

				001		SUPPORT RING 80TK.X230 S.S.S.Q. PLATE		1				AA1011808269		NA		NA		1010.10					
												AA10108											
58	64	65	75	78	79	25	29	58	59	60	77	79	31	34	55	56	57	58	72	73	74	75	76
VAR00		REMARKS		VAR NO.		ITEM NO.		DESCRIPTION		DRAWING NO.		IT. NO.		MATL. CODE		UNIT WT.		ZONE		OS			
												32		46		68							
												VAR.		MATL. SPFCN.		QTY.							

ADDITIONAL INFORMATION WO. 33208 TO 13-A-231-57	mRkN dk i-dkj;k xk-gd@fjkstuk dk uke HMS-790/150-30K PRANAHITHA-CHEVELLA LIS PACKAGE 6 (NECL/TSGENCO)
STATUS OF DRAWING U	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

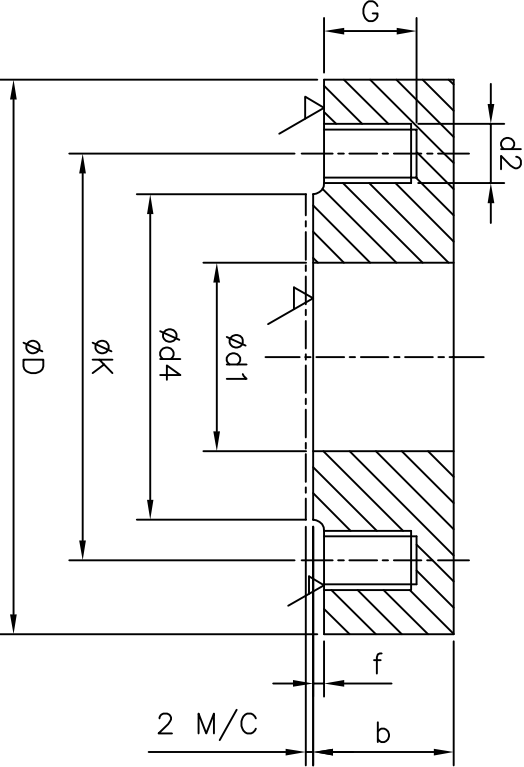
DISTRIBUTION OF PRINTS		HAKr gsoh bysIDV&dYI ftyeVSM		DRN.		SKN		07.01.16	
		HAKsiky		BK/AKV		14.01.16		14.01.16	
HGE-1	TEX-1	BHARAT HEAVY ELECTRICALS LTD.		BK/AD		14.01.16		14.01.16	
HGM-2	FBM-2	BHOPAL							

FOHAXX DEPT. HGE	WU_Vky_uki dh jshk	vugur	HAK: fd_xshk	Makbbx d laniH2	en d	en la: No.
UNTL. DIMS. GR	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	BB2 (M/C)	0 257 01 88601	013
CODE 403	32500001404	1:7.5				ITEM NO.
"AH" AZHLE				Makbbx d DRAWING NO.	2 257 01 88601	01
GUIDE BRG. SUPPORT						
RING ASSY.						
"B" d SHT. NO. 01				"B" d SHT. NO. 01		

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

80010 88 662 3 0010 DRG.



ITEM NO.	NOM. BORE	PIPE O/D	FLANGE				RAISED FACE		NO	TAPPING			PLATE SIZE TK.	DEPTH OF HOLES G
			d1	D	b	d4	f			d2	K			
001	25	33.7	36	115	30	68	2		4	M12	85		32	20
002	32	42.4	45	140	38	78	2		4	M16	100		40	25
003	40	48.3	51	150	38	88	3		4	M16	110		40	25
004	50	60.3	63	165	38	102	3		4	M16	125		40	25
005	65	76.1	78	185	38	122	3		4	M16	145		40	25
006	80	88.9	91	200	38	138	3		8	M16	160		40	25
007	100	114.3	116	220	38	158	3		8	M16	180		40	25
008	15	22	24	95	30	45	2		4	M12	65		32	20
009	200	220	221	340	43	268	3		12	M20	295		45	30

			009	PIPE FLANGE 200 N/B S.S.Q PLATE	1				AA10108	16.40	
			008	PIPE FLANGE 15 N/B S.S.Q PLATE	1				AA10108	1.31	
			007	PIPE FLANGE 100 N/B S.S.Q PLATE	1				AA10108	7.43	
			006	PIPE FLANGE 80 N/B S.S.Q PLATE	1				AA10108	6.72	
			005	PIPE FLANGE 65 N/B S.S.Q PLATE	1				AA10108	6.07	
			004	PIPE FLANGE 50 N/B S.S.Q PLATE	1				AA10108	4.97	
			003	PIPE FLANGE 40 N/B S.S.Q PLATE	1				AA10108	4.33	
			002	PIPE FLANGE 32 N/B S.S.Q PLATE	1				AA10108	3.79	
			001	PIPE FLANGE 25 N/B S.S.Q PLATE	1				AA10108	2.02	
VAR00	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	STD	DRAWING NO.	IT. NO.	MATL. CODE	VAR.	UNIT WT.	QTY.

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REF. DRG. NO.

SIGN. & DATE

INVENTORY NO.

DATE

ALTERED

CHECKED

APPROVED

REV. 04

DATE 26.07.13

ALTERED – MKS

CHECKED – JSY

APPROVED – KNS

ST.No. ADDED IN ITEM 001 & 004
DWG. UPDATED.

REV. 02

DATE 5.4.91

ALTERED

CHECKED

APPROVED

MANDMADE

M.K.SACHDEV

A.GURU

TK.OF FLANGE, PLATE SIZE & WTS. OF ITS.
1 TO 8 MODIFIED.
COLOUM FOR HOLE DEPTH & IT.9 ADDED.

28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

ADDITIONAL INFORMATION

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

HGE – 1
PLM – 4

TEX – 1
FBM – 7

REV. 01

DATE 9.9.87

ALTERED

CHECKED

APPROVED

DIA. d1 & PLATE TK. ADDED.
DRG. RETRACED.

HYDRO GENERATOR

REVISION TO BE APPROVED BY STANDARD GROUP

NAME OF PRODUCT OR NAME OF CUSTOMER/PROJECT

uKE@ NAME

H. ATTRI

Sd/-

3.4.80

VAR.

DESCRIPTION

DRG. NO.

IT. NO.

MATL. CODE

VAR.

UNIT WT.

QTY.

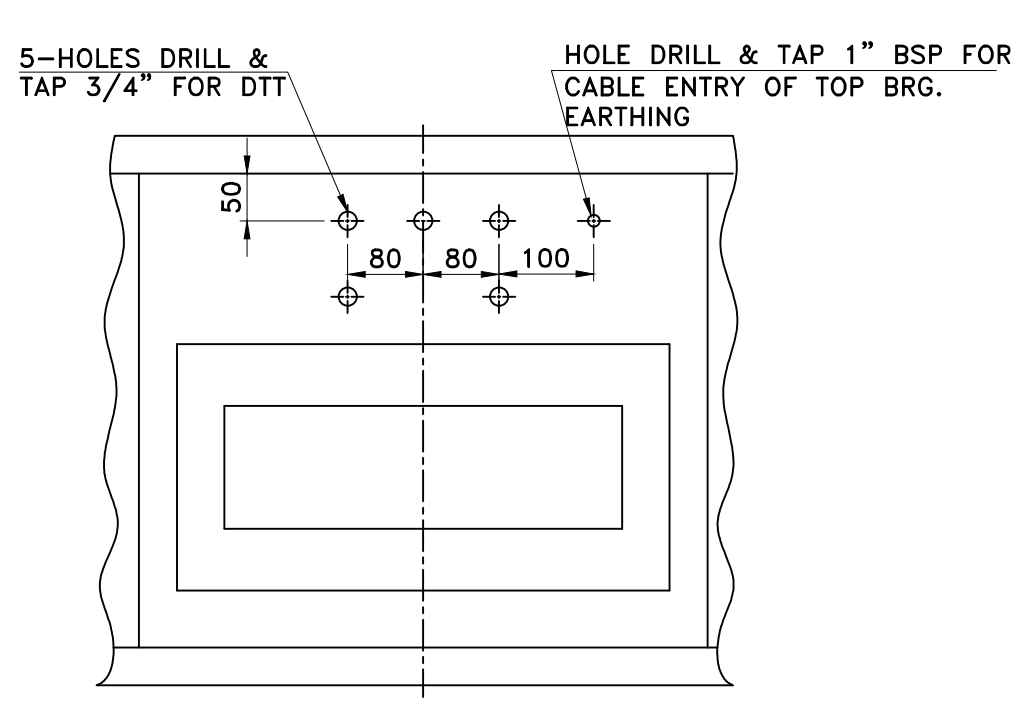
PIPE FLANGE (TAPPED)

3 299 88 01008

04

SIGN. & DATE

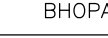
INVENTORY NO.



VIEW AS ARROW-N

- FABRICATED WEIGHT FOR ORDERING PURPOSES IS 7352Kgs.
WHICH INCLUDES WELDMENT WEIGHT.

[illegible]

TYPE-3	28	CARD TYPE-1	28	CARD TYPE-2
ADDITIONAL INFORMATION W.O. NO. 30329T036-A-23156 STATUS OF DRAWING U		HMS-790/150-30K ukePALAMURU RANGAREDDY LIS STAGE-1,PACKAGE-1 (IRRIGATION & CAD DEPT, GOVT. OF TELANGANA)		
DISTRIBUTION OF PRINTS HGE - 2 HGM - 4 FWM - 7 TEX - 1		 Hakj gsoh bystVD&yI fyfeVn HAKSJKY BHARAT HEAVY ELECTRICALS LTD. BHOPAL  FAHAK DEPT. HGE DSKM CODE 403 vu_Vky_uh dk_vksh UNTOI, DIMS, GR. 3 250 00 10104 vuglor SCALE NTS HAKJ 10-H WEDP (K.C.) 7010.0 (M/C) WAKJ WAPD uKE NAME glrk_@IGNfrnauk DATE ILA RG offsh de-sh of NO. VAR 00 10.02.21 10.02.21		
"An"AZBULE		M&kbox dBEAWING NO. 1 256 01 14701 00		
TOP BRACKET CENTRE ASSY. (FAB. & M/C)		M&kbox dBEAWING NO. 1 256 01 14701 00		
"B" d-SHT, NO. 01		"B" d-SHT, NO. 01		

DRG. NO. 1 256 01 84602



1. ALL WELDS TO GRADE II TO AA0622101 AND DP TESTED TO BP0850199.
2. ALL WELDS ARE CONTINUOUS EXCEPT WHERE OTHERWISE STATED.
3. USE ELECTRO SLAG WELDING FOR JOINING THE 2 HALVES IF ELECTRO SLAG WELDING IS NOT AVAILABLE, THAN REFER SECTION-AA FOR PREPARATION WELDING.
4. SHARP EDGES TO BE ROUNDED OFF.
5. ITEMS 1,2 & 4 TO BE FLATTENED TO 1 MM/METRE BEFORE WELDING.
6. ALL MACHINED SURFACES FINISH SHALL BE 3.2 MICRONS OR BETTER.

[illegible]

TYPE-3		CARD TYPE-1		TYPE-28		CARD TYPE-2	
ADDITIONAL INFORMATION W.O.-39008 TO L2 A 23156		उत्पादक का प्रकार या श्रेणी / प्रोडक्ट का नाम TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		HMS-795/150-28K <u>MEIL/PRANHITA -VIII LIS MOTOR</u>			
STATUS OF DRAWING U		 भारत हे वी इलेक्ट्रिकल्स लिमिटेड भारत भारी ELECTRICALS LTD. BHOPAL		कक्षा / DRN. जमा / KP अनुप्राप्त / DKC/MGSE		नाम / NAME हस्ता / SIGN दिनांक / DATE 18.01.16 18.01.16 18.01.16	
DISTRIBUTION OF PRINTS HGE - 2 HGM - 4 FWM - 7 TEX - 1				सं. क्र. / NO. विवरण / DETAIL कोड / CODE 403		नं. / NO. विवरण / DETAIL कोड / CODE 008	
		जमाना / UNTOL. दिनांक / DIMS. गोटा / GRTA 3 250 00 01404		अनुपात / SCALE स्केल / SCALE NA		मूल आकार / ORIG. आकार / SIZE KG. / KG. NA	
विभाग / DEPT.		जनरल, लार्ज वी श्रेणी UNTOLO. DIMS. GR. कोड / CODE 403		 अनुपात / SCALE स्केल / SCALE NA		मूल आकार / ORIG. आकार / SIZE KG. / KG. NA	
डीप्ट / TITLE		DETAILS OF TOP BRACKET CENTRE		इंडिंग ड्रॉ / DRAWING NO. 1 256 01 84602		नं. / NO. विवरण / DETAIL कोड / CODE 008	
				मुद्रित ड्रॉ / SH.T. NO. 01		प्रतीकों की संख्या / NO. OF SHT. 01	

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

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PAWAR

INVENTORY NO.

SIGN AND DATE

REF. DRG. NO.

FIRST ANGLE PROJECTION

ALL DIMENSIONS ARE IN mm

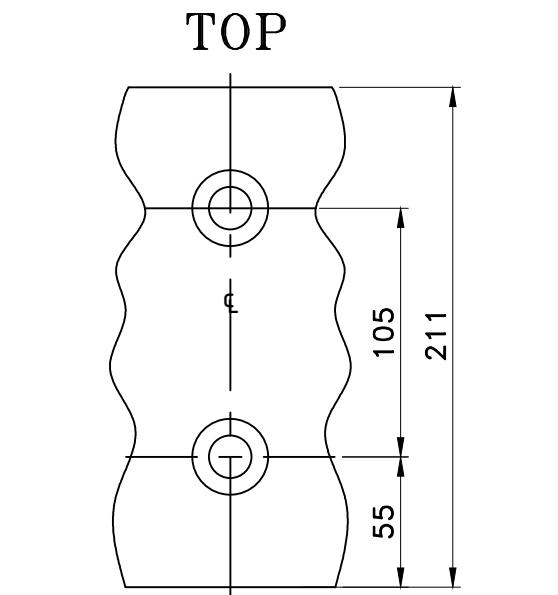
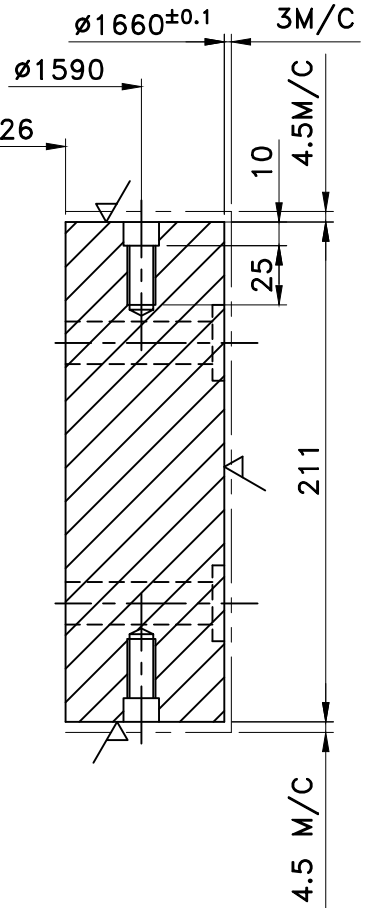
DRG. NO. 2 256 01 84603

ELECTRO SLAG
WELDING

SEE DETAIL-Y

16-PAIRS OF HOLES (TOTAL-32) DRILL $\phi 18$
AND SPOT FACE $\phi 32$ SPACED AS SHOWN
FOR PAD STOP

32-PAIRS OF HOLES (TOTAL-64) C' BORE $\phi 15$ &
DRILL & TAP M12 TO DEPTH AS SHOWN 16 PAIRS ON
TOP SURFACE & 16 PAIRS ON BOTTOM SURFACE AS
SHOWN FOR KEEP PLATE FIXING (SEE SECTION-BB)



SECTION-BB

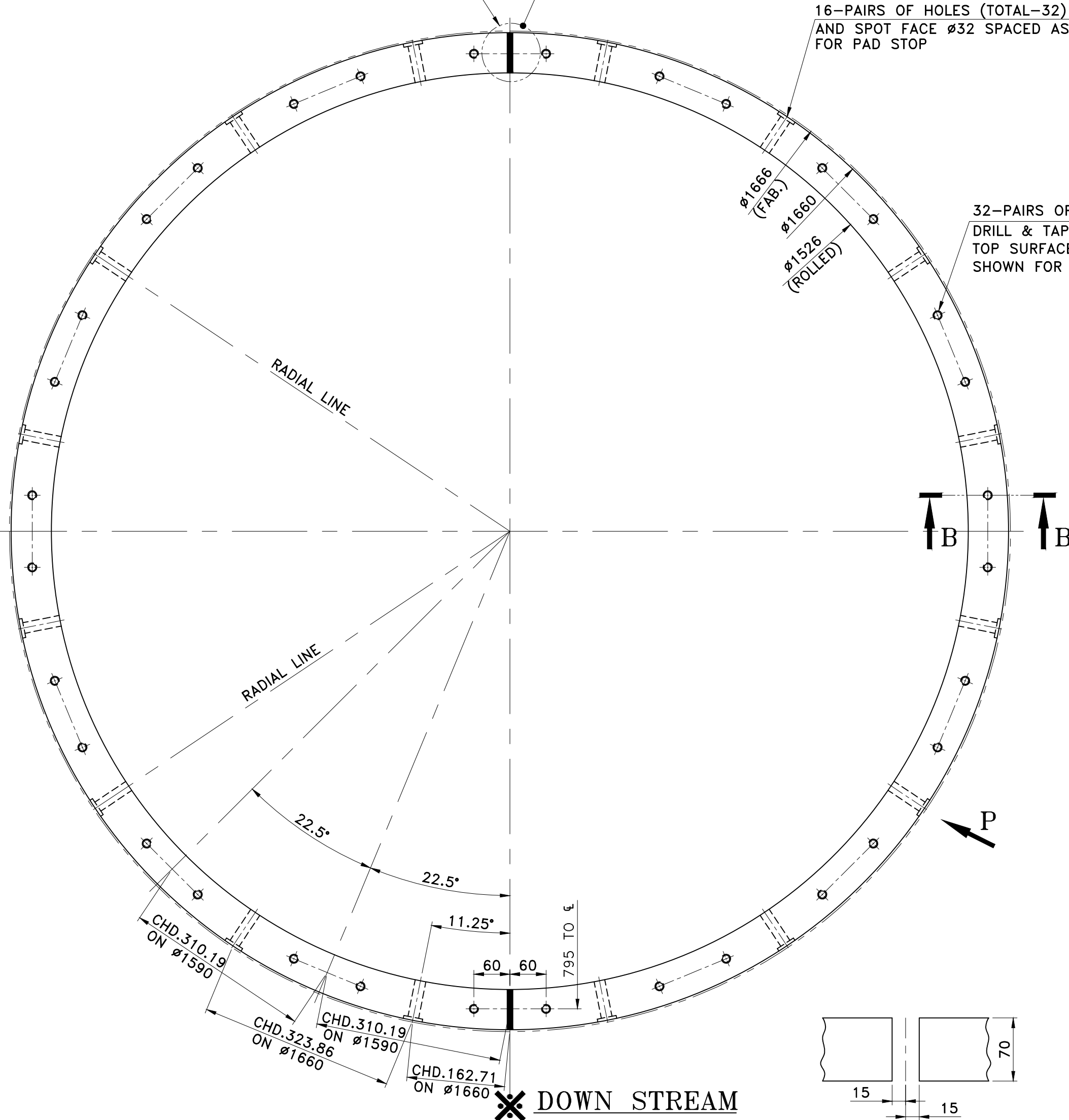
VIEW AS ARROW-P

TOOL LIST		
IT.	TOOL NO.	DESCRIPTION
01.	1598512	SEGMENTAL DRILL JIG FOR 32 PAIRS OF HOLES (TOTAL 64 HOLES) M12 ON TOP & BOTTOM FACE AND 16 PAIRS OF HOLES (TOTAL 32 HOLES) $\phi 18$ SIDE RADIAL HOLES

TECHNICAL REQUIREMENTS:-

- ALL WELDS TO GRADE II TO AA0622101.
- ALL WELDS ARE TO BE D.P. TESTED TO BP0850199.
- PLATE FOR IT.1 TO BE ULTRASONICALLY TESTED TO AA0850120. BEFORE CUTTING.
- SURFACE FINISH OF MACHINED SURFACES SHALL BE 3.2 MICRONS OR BETTER.

			SEE TR.-3			001			SUPPORT RING 70TK.x220x5013.98LG. S.S.S.Q. PLATE						AA1011819244 AA10119			NA NA		606.14(FAB.)												
59	64	65	75	78 79	25 27	29	58	59	60	77	29	31	34	45	54	68	77	UNIT WT.		ZONE												
VAR00			REMARKS			VAR. NO.			ITEM NO.			DESCRIPTION			STD			DRAWING NO.			UNIT		QTY.									
28 → CARD TYPE-3											28 → CARD TYPE-1											28 → CARD TYPE-2										
ADDITIONAL INFORMATION W.O.-39008 TO 12 A 23156						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																				
STATUS OF DRAWING U																																
DISTRIBUTION OF PRINTS HGE - 2 TEX - 1 HGM - 2 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						कन्या DRN. जीवा CKD. स्वीकृत APPD.		नाम/NAME हस्ता/SIGN. दिनांक/DATE		वे.रि. की संख्या NO. OF VAR.																
												KAMAL		18.01.16		00																
												KP		18.01.16																		
												DKC/MGS		18.01.16																		
विभाग DEPT:HGE कोड CODE 403						अन.टोल.नाप की श्रेणी UNTOL. DIMS. GR.						उत्पात SCALE		भार (कि.ग्रा.) WEIGHT (K.G.)		उसे.ड्राईंग का संदर्भ REF. TO ASSY. DRG.		मद क. ITEM NO.		मद संख्या NO. OF ITEM												
						32500001404						NTS		548.9M/C		1 256 01 84601		005		001												
शीर्षक/TITLE						TOP GUIDE BEARING SUPPORT RING						ड्राईंग क./ DRAWING NO.		2 256 01 84603		पुन. REV.																
														01		01																
														पुन. REV.		पुन. REV.																
पृष्ठ क./SHT. NO.01						पृष्ठों की संख्या/NO. OF SHT.01																										



DETAIL-Y

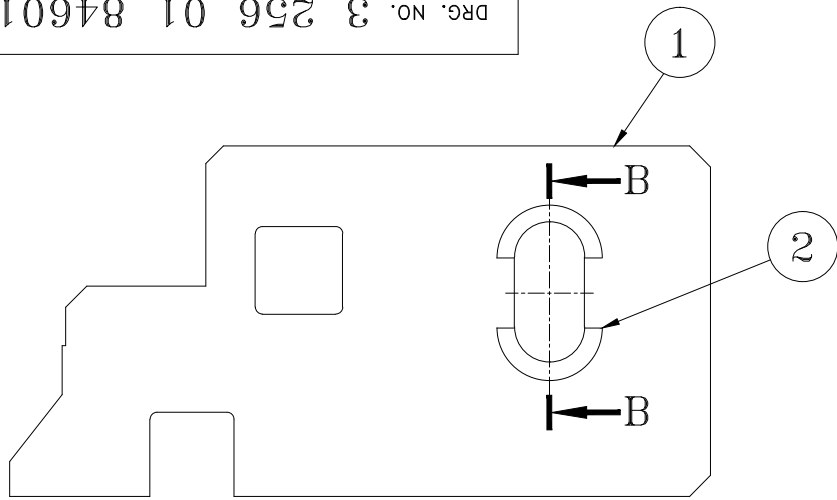
DOWN STREAM
1
(MADE IN TWO HALVES)
(APPROX DEV. LENGTH 5014 MM.)

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED			CHECKED
		APPROVED			APPROVED	01	9.9.16	APPROVED
								KP <i>PO. DE</i> DKC <i>STAFF</i>
								TOOL LIST ADDED AS PER TCM 1074 DT. 25.08.16

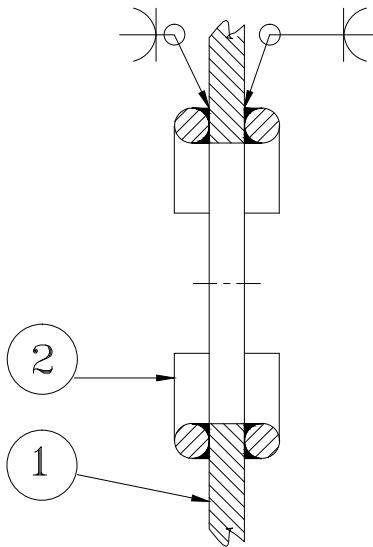
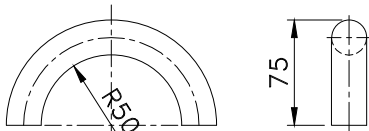
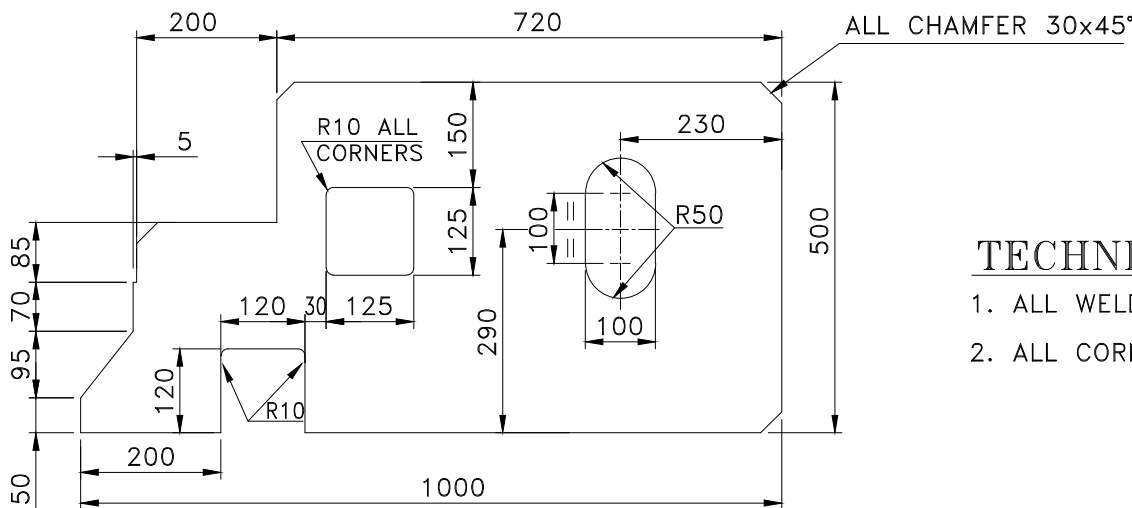
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3 256 01 84601



ASSY.



SECTION-BB
(ENLARGED)

TECHNICAL REQUIREMENTS:-

1. ALL WELDS TO GRADE III TO AA0622101.
2. ALL CORNERS TO BE ROUNDED OFF.

004		002	SLING PROTECTOR Ø25x 196.35 APP.DEV.LG. S.S.S.Q.BAR	1			AA1010208128 AA10108	NA NO	0.76	
001		001	RIB 25TK S.S.S.Q. PLATE	1			AA1011808153 AA10108	NA NO	74.5	
59 QTY VAR00	64	65	REMARKS	75	78 79	25 27	DESCRIPTION	58	59 60	77
29 IT.ND.	32	33	46	54	55	56	58	UNIT WT.	65	72
VAR.	MATL. CODE	MATL. SPCN.	UNIT	QTY.						

28 → CARD TYPE-3

28 → CARD TYPE-1

28 → CARD TYPE-2

ADDITIONAL INFORMATION
W.O.39008 TO 12 A 23156

STATUS OF DRAWING 'U'

DISTRIBUTION OF PRINTS

HGE-2 HGM-4
FWM-7 TEX-1

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

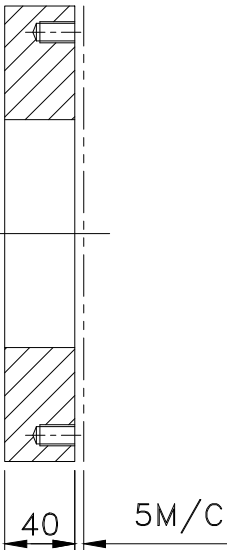
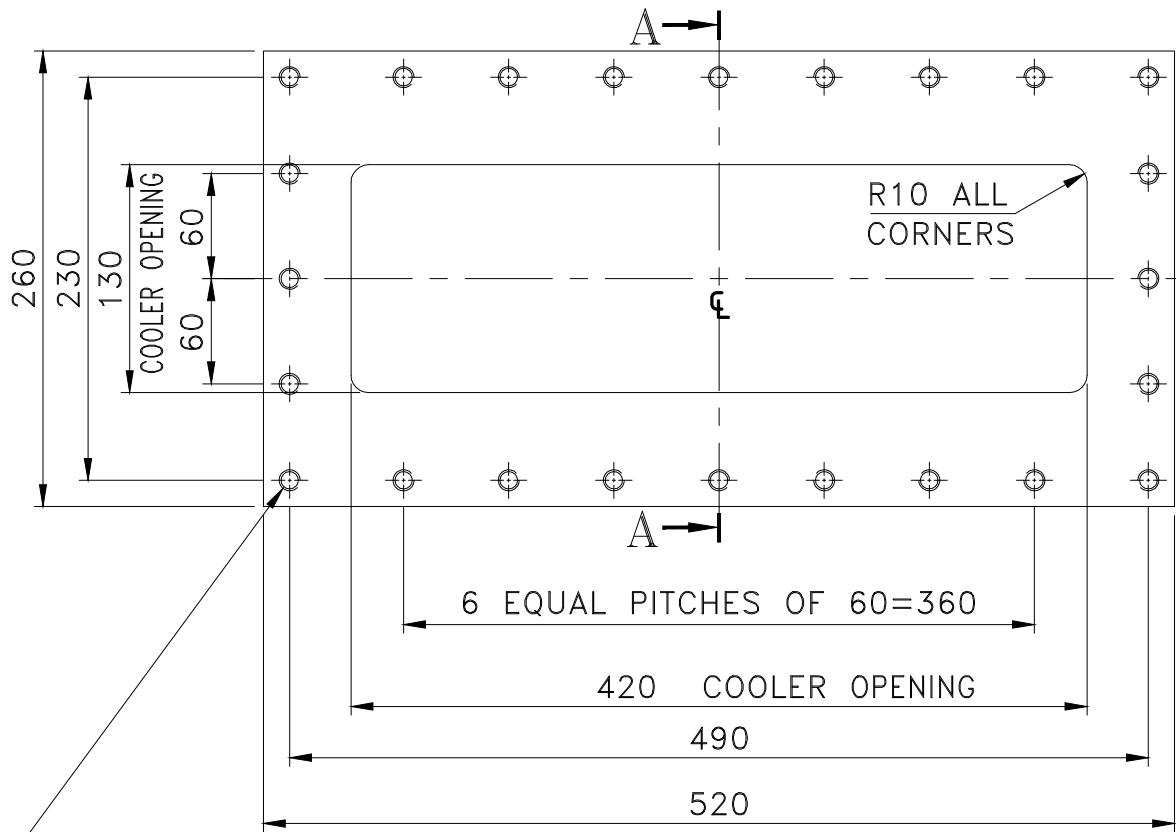
खनपा DRN	नाम/ NAME	हस्ता/ SIGN	दिनांक/ DATE	वे रि. की संख्या NO. OF VAR
जे.का. CKD	KP	Pg. 1/1	18.01.16	
अनुमोदित APPD	DKC/MGS	डि.के.सी. मे.जी.	18.01.16	00

विभाग DEPT	HGE	अन. टोल. नाप की श्रेणी UNTO L.DIMS. GR.	कोड CODE	403	32500001404	अनुपात SCALE	NTS	भार. कि.ग्रा. WEIGHT (K.G.)	77.54	उसे. ड्राईंग का संदर्भ REF. TO ASSY. DRG.	1 256 01 84601	मद. क. ITEM NO.	010	मद. संख्या NO. OF ITEM	002
शीर्षक/ TITLE										आरेख क्र./ DRAWING NO.					पुन./REV
RIB ASSEMBLY										3 256 01 84601					00
										पृष्ठ क्र./SHT. No.		01		पृष्ठों की संख्या/ NO. OF SHT.	
														01	

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3 256 01 84603



SECTION-AA

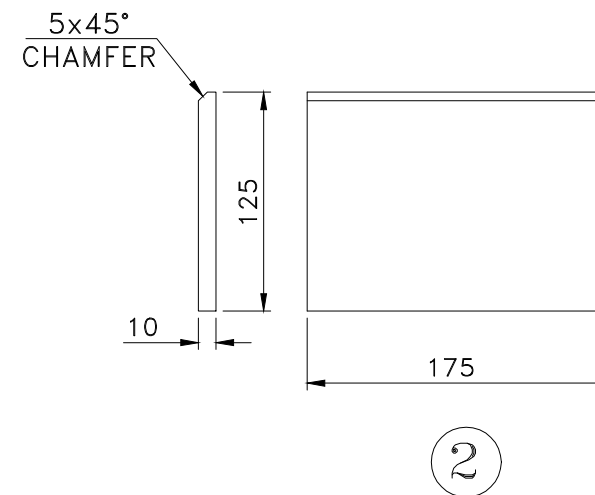
TECHNICAL REQUIREMENTS:-

1. MACHINED SURFACE FINISH SHALL BE 3.2 MICRONS OR BETTER.
2. REMOVE ALL SHARP EDGES & CORNERS.

24 HOLES DRILL AND TAP M12x20 MARK OFF FROM CDE COOLER TEMPLATE NO. 1420731
HOLES MUST NOT BREAK THROUGH

				001		COOLER PLATE 45TK.x260x520LG. S.S.W.Q.PLATE				AA1011819201		NA		NA		28.47																							
59		64		65		75		78 79		25 27		29		58		59		60		77		29 31 IT.NO.		34		MATL. CODE		45											
VAR00						REMARKS		VAR. NO.		ITEM NO.		DESCRIPTION		STD		DRAWING NO.						32 33 VAR.		46		MATL. SPCN.		54		C		UNIT		68		QTY.		ZONE	
28 → CARD TYPE-3										28 → CARD TYPE-1										28 → CARD TYPE-2																			
										ADDITIONAL INFORMATION W.O.-39008 TO 12 A 23156										उत्पाद का प्रकार या ग्राहक/परियोजना का नाम TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT																			
										STATUS OF DRAWING U										HMS-795/150-28K MEIL/PRANHITA -VIII LIS MOTOR																			
										DISTRIBUTION OF PRINTS										भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल BHARAT HEAVY ELECTRICALS LTD. BHOPAL																			
										HGE - 2 TEX - 1 HGM - 2 FWM - 1										बनया DRN जेंचा CKD अनुमोदित APPD																			
										REV. DATE ALTERED CHECKED APPROVED										विभाग DEPT/HGE कोड CODE शीर्षक/ TITLE																			
										REV. DATE ALTERED CHECKED APPROVED										अन. टोल. नाप की श्रेणी UNTOL. DIMS. GR. अनुपात SCALE NTS भार. कि.ग्रा. WEIGHT(K.G.) 24.9 M/C																			
																				असे. ड्राईंग का संदर्भ REF. TO ASSY. DRG. 1 256 01 84601 मद क. ITEM NO. 007																			
																				मद.संख्या NO. OF ITEM 001																			
																				आरेख क्र./ DRAWING NO. 3 256 01 84603																			
																				पृष्ठ क्र./SHT. No. 01																			
																				पृष्ठों की संख्या/ NO. OF SHT. 01																			

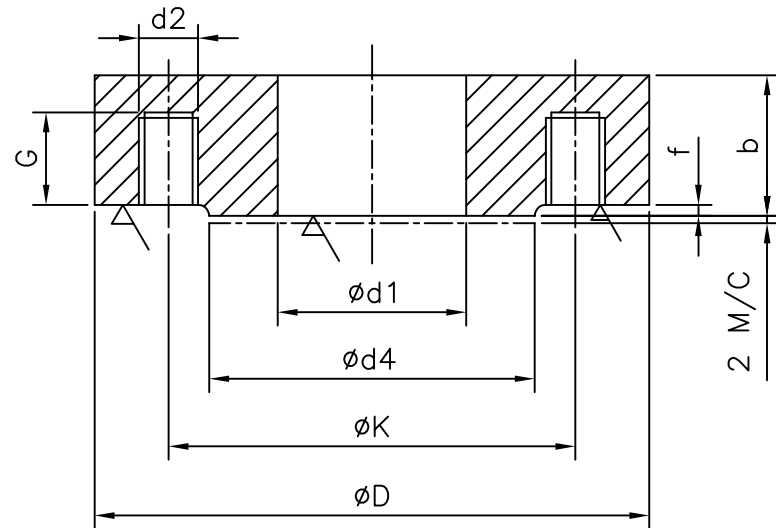
(ALL DIMENSIONS ARE IN mm)



1. ALL WELDS TO CLASS III TO AA0622101.
2. REMOVE ALL SHARP EDGES AND CORNERS.

A3 SIZE

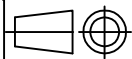
DRG. NO. 3 299 88 01008



ITEM NO.	NOM. BORE	PIPE O/D	FLANGE			RAISED FACE		TAPPING			PLATE SIZE TK.	DEPTH OF HOLES G
			d1	D	b	d4	f	NO	d2	K		
001	25	33.7	36	115	30	68	2	4	M12	85	32	20
002	32	42.4	45	140	38	78	2	4	M16	100	40	25
003	40	48.3	51	150	38	88	3	4	M16	110	40	25
004	50	60.3	63	165	38	102	3	4	M16	125	40	25
005	65	76.1	78	185	38	122	3	4	M16	145	40	25
006	80	88.9	91	200	38	138	3	8	M16	160	40	25
007	100	114.3	116	220	38	158	3	8	M16	180	40	25
008	15	22	24	95	30	45	2	4	M12	65	32	20
009	200	220	221	340	43	268	3	12	M20	295	45	30

			009	PIPE FLANGE 200 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	16.40						
			008	PIPE FLANGE 15 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	1.31						
			007	PIPE FLANGE 100 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	7.43						
			006	PIPE FLANGE 80 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	6.72						
			005	PIPE FLANGE 65 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	6.07						
	BP9023005619		004	PIPE FLANGE 50 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	4.97						
			003	PIPE FLANGE 40 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	4.33						
			002	PIPE FLANGE 32 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	3.79						
	BP9023005600		001	PIPE FLANGE 25 N/B S.S.S.Q PLATE	1				AA10108	NA	NA	2.02						
59	64	65	75	78 79	25 27	29	58	59	60	77	29 31	34	45	55 A	56 57	58	65	72
VAR00		REMARKS		VAR. NO.	ITEM NO.	DESCRIPTION		STD	DRAWING NO.		IT.NO.	MATL. CODE		C	UNIT	UNIT WT.		QTY.
											32 33	46	54					
											VAR.	MATL. SPCN.						

28 → CARD TYPE-2

REF.	SIGN. & DATE				ADDITIONAL INFORMATION										STANDARD DRAWING									
					NA					mRikn dk i-dkj ;k xk-gd@ifj;kstuk dk uke HYDRO GENERATOR					REVISION TO BE APPROVED BY STANDARD GROUP									
					STATUS OF DRAWING S					NAME OF CUSTOMER/PROJECT														
DATE		ALTERED		REV.	DATE		ALTERED — MKS		DISTRIBUTION OF PRINTS HGE — 1 TEX — 1 PLM — 4 FBM — 7					 HAKjr gsoh bysfDV&dYl fyfeVslM HAKsiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL		uke NAME		gLrk SIGN.		fnaukd DATE		osfj_ dh		
CHECKED		CHECKED — JSY			H. ATTRI		Sd/—									3.4.80		Ia[k NO. OF						
APPROVED		APPROVED — KNS			S.K.SHRIVASTAV		Sd/—									3.4.80		VAR.						
INVENTORY NO.	REV.	DATE	ALTERED	MANDWADE	REV.	DATE	ALTERED	RAMMANOHAR	REV.	DATE	ALTERED	HGE	vu_ Vky_ uki dh Js.kh			vuqikr	HAKj fd_xk_	_vls_ M&kbZax dk lanHAZ		en d—	en Ia[k			
	03	4.3.95	CHECKED	M.K.SACHDEV	02	5.4.91	CHECKED	M.K.SACHDEV	01	9.9.87	CHECKED	M.K.SACHDEV	DEPT			UNTOL. DIMS. GR.	SCALE	WEIGHT (K.G.)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF		
	APPROVED		A.GURU		APPROVED		A.GURU		APPROVED		A.GURU		CODE			3-250-00-01404	1:2	NA	NA		NA	009		
TK.OF FLANGE, PLATE SIZE & WTS. OF ITS. 1 TO 8 MODIFIED. COLOUM FOR HOLE DEPTH & IT.9 ADDED.				ITEM 8 ADDED. THICKNESS & WEIGHT OF ITEM 01 TO 7 CHANGED.				DIA. d1 & PLATE TK. ADDED. DRG. RETRACED.				PIPE FLANGE (TAPPED)				DRAWING NO. 3 299 88 01008				REV. 04				
																i="B d—SHT. NO.01				i="Bkso dh Ia[k NO. OF SHT.01				

2

3

4

5

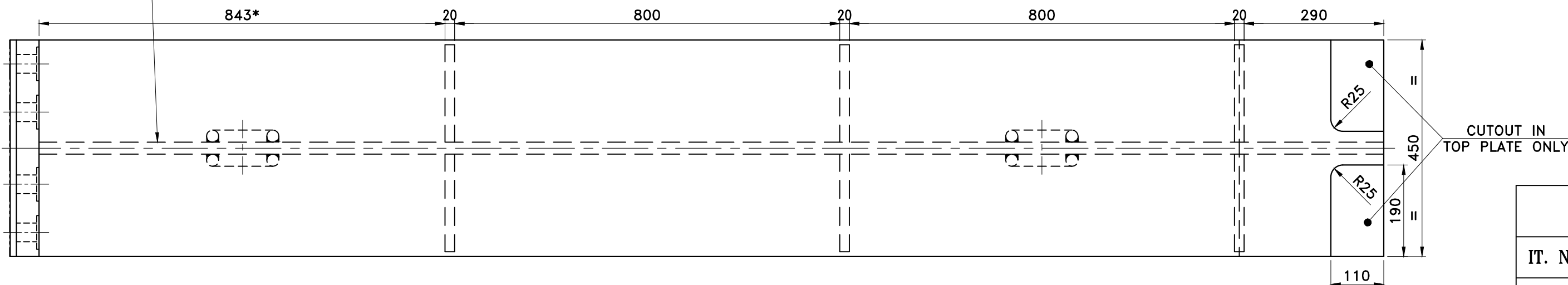
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7

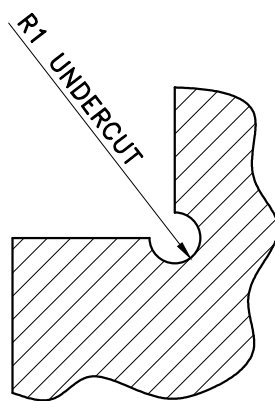
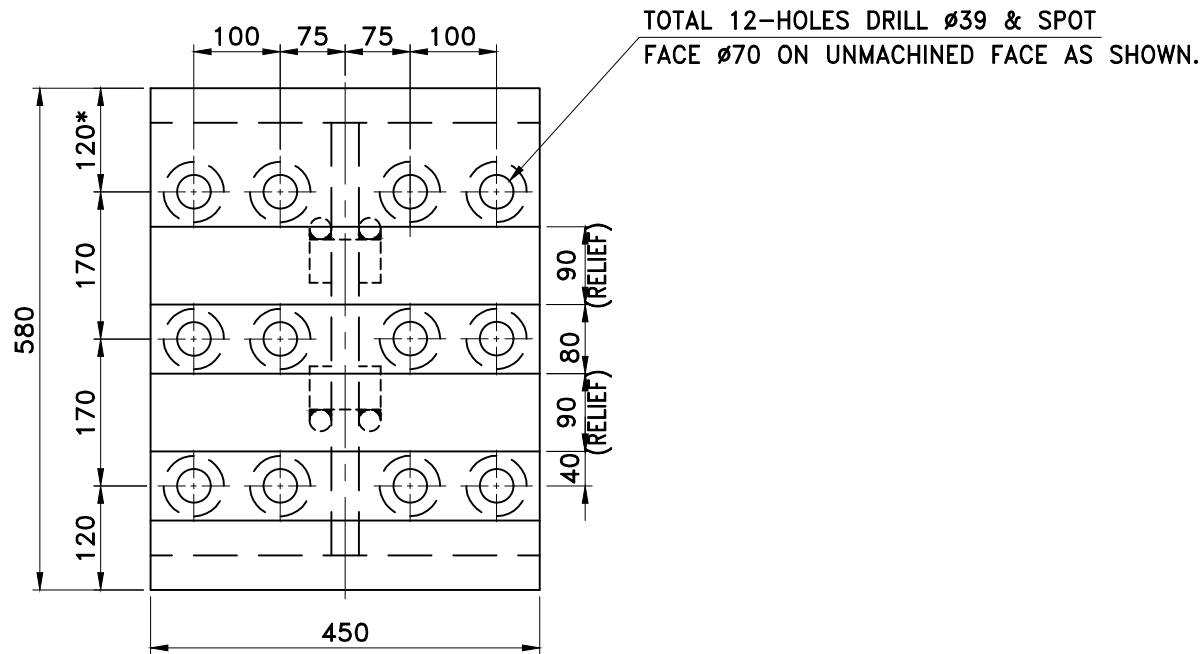
8



1. ALL WELDS TO GR III AA0622101 UNLESS OTHERWISE STATED.
2. ASSY. TO BE STRESS RELIEVED TO BP0640299,
3. FABRICATION WEIGHT OF TOP BRACKET ARM ASSY. AFTER WELDMENT 1398 KG.
4. SURFACES ARE TO BE PREPARED PRIOR TO PAINTING TO AA 0674101. AFTER PREPARATION APPLY 2 COATS OF ANTI-CORROSIVE PRIMING PAINT TO AA56101 AND 2 COATS OF HIGH QUALITY FULL GLOSSY OUTDOOR FINISHING PAINT TO AA56126 COLOUR LIGHT GREY TO SHADE ISC:631 OF IS:5
5. DIMENSIONS MARKED THUS (*) ARE FOR D.O. REFERENCE ONLY.
6. SURFACE FINISH OF MACHINED SURFACE TO BE 3.2 MICRONS OR BETTER.
7. APPLY TRP ON M/C SURFACE TO BP06900084.



TOOL LIST		
IT. NO.	TOOL NO.	DESCRIPTION
1.	1598451 (EXISTING)	DRILL JIG FOR 8 SETS OF 12 HOLES Ø39 ON JOINT FACE (COMMON WITH TOP BRACKET CENTER ASSY.)



ENLARGED DETAIL-S

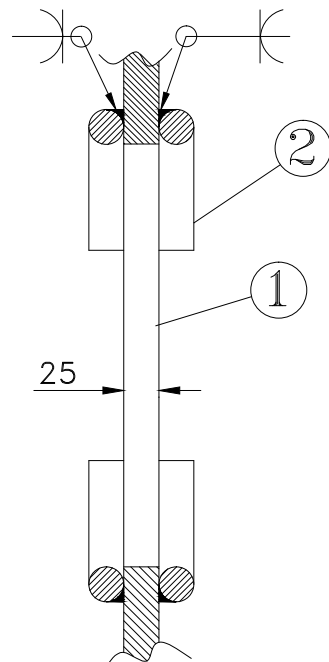
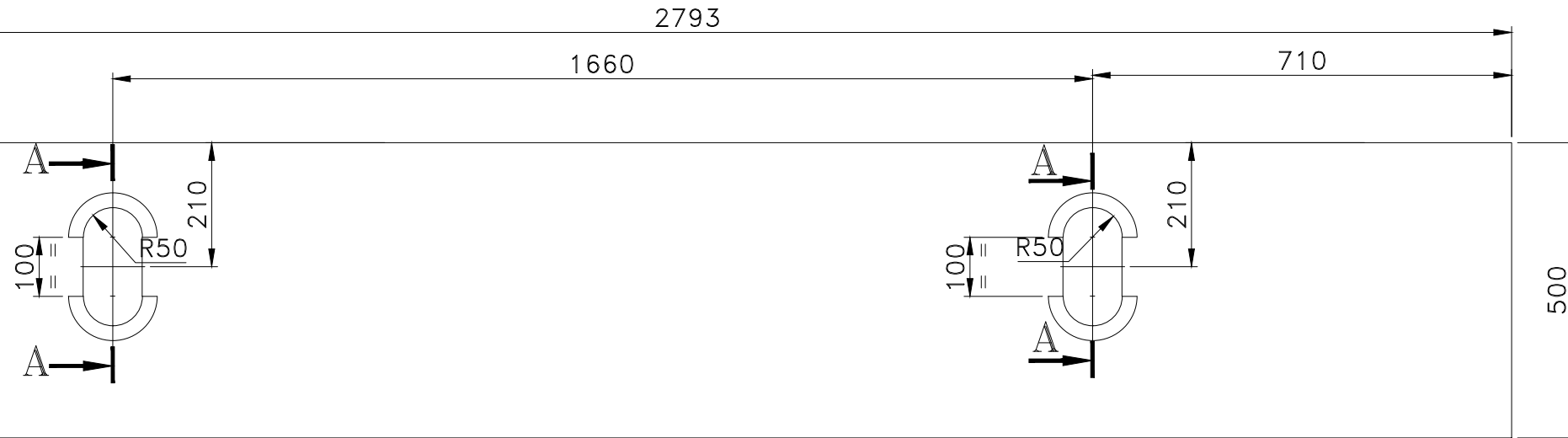
VIEW AS ARROW-X

006			005	STIFFENER	2 256 01 84602	003		NA	NO	16.5												
001			004	FLANGE 63TK.x450x580 LG. S.S.W.Q. PLATE			AA1011819236 AA10119	NA	NO	130.0												
001			003	RIB ASSY.	3 256 01 84602			NA	NO	273.70												
001			002	PAD	2 256 01 84602	002		NA	NO	52.0												
002			001	PLATE	2 256 01 84602	001		NA	NO	394.7												
59	64	65	75	78	79	25	29	58	59	60	77	29	31	34	45	55	56	57	58	65	72	
VAR.OO		REMARKS	VAR NO.	ITEM NO.	DESCRIPTION	STD.	DRAWING NO.	IT.NO.	MATL. CODE	VAR.	MATL. SPCN.	UNIT	UNIT WT.	QTY.	GS	ZONE						

ADDITIONAL INFORMATION W.O. NO. 30329T036-A-23156			mRkn dk 1-dkj ;k xk-gdMf;ksatuk dk uke			HMS-790/150-30K									
STATUS OF DRAWING U			TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			PALAMURU RANGAREDDY LIS STAGE-1,PACKAGE-1 (IRRIGATION & CAD DEPT, GOVT. OF TELANGANA)									
DISTRIBUTION OF PRINTS			भारत भार												

(ALL DIMENSIONS ARE IN mm)

CHAMFER 20x45°
AT BOTH ENDS



SECTION-AA

ASSY.

1. ALL WELDS TO GRADE III TO AA0622101.
2. ALL CORNERS TO BE ROUNDED OFF.

008		002	BAR Ø25x200LG. S.S.S.Q.PLATE			AA1010208128	NA	NA	0.8		
						AA10108	NA	NA			
001		001	RIB 25TK. S.S.S.Q.PLATE			AA1011808153	NA	NA	267.3		
						AA10108	NA	NA			
VAR00	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	STD	DRAWING NO.	C	UNIT	QTY.		ZONE
28 → CARD TYPE-3				28 → CARD TYPE-1			28 → CARD TYPE-2				

ADDITIONAL INFORMATION W.O.39008 TO 12 A 23156		उत्पाद का प्रकार या ग्राहक/परियोजना का नाम TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	
STATUS OF DRAWING U		HMS-795/150-28K MEIL/PRANHITA -VIII LIS MOTOR	
DISTRIBUTION OF PRINTS			
HGE — 3 TEX — 1 HGM — 2 FWM — 7		 भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल BHARAT HEAVY ELECTRICALS LTD. BHOPAL	
REV.	DATE	ALTERED CHECKED APPROVED	विभाग DEPTHGHE
			अन. टोल. नाप की त्रेणी UNTOL. DIMS. GR
			कोड CODE 403
		शीर्षक/TITLE	
		RIB ASSY. (TOP BRACKET ARM ASSY.)	
			आरेख क्र./DRAWING NO.
			3 256 01 84602
			पृष्ठों की संख्या/NO. OF SHT. 01

(ALL DIMENSIONS ARE IN mm)



इंडेंट संख्या / Indent no. 20210053 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/216030 सं. 00** दिनांक: **28.07.2021** संलग्न है, जिसका अनुपालन किया जाना है।
Quality plan no. **QP/QA/216030 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 / ग्राहक 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. / ग्राहक उपयुक्त विकल्प के चयन का अधिकार रखता है। दूरस्थ निरीक्षण दिशानिर्देश संलग्न हैं।
Physical Inspection / Remote inspection by BHEL / BHEL nominated inspection agency / customer 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 / customer 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	BOTTOM BRACKT CENTRE ASY.(FAB), TOP BRACKET CENTRE ASSEMBLY, BOTTOM BRACKET ARM ASSY., TOP BRACKET ARM ASSEMBLY					Q.P. NO	QP/QA/216030				
								DATE	28.07.2021				
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	1 of 3		Indent	20210053 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	Ultrasonic testing	UT of plates (40mm and above) before welding	Major	NDT	As per drg.	As per drg./ Standard	As per drg./ Standard	Test report	✓	P	W	-	Applicable for Bottom Bracket Center Assy
2.2	WPS, PQR & WPQ Qualification	Scrutinizing	Major	Record check	100%	ASME SEC IX	ASME SEC IX	Test Report	-	P	V	-	BHEL /BHEL approved agency WPS/PQR/WPQ shall be used
2.3	Marking, Cutting & Edge Preparation	i) Marking	Major	Marking check	100 %	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
		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	BOTTOM BRACKT CENTRE ASY.(FAB), TOP BRACKET CENTRE ASSEMBLY, BOTTOM BRACKET ARM ASSY., TOP BRACKET ARM ASSEMBLY					Q.P. NO	QP/QA/216030				
								DATE	28.07.2021				
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR	
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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
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2.4	Welding Operation	i) Fit up	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	✓	P	V	-	1) BHEL approved electrode shall be used during welding 2) Qualified welders by BHEL /BHEL approved agency in accordance with ASME Section IX will be deployed on the job.
		ii) DPT of root run	Major	NDT	As per drg.	As per drg./ Standard	As per drg./ Standard	Report	✓	P	V	-	Applicable for Bottom Bracket Center Assy
		iii) Visual inspection of welds	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	✓	P	V	-	
		vi) Stress relieving	Major	HT	100%	As per drg./ Standard	As per drg./ Standard	SR chart	-	-	P	V	SR in BHEL Scope.
		v) 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	Major	Visual & measurement	100%	As per drg./ Standard	As per drg./ Standard	Obs. Sheet	✓	P	W	W*	*Customer witness for bottom bracket centre Assy. and bottom bracket arm Assy.
		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		
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										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.

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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.



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

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



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

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

12. BANK GUARANTEE.

In case the bank guarantees are required to be deposited towards security deposit/performance guarantee or for any other purpose as per the terms of this tender enquiry, such bank guarantees of the requisite value in the denominated currency of the purchase order should be from one of the Indian branch of BHEL consortium banks and the bank guarantee should be in the proforma as prescribed by BHEL. The proforma of bank guarantee and the list of consortium banks are displayed at BHEL website www.bhelhwr.co.in. 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."