

TENDER ENQUIRY NO.: X/6620/2024/0003/F/1

SUB: - TERMS & CONDITIONS FOR FABRICATION OF STATOR FRAME

NIT-Notice Inviting Tender

Salient Details of Notice Inviting Tender (NIT)		
Sl. No.	Issue	Description
1.	Item details	As per Enquiry Annexure X/6620/2024/0003/F/1
2.	Issue of Tender Documents	From BHEL eProcurement website https://eprocurebhel.co.in/nicgep/app (Tender documents will be available for downloading from BHEL e-Procurement website till due date of submission)
3.	Due Date Of Offer Submission	Date: -30.05.2024 Time: 13:45 hrs https://eprocurebhel.co.in/nicgep/app Offer to be submitted in online only through e-procurement Portal. (Bidders are requested to visit website to view corrigendum/ addenda/ amendments/ extension/ modification etc. before submitting offer).
4.	Opening of Tender (Techno-Commercial Bid)	Date: -30.05.2024 Time: 14.00 Hrs Notes: This tender being an e-tender, it shall be opened online only through the E-Procurement Portal. Participating bidders may witness the Opening online only.
5.	Cost of Tender	INR 2000/- (If hard copy of tender document is required from BHEL otherwise not applicable.)
6.	EMD (Earnest Money Deposit)	0
7.	Schedule Of Pre-Bid Discussion	Not Applicable
8.	Integrity Pact & Details of Independent External Monitor (IEM)	Not Applicable
9.	Latest Updates	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL e-tender portal https://eprocurebhel.co.in/nicgep/app and not in the newspapers. Bidders to keep themselves updated with all such information

Please submit your offer only for the above requirement subject to our **GENERAL INSTRUCTIONS AND STANDARD TERMS & CONDITIONS (Version: June-2021, Rev.06)**. Please visit our site www.hwr.bhel.com for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries. All the bidders/vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for Registered Vendors.

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

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

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

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

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

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

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

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

INSTRUCTIONS TO BIDDERS FOR SUBMITTING OFFER

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

ESSENTIAL INSTRUCTIONS

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

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

1. Techno -Commercial Bid
2. Tender Fee & EMD (Earnest Money Deposit) Or Valid certificate/Document towards exemption of Tender fee and/or EMD (applicable for Micro and small Enterprises, Central / State – PSUs / Government departments, PMD vendors etc.)

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

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

E-Procurement Portal Inputs

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

Hardware and Software requirements for participating in e-tender

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

Digital Signature

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

NIC portal Helpdesk Contacts

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

0120-4001 002

0120-4200 462

0120-4001 005

0120-6277 787

International bidders are requested to prefix 91 as country code

Email Support

Address: A) For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority Technical - support-eproc@nic.in

Note

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

The Tenderers must submit their Tenders, as detailed below:

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

SUB: - TERMS & CONDITIONS FOR FABRICATION OF STATOR FRAME
WITH BHEL MATERIAL

Online offers are invited through e-procurement portal <https://eprocurebhel.co.in/nicgep/app> from suppliers for the supply of the items.

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-fabrication machining & fabrication of following items with BHEL Material as per drg., QP & other specifications.

Sl. No.	Item Description	Drg. No.	Qty.	BHEL Material Weight /Piece (Kg)	Total Weight/Drg no. (in kg.)
1	Stator Frame (EE)	0135010106500	1	21484	21484
2	Stator Frame (TE)	0135010106600	1	21563	21563
3	Stator Frame (Middle Part)	0135010106700	1	16235	16235

Remark- TOTAL LOAD FOR THE Enquiry (Approximately) = 59282 Kg.

T.R. And instructions of the drawings are to be strictly followed.
The rate (s) should be quoted in **Rupees/KG**.

- I) Instructions for ITEM Sl No. 01 **DRG. NO. 01350101065-00 (STATOR-EXCITER END)**
- Ensure gas channels are painted as per standard from inside (except weld area) before final welding with casing because of space constraint for painting at later stage.
 - Extra care to be taken while cutting slots/holes etc. On side wall & inner walls, this is crucial for seamless assembly, as aligning the horizontal and vertical axes requires these slots and holes to correspond in position on both the side and inner walls.
 - Side wall & terminal plate (which are made in parts) must be straighten after ground flushing of weld seam. Flatness to be strictly maintained as per drawing and no deviation allowed.
 - Inner wall to inner wall and inner wall to side wall distance must be equal & to be strictly maintained as per drawing throughout diameter, no deviation allowed.
 - Ensure that the centre and centrelines of the inner wall precisely align with the centre of the side wall as per drawing. This alignment is crucial for maintaining symmetry and achieving a seamless fit during assembly. No deviation allowed
 - Radius of casing must be as per drawing & the verticality of the casing must be strictly maintained within the tolerance of drawing, no deviation allowed.
 - Technical requirements (TR) is mandatory for all part items and the assembly & welding process as outlined in drawings must be strictly followed and no deviation allowed.

- h) Sub assembly of drawing no. 31350101440-00 & 31350101443-00 should be assembled and welded with inner walls before assembly of inner walls.
 - i) Use sequential welding & technological supports (in scope of vendor only) wherever required in order to avoid distortions and to meet drawing requirement.
 - j) Weld seams marked "T" are important and due care to be taken during welding of these seams as the gas tightness is to be ensured at the time of hydraulic testing, air pressure testing after machining as per standard TG40012/TG40105.
 - k) Verticality of terminal plate is to be strictly maintained as per drawing.
 - l) Vendor has to manufacture terminal plate strictly as per part drawing no.- 11350101067-00. Machining of terminal plate shown in drawing no.-01350101065-00 sheet no-3 "view T" is not in the scope of vendor.
- II) Instructions for ITEM SI No. 02 **DRG. NO. 01350101066-00 (STATOR-TURBINE END)**
- a. Ensure gas channels are painted as per standard from inside (except weld area) before final welding with casing because of space constraint for painting at later stage.
 - b. Extra care to be taken while cutting slots/holes etc. On side wall & inner Walls, this is crucial for seamless assembly, as aligning the horizontal and Vertical axes requires these slots and holes to correspond in position on both the side and inner walls.
 - c. Side wall (if made in parts) must be straighten after ground flushing of weld seam. Flatness to be strictly maintained as per drawing and no deviation allowed.
 - d. Inner wall to inner wall and inner wall to side wall distance must be equal & To be strictly maintained as per drawing throughout diameter, no deviation allowed.
 - e. Ensure that the centre and centrelines of the inner wall precisely align with the centre of the side wall as per drawing. This alignment is crucial for maintaining symmetry and achieving a seamless fit during assembly. No deviation allowed.
 - f. Radius of casing must be as per drawing & the verticality of the casing must be strictly maintained within the tolerance of drawing, no deviation allowed.
 - g. Technical requirements (TR) is mandatory for all part items and the assembly & welding process as outlined in drawings must be strictly followed and no deviation allowed.
 - h. Sub assembly of drawing no. 31350101440-00 & 31350101443-00 should be assembled and welded with inner walls before assembly of inner walls.
 - i. Use sequential welding & technological supports (in scope of vendor only) wherever required in order to avoid distortions and to meet drawing requirement.
 - j. Weld seams marked "T" are important and due care to be taken during welding of these seams as the gas tightness is to be ensured at the time of hydraulic testing, air pressure testing after machining as per standard TG40012/TG40105.
- III) Instructions for ITEM SI No. 03 **DRG. NO. 01350101067-00 (STATOR-MIDDLE PART)**
- a. Ensure gas channels are painted as per standard from inside (except weld area) before final welding with casing because of space constraint for painting at later stage
 - b. Extra care to be taken while cutting slots/holes etc. On inner walls, this is crucial for seamless assembly, as aligning the horizontal and vertical axes requires these slots and holes to correspond in position on inner walls of both side.
 - c. Inner wall to inner wall distance must be equal & as per drawing throughout diameter, no deviation allowed.
 - d. Radius of casing must be as per drawing & the verticality of the casing must be strictly maintained within the tolerance of drawing, no deviation allowed

- e. Technical requirements (TR) is mandatory for all part items and the assembly & welding process as outlined in drawings must be strictly followed and no deviation allowed.
- f. Sub assembly of drawing no. 31350101440-00 & 31350101443-00 should be assembled & welded with inner walls before assembly of inner walls.
- g. Use sequential welding & technological supports (in scope of vendor only) wherever required in order to avoid distortions and to meet drawing requirement.
- h. Weld seams marked "T" are important and due care to be taken during welding of these seams as the gas tightness is to be ensured at the time of hydraulic testing, air pressure testing after machining as per standard TG40012/TG40105.
- i. Welding of gas channels from inside and outside should be done before casing assembly & bend pipe assembly.

Common Remarks

- Final painting of the job is in BHEL scope.
- Technological supports as and when required in order to avoid any distortion to facilitate assembly/welding is in the scope of vendor.
- Technical requirements of main and part drawings must be strictly followed.
- Vendor should submit manufacturing plan to BHEL for approval before start of assembly welding.
- Prior to commencement of welding, the vendor is required to get the fit-up of assembly checked by BHEL. (Block-2)
- Customer's seal (if any on supplied material) to be transferred.
- All special tests viz. UT/RT/ Hydraulic & Kerosene etc. are to be performed as per drg. Requirements.
- Copies of the relevant certificates to be supplied to the receiving shop.
- Cleaning of parts, removal of mill scale from components prior to assembly will be in scope of vendor.
- Final assembly shall undergo cleaning to ensure that all parts are free from dents, mills, spatters.
- Aesthetic appearance shall also be ensured and inspected before delivery to BHEL.
- CHP clearance may be obtained from NTPC/LLOYD/RITES/NTPC at party's end.
- Physical Inspection by BHEL / BHEL nominated inspection agency & NTPC as per drawing and approved quality plan requirements.

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: -

Open tender is hoisted on the <https://eprocurebhel.co.in/nicgp/app> and no hard copy of document is provided by BHEL, no tender fee shall be insisted upon from the bidders.

The offer is to be submitted in **two parts** on NIC portal only on website: <https://eprocurebhel.co.in/nicgp/app>

BHEL reserves the right to reject any or all the tenders either in full or part thereof without assigning any reasons thereof.

4. DELIVERY: -

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

5. DELIVERY SCHEDULE: -

Sl. No.	Item Description	Drg. No.	Qty.	Delivery
1	Stator Frame (EE)	0135010106500	1	75 Days from last BHEL material sent to vendors work
2	Stator Frame (TE)	0135010106600	1	75 Days from last BHEL material sent to vendors work
3	Stator Frame (Middle Part)	0135010106700	1	75 Days from last BHEL material sent to vendors work

- 6. Bank Guarantee/Indemnity Bond: - 10 % Bank Guarantee and 90% Indemnity Bond for the value of materials to be given by vendor for free issue materials. Material value will be calculated on PPMIV/Challan value basis. On intimation from BHEL regarding BG & IB, the same shall be provided by the vendor (s) within 15 Days. If suitable BG and IB are not submitted to BHEL within 15 days of intimation, then the amount of days delayed beyond 15 days after intimation will be deducted from delivery days of that item and consequent PO amendment will be issued.**

For Example: If intimation for requirement of BG & IB of an item of a PO is given to vendor on 01.06.2024 from BHEL, then vendor should mandatorily provide required BG and IB by 15.06.2024. In case, vendor provides the same by 30.06.2024, then the difference of 15 days (between 15.06.2024 & 30.06.2024) will be deducted from delivery days of that item and consequent PO amendment will be issued.

7. 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/LLOYD/NPC etc. 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.

8. GUARANTEE CERTIFICATE: -

The vendor shall warrant that the supplied fabricated assemblies/items 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.

9. PAYMENT TERMS: -

- 9.1 90% after acceptance & final clearance of SRIV. 10% after FTS and final account of material.
- 9.2 No packing and forwarding charges will be paid extra.
- 9.3 In case of rejection, total cost of material will be recovered in case of BHEL Material and no labour cost will be paid.
- 9.4 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.
- 9.5 Detailed terms at clause 10.0 of GISTC Rev. 06, June 2021.

10. 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.

11. GST: -

As per clause 11.0 of GISTC (attached). At present GST rate applicable for this enquiry will be 12%. However, it will be applicable as per Govt. guidelines/circulars.

12. QUALITY REQUIREMENTS: -

Physical Inspection by BHEL/BHEL nominated inspection agency and NTPC as per drawing and approved quality plan.

Vendor to submit QP for BHEL & NTPC approval. BHEL & NTPC approved QP to be followed by the subcontractor in the event of PO placement. Sample QP QP/QA/216457 rev. 00 dated: 30.04.2024 is attached for reference.

13. 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.”

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

14. EVALUATION OF BIDS:

Vendors should submit filled in MAIN CONTRACTOR’S PROPOSAL CUM EVALUATION REPORT & SUB-VENDOR QUESTIONNAIRE for NTPC/Customer approval (attached) with this enquiry. **Their price bid will be opened only when the vendor is approved by BHEL/BHEL Customer (refer attached annexure with this enquiry).**

All vendors will be assessed on total cost to BHEL basis that includes freight, taxes, ITC etc. Item wise evaluation will be applicable for this enquiry.

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.

15. TRANSPORTATION: -

Transportation of PPMIV material (raw material) will be in scope of BHEL and the freight will be borne by BHEL. However, the same will be loaded into the cost quoted by vendor in RA sheet. Vendor to deliver fabricated/machined/formed items to BHEL Haridwar at their own cost.

16. 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/any other similar category. 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 may be given on the finished weight.

17. RECTIFICATION: -

Any defect (noticed at Shop) arising out of the fabrication/machining/forming 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.

18. RISK PURCHASE: -

In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract or under General Law

Action against Bidders / vendor / supplier / contractor in case of default:

In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.

Suspension of Business Dealings could be in the form of "Hold" or "Banning" a supplier/ contractor or a bidder and shall be as per "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" available at BHEL's website "<https://www.bhel.com/guidelines-suspension-business-dealings-suppliers-contractors>."

19. DISTRIBUTION OF LOADS: -

Enquiry has been issued with following terms & conditions :

Vendor has to quote the rate **in Rs. Per Kg. Basis.**

Item will be placed on L1 vendor. Evaluation will be item wise.

20. GENERAL INSTRUCTIONS: -

20.1 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.

20.2 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.

20.2.1 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.

20.3 Please refer general instructions and standard terms & conditions (GISTC) for bidding against tender enquiry (version June-2021, Rev:06) the bidder/vendor must ensure compliance of these GISTC (version June-2021, Rev:06). Please refer <https://hwr.bhel.com>.

20.4 MSE suppliers are exempted for submission of EMD & Tender Fee.

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

20.6 Documents submitted with the offer/bid by the bidder should be signed and stamped in each page by authorized representative of the bidder.

20.6.1 PQR required documents 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 may be ignored.

20.7 Vendor Contract clause regarding GST ITC and provision for E-invoices:

(i) E-invoicing under GST is being implemented w.e.f. 01.04.2022 for all the taxable persons having turnover more than Rs. 10 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.

20.8 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.

20.9 The bidders against open tender will necessarily have to obtain class – III DSC (Digital signature). Procedure for application is available on hwr.bhel.com.

20.10 Following MSE conditions shall be followed: -
UDYAM Certificate.

Detailed MSE conditions is at clause no. 23.0 of GISTC Rev. 06, June 2021.

* Govt. guidelines will supersede all clauses of this tender for MSE benefits to vendor(s).

MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of UDYAM Certificate.

Detailed MSE conditions is at clause no. 23.0 of GISTC Rev. 06, June 2021. * Govt. guidelines will supersede all clauses of this tender for MSE benefits to vendor(s).

20.11 BHEL may load maximum penalty under LD Clause, to the extent the same is not agreed by the vendor, for the purpose of comparative statement. Where deliveries quoted by the vendor are not suiting, BHEL may also ignore the offer of the vendor.

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

22. "A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder who found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:

- a) they have controlling partner (s) in common; or
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
- c) they have the same legal representative/agent for purposes of this bid; or
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or
- e) Bidder participates in more than one bid in this bidding process.

Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid; or

- f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:

1. The principal manufacturer directly or through one Indian agent on his behalf; and
 2. Indian/foreign agent on behalf of only one principal,
- or

- g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or

- h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business

ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "

- **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. Time period for technical/commercial clarification is 3 days.**
- Amendments/Corrigendum, if any, will be hosted on designated web site/ GePNIC Portal 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.
- the Tender Documents, Drawings, P.O copy etc. shall be sent by e-mails and shall not be sent in hard copies. Vendors to kindly note that the details sent by e-mail shall be considered for delivery against the finalized contract(s)/ P. O's placed.
- ****OFFERS SHALL BE ADMITTED THROUGH GePNIC PORTAL <https://eprocarebhel.co.in/nicgep/app> ONLY**

Annexure - A

SUB: - TERMS & CONDITIONS FOR FABRICATION OF STATOR FRAME

WITH BHEL MATERIAL

OpenTender Enquiry No.: X/6620/2024/0003/F/1

Sl. No.	Item Description/Drg No.	MATERIAL BY	Qty	Weight in Kg / piece	Rates Rs./Kg Quoted/Not Quoted (Tick the correct option)
1	Stator Frame (EE) 0135010106500	BHEL	1	21484	Quoted/ Not Quoted
2	Stator Frame (TE) 0135010106600	BHEL	1	21563	Quoted/ Not Quoted
3	Stator Frame (Middle Part) 0135010106700	BHEL	1	16235	Quoted/ Not Quoted

Authorized Signature:

(with date & seal of company)

Name of Supplier: -

Annexure - B

Make in India Certificate

Certificate In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017 & P-45021/2/2017-PP (BE-II) dated 28.05.2018, we hereby certify that we M/s

_____ (supplier name) are local supplier meeting the requirement of minimum local content (50%) as defined in above orders for the material against Enquiry No. ___

X/6620/2024/0003/F/1 Details of location at which local value addition will be made is as follows:

C o m p a n y n a m e t o b e f i l l e d

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.

Authorised Signature:

(with date & seal of company)

Name of Supplier: -

TERMS AND CONDITIONS FOR Enquiry No.X/6620/2024/0003/F/1

SL.	Terms & Condition (Stator Frame)	VENDOR'S ACCEPTANCE/ REMARKS
1	Scope of Work: - Complete PRE-FAB. M/C & FAB. ONLY is to be carried out by the vendor as per Drawing/Standard, QP and Technical requirements (as per clause 1 of terms & conditions).	
2	Quotation is valid for a minimum period of 90 days from date of opening of enquiry. (as per clause no. 2.0 of Terms and Conditions)	
3	Submission of offers (as per clause no. 3.0 of Terms and Conditions)	
4	Quoted rates are on F.O.R. sub-contract store, HEEP, Haridwar basis.(as per clause no. 4.0 of Terms and Conditions)	
5	Delivery schedule 75 days as per clause 5.0 of T& C of enquiry.	
6	Bank Guarantee/Indemnity Bond: 10% BG & 90% Indemnity bond (as per clause 6.0 of T& C of enquiry)	
7	Inspection shall be done (as per clause no. 7.0 of Terms and Conditions of Enquiry)	
8	Guarantee Certificate shall be valid for 18 months. (as per clause no. 8.0 of Terms and Conditions of Enquiry)	
9	Payment 90% after acceptance & final clearance of SRIV. 10% after FTS and final account of material (as per clause no. 9.0 of Terms and Conditions of Enquiry).	
10	LD clause is applicable@0.5% per week or part thereof with a maximum limit of 10% of the delayed portion of the PO (as per clause no. 10.0 of Terms and Conditions of Enquiry).	
11	GST shall be applicable against documentary proof. Input Tax Credit shall be applicable and BHEL can claim benefit (as per clause no. 11.0 of Terms and Conditions of Enquiry).	
12	Quality Requirements (as per clause no. 12.0 of Terms and Conditions of Enquiry).	
13	We accept Reverse Auction(RA) clause as per standard policy of BHEL (as per clause no. 13.0 of Terms and Conditions of Enquiry).	
14	Evaluation of bids (as per clause no. 14.0 of Terms and Conditions of Enquiry).	
15	Transportation:Confirm acceptance of clause 15.0 of T & C. Manufactured items shall be despatched by BHEL approved transporter only and Insurance shall be borne by BHEL.	
16	Scrap : Confirm acceptance of Clause 16.0 of T & C of Enq.	
17	Rectification:Confirm acceptance of Clause 17.0 of T & C of Enq.	
18	We accept Risk Purchase clause 18.0 of T&C as per standard policy of BHEL.	
19	Distribution of Load: N/A, Accept the Clause 19 of T & C	
20	We have read clause no. 20 of terms and conditions of Enquiry and confirm to abide the same.(Clause 20.1 -20.11)	
21	Breach of contract: Confirm acceptance of Clause 21 of T & C of Enq.	
22	Conflict of Interest:Confirm acceptance of Clause 22 of T & C of Enq.	
23	Duly Filled Annexure A (Unpriced- Quoted / Not Quoted)	
24	We have submitted Make in India certificate (duly filled and signed as per Annexure-B).	
25	We accept all terms and conditions of GISTC Rev. 06.	
26	Rates have been quoted in indian Rupees on per/Kg. basis.	
27	PQR : as per clause 20.6.1 of T&C of enquiry.(duly filled, signed and stamped PQR and relevant documents)	

I have read and agreed all the terms and conditions of enquiry in detail and agree.

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 (MP, EE, TE OF STATOR FRAME)


Item :All items of indent 20240003			
01.00	Pre-Qualification Requirement	Required	Offered
01.01	Experience: Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of atleast 1 no. Fabricated Assembly in last 7 years from the date of enquiry as per following details: (i) Dimensions of job: LXBXH = 4mtX4mtX3.5mt and above. (ii) Weight: 18 Tons and above	Vendor to Comply & submit suitable evidence including technical specifications, drawings etc.	
01.02	Facility: i) Lifting facility and capacity at vendor works should EOT crane 25 Tons and above. Sufficient Hook height to suit job requirements. ii) Vendor must have levelled bed plate having size : Length= 5500mm, Breadth=5500mm and above to fabricate the job (Either machined bed plate or bed plate constructed by steel plates is allowed but concrete floor not allowed). (iii) Vendor must have suitable WPS/PQR and qualified welders for welding approved by third party and submit documentary evidence with offer. (iv) Vendor must have rolling bending facility of plate thickness 25 mm and above at width of 2500 mm and above (v) Vendor must have cutting facility to cut plate of thickness 100 mm and above	Vendor to Comply & submit suitable evidence including technical specifications, technical brochure, photographs etc. of the facilities.	
01.03	Vendor to furnish certificate or documentary evidence against clause 01.01 from the customer / company or end user duly confirming that fabricated assembly was supplied and used for Hydro Pump or turbine/power plant/capital goods/infrastructure application OR Vendor to submit documentary evidence as per clause 1.04.	Vendor to Comply & submit suitable documents	
01.04	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 fabricated assembly.	Vendor to Comply & submit suitable documents	
01.05	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	
01.06	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	
	PQR is not restrictive		


Handwritten signatures and dates:
 08/04/2024
 08/09/24
 08/04/2024
 Deshwal
 (Santosh Gond)
 MGC/WT
 21/04/24
 02-04-2024
 BS Ann

02.00	TECHNICAL REQUIREMENT			
02.01	<p>(i) Vendor must have Suitable machining facility to perform pre fabrication Machining operation for item no: 26,28 & 29 of CBOM 0135010106700 i.e. STATOR FRAME (Middle Part), drg No 11350101072-00 , 11350101073- 00,11350101123-00 respectively,item no: 11 ,26 & 27 of CBOM - 01350101065 00 i.e.STATOR FRAME (Exciter End), drg No 11350101065-00 , 11350101068- 00,11350101069-00 respectively, item no: 11 ,26,28 & 29 of CBOM 01350101066 00 i.e. STATOR FRAME (Turbine End), drg No 11350101074-00 , 11350101075- 00,11350101073-00 ,11350101116-00 respectively.</p> <p>(ii) Vendor must have plate bending facility to form gas channels,items no: 33 & 35 of CBOM 0135010106700 i.e. STATOR FRAME (Middle Part), drg No 31350101455-00 & 31350101454-00 , items no: 33 & 35 of CBOM - 01350101065 00 i.e.STATOR FRAME (Exciter End) , drg No 31350101446-00 & 31350101447-00 , items no: 33 of CBOM 01350101066 00 i.e. STATOR FRAME (Turbine End), drg No 31350101462-00</p> <p>If vendor does not have above required facility mentioned at point no.2.01 (i) & (ii) then vendor may get it done from its sub-vendor provided that the vendor must send details of facilities of its sub-vendor at the time of offer submission along with the consent letter of its sub-vendor for the same.</p>	Vendor to Comply & submit suitable documents		


 08/09/24
 Deependra Chauhan.
 (Engineer / WTK)




 08/09/2024
 [Kani Deshwal
 Manager (WTK)]


 27/4/24
 [Santosh Gaud
 Mgr / WTK]


 07-07-2024
 (BS) Rom
 AGT-WT

Manufacturer Name and Address		MANUFACTURING QUALITY PLAN								APPLICABILITIES TO			
BHEL Haridwar approved vendors/sub-contractors only	ITEM/ EQUIPM- ENTS	STATOR FRAME (EE, TE & MIDDLE PART) (ITEM NO. 1 TO 3 OF INDENT)						Q.P. NO	QP/QA/216457		CONTRACTOR	BHEL (HEEP) HWR	
								DATE	30.04.2024				
								REV. NO.	00		Indent	Indent no. & date 20240003 DATED 30.04.2024	
								PAGE NO.	1 of 2				
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
1	2	3	4	5	6	7	8	9	10	M	B	C	14


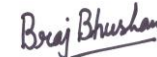
1	Material Receiving Inspection	Review of Supplier Test Certificate of Material for all the party materials	Major	Visual inspection	100 %	As per drg./ Standard	As per drg./ Standard	TC	√	P	V	-	Material will be supplied by BHEL. Transfer of Identification of BHEL material to be ensured.
2	<u>IN PROCESS-INSPECTION</u>												
2.1	WPS, PQR & WPQ Qualification	Scrutinizing	Major	Record check	100%	ASME SEC IX	ASME SEC IX	Test Report	-	P	V	-	BHEL /BHEL approved agency WPS/PQR/WPQ shall be used
2.2	Marking, Cutting & Edge Preparation	i) Marking	Major	Marking check	100 %	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
		ii) Dimension	Major	Measurement	100%	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
		iii) Edge preparation	Minor	Measurement	100%	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
2.3	Welding Operation	i) Fit up	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	V	-	1) BHEL approved electrode shall be used during welding 2) Qualified welders by BHEL /BHEL approved agency in accordance with ASME Section IX will be deployed on the job.
		ii) Visual inspection of welds	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	V	-	
		iii) NDT of welds, as applicable	Major	NDT	As per drg.	As per drg./ Standard	As per drg./ Standard	Report	√	P	W	W	
3	<u>FINAL INSPECTION</u>												

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  स्वाती जैन प्रबंधक गुणता आश्वासन	 ब्रज भूषण त्रिपाठी वरिष्ठ प्रबंधक गुणता आश्वासन
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN								APPLICABILITIES TO			
BHEL Haridwar approved vendors/sub-contractors only	ITEM/ EQUIPM- ENTS	STATOR FRAME (EE, TE & MIDDLE PART) (ITEM NO. 1 TO 3 OF INDENT)						Q.P. NO	QP/QA/216457				
								DATE	30.04.2024				
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	2 of 2		Indent	Indent no. & date 20240003 DATED 30.04.2024	
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
1	2	3	4	5	6	7	8	9	10	M	B	C	14

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

Note: 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  स्वाती जैन प्रबंधक गुणता आश्वासन	  ब्रज भूषण त्रिपाठी वरिष्ठ प्रबंधक गुणता आश्वासन
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CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन
MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT
मुख्य संविदाकार प्रस्ताव सह मुल्यांकन रिपोर्ट

Ref No: संदर्भ सं.:		Date: तिथि:		
i.	Main Contractor मुख्य संविदाकार			
ii.	Project परियोजना			
iii.	Package Name पैकेज का नाम	Package No पैकेज सं.		
iv.	Proposed Item/Scope of Sub-contracting उप-संविदा(अनुबंध) का प्रस्तावित मद/ दायरा			
v.	Item covered under निम्नलिखित के अंतर्गत शामिल मद	Schedule-1 /अनुसूची- 1	As per contract clause No- अनुबंध के अनुसार खंड सं.-- -	
		Schedule-2 अनुसूची- -2		
vi.	If item is Schedule-1 and proposed sub-vendor is indigenous, Main Contractor to explain how the contractual provisions will be fulfilled /यदि मद अनुसूची -1 है और प्रस्तावित उप-विक्रेता स्वदेशी है, तो मुख्य संविदाकार को स्पष्ट करना होगा कि संविदा/अनुबंध के प्रावधान कैसे पूरे किए जाएंगे			
vii.	Name and Address of the proposed Sub-vendor's works /प्रस्तावित सब-वेंडर का नाम तथा पता			
viii.	PO placement date/ Start of manufacturing (if self-manufactured) as per L2 network पीओ नियोजन की तिथि / एल- 2 नेटवर्क के अनुसार विनिर्माण (यदि स्व-निर्मित है) की शुरुआत			
ix.	Item Description (Type/Size/Rating/Scope of Sub-Contracting) मद का विवरण (प्रकार / आकार / रेटिंग / उप-अनुबंध का दायरा)	Total quantity of proposed item envisaged in this package (Nos/ Running Meters/ Kgs/ Tons etc) इस पैकेज में परिकल्पित प्रस्तावित मद की कुल मात्रा (संख्या / क्रियाशील मीटर / किलोग्राम / टन आदि)	Quantity proposed to be procured from proposed sub-vendor (Nos/ Running Meters /Kgs /Tons etc) प्रस्तावित उप-विक्रेता (संख्या / क्रियाशील मीटर / किलोग्राम / टन आदि) से खरीदी जाने वाली मात्रा	Timeline for quantity requirements as per project schedule & whether the proposed Sub-vendor equipped with adequate capacity to supply proposed order quantity in time / परियोजना समय सूची के अनुसार मात्रा आवश्यकताओं के लिए समय-सीमा और क्या प्रस्तावित उप-विक्रेता समय पर प्रस्तावित मांग की मात्रा की आपूर्ति करने में पूरी तरह से सक्षम है
x.	Supply experience of the proposed sub-vendor (including supplies to Main Contractor, if any) for similar item/scope of sub-contracting, for last 3 years (Note:- Only relevant experience details w.r.t. proposed item/scope of subcontracting to			



CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन
MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT
मुख्य संविदाकार प्रस्ताव सह मुल्यांकन रिपोर्ट

be brought out here) पिछले 3 वर्षों के लिए उप-अनुबंध के समान मद / दायरे के लिए प्रस्तावित सब-वेंडर (मुख्य संविदाकार हेतु आपूर्ति, यदि कोई हो, सहित) का आपूर्ति अनुभव (नोट: - उप-अनुबंध के प्रस्तावित मद / दायरे के संबंध में केवल प्रासंगिक अनुभव के विवरण का उल्लेख हो

<i>Project/Package</i> परियोजना/पैकेज	<i>Customer Name</i> ग्राहक का नाम	<i>Supplied Item</i> (<i>Type/Rating/Model</i> <i>/Capacity/Size etc</i>) आपूर्ति मद (प्रकार/रेटिंग /मॉडल /क्षमता/आकार आदि)	<i>PO ref</i> <i>no/date</i> पीओ संदर्भ सं. /तिथि	<i>Supplied</i> <i>Quantity</i> आपूर्ति की मात्रा	<i>Date of Supply</i> आपूर्ति की तिथि

We confirm that as per our assessment, the proposed sub-vendor has requisite capabilities & supply experience and is suitable for supplying the proposed item/scope of sub-contracting/हम अपने आकलन के अनुसार इस बात की पुष्टि करते हैं कि, प्रस्तावित उप-विक्रेता के पास अपेक्षित क्षमता और आपूर्ति करने का अनुभव है और उप-अनुबंध के दायरे /प्रस्तावित मद की आपूर्ति के लिए उपयुक्त है।

<i>Name:</i> नाम:	<i>Desig:</i> पद:	<i>Contact No:</i> दूरभाष सं.:	<i>Sign:</i> हस्ताक्षर:	<i>Date:</i> तिथि:
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Company's Seal/Stamp:- कंपनी का मुहर:-



CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन
SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली

i.	Item/Scope of Sub-contracting उप-संविदा(अनुबंध) का मद/ दायरा	
ii.	Address of the registered office पंजीकृत कार्यालय का पता	Details of Contact Person संपर्क व्यक्ति का विवरण (Name, Designation, Mobile, Email) (नाम, पदनाम, मोबाइल, ईमेल)
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured प्रस्तावित उप-विक्रेता के कार्यों का नाम और पता, जहां मद का निर्माण किया जा रहा है	Details of Contact Person: संपर्क व्यक्ति का विवरण (Name, Designation, Mobile, Email) (नाम, पदनाम, मोबाइल, ईमेल)
iv.	Annual Production Capacity for proposed item/scope of sub-contracting उप-संविदा(अनुबंध) के प्रस्तावित मद / दायरे के लिए वार्षिक उत्पादन क्षमता	
v.	Annual production for last 3 years for proposed item/scope of sub-contracting उप-संविदा(अनुबंध) के प्रस्तावित मद / दायरे के लिए पिछले 3 वर्षों का वार्षिक उत्पादन	
vi.	Details of proposed works प्रस्तावित कार्यों का विवरण	
1.	Year of establishment of present works वर्तमान फैक्टरी की स्थापना का वर्ष	
2.	Year of commencement of manufacturing at above works उपरोक्त फैक्टरी में निर्माण कार्य शुरू होने का वर्ष	
3.	Details of change in Works address in past (if any) पूर्व में फैक्टरी स्थल में परिवर्तन का विवरण (यदि कोई हो)	
4.	Total Area कुल क्षेत्र	
	Covered Area शामिल क्षेत्र	
5.	Factory Registration Certificate फैक्टरी पंजीकरण प्रमाण पत्र	Details attached at Annexure – F2.1 विवरण अनुलग्नक- एफ 2.1 पर संलग्न है
6.	Design/ Research & development set-up डिजाइन / अनुसंधान और विकास सेटअप (No. of manpower, their qualification, machines & tools employed etc.) (श्रमिकों की संख्या, उनकी योग्यता, मशीन और उपलब्ध उपकरण आदि)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design) Details attached at Annexure – F2.2 (if applicable) लागू / लागू नहीं, अगर विनिर्माण मुख्य संविदाकार / खरीददार के डिजाइन के अनुसार है)



CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन
SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली

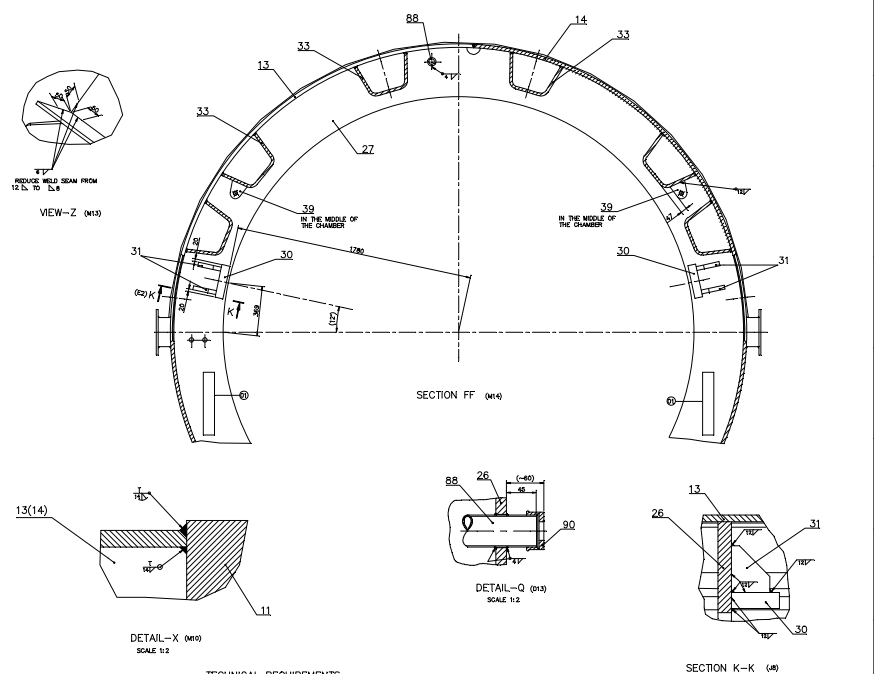
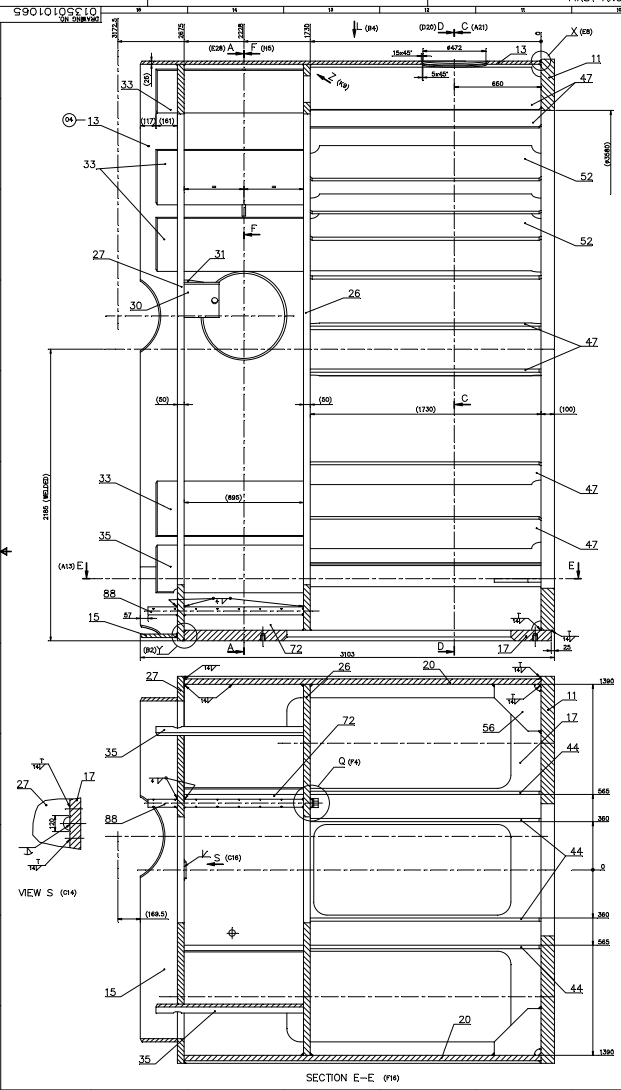
		विवरण अनुलग्नक -एफ 2.2 पर संलग्न है। (यदि लागू हो)
7.	Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc) मैनपावर विवरण के साथ समग्र संगठन का चार्ट(डिजाइन / विनिर्माण / गुणवत्ता आदि)	Details attached at Annexure – F2.3 विवरण अनुलग्नक – F2.3 में संलग्न है।
8.	After sales service set up in India, in case of foreign sub-vendor(Location, Contact Person, Contact details etc.) भारत में बिक्री सेवा की स्थापना के बाद, विदेशी उप-विक्रेता के मामले में(स्थल , संपर्क व्यक्ति, संपर्क विवरण आदि)	Applicable / Not applicable लागू / लागू नहीं Details attached at Annexure – F2.4 विवरण अनुलग्नक -2.4 पर संलग्न है।
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any फ्लोचार्ट सहित विनिर्माण प्रक्रिया निष्पादन योजना , जिसमें आउटसोर्स प्रक्रिया, यदि कोई हो, सहित कच्चे माल से तैयार उत्पाद तक विनिर्माण के विभिन्न चरणों को दर्शाया गया हो,	Details attached at Annexure – F2.5 विवरण अनुलग्नक - F2.5में संलग्न है।
10.	Sources of Raw Material/Major Bought Out Item कच्चे माल के स्रोत / खरीदे हुए मुख्य मद	Details attached at Annexure – F2.6 विवरण अनुलग्नक - F2.6में संलग्न है।
11.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing कच्चे माल / खरीदे हुए मद, प्रक्रियाबद्ध, अंतिम परीक्षण, पैकिंग करते समय गुणवत्ता नियंत्रण	Details attached at Annexure – F2.7 विवरण अनुलग्नक - F2.7 पर संलग्न है
12.	Manufacturing facilities (List of machines, special process facilities, material handling etc.) विनिर्माण सुविधा(मशीनों की सूची , विशेष प्रक्रिया सुविधाएं, सामग्री रख-रखाव आदि)	Details attached at Annexure – F2.8 विवरण अनुलग्नक - F2.8में संलग्न है।
13.	Testing facilities (List of testing equipment) परीक्षण सुविधाएं(परीक्षण उपकरण की सूची)	Details attached at Annexure – F2.9 विवरण अनुलग्नक – F2. 9 में संलग्न है।
14.	If manufacturing process involves fabrication then- यदि निर्माण प्रक्रिया में फेब्रिकेशन की गई है तो- List of qualified Welders पात्र वेल्डर की सूची List of qualified NDT personnel with area of specialization विशेषज्ञता के क्षेत्र सहित पात्र एनडीटी कार्मिकों की सूची	Applicable / Not applicable लागू / लागू नहीं Details attached at Annexure – F2.10 विवरण अनुलग्नक - F2.10में संलग्न है। (if applicable) लागू / लागू नहीं
15.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses सब-वेंडर द्वारा बाह्य स्रोतों	Applicable / Not applicable लागू / लागू नहीं



CORPORATE QUALITY ASSURANCE/ कॉरपोरेट गुणवत्ता आश्वासन
SUB-VENDOR QUESTIONNAIRE/ सब-वेंडर प्रश्नावली

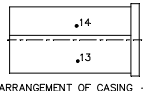
	(उनके नाम और पते सहित)से करवाएं गए निर्माण प्रक्रियाओं की सूची	<i>Details attached at Annexure. –F2.11</i> विवरण अनुलग्नक - F2.10में संलग्न है। (if applicable) (यदि लागू हो)			
16.	<i>Supply reference list including recent supplies</i> नवीनतम आपूर्ति सहित आपूर्ति संदर्भ सूची	<i>Details attached at Annexure – F2.12</i> विवरण अनुलग्नक - F2.12 में संलग्न है। (as per format given below) (नीचे दिए गए प्रारूप के अनुसार)			
<i>Project/ package</i> परियोजना /पैकेज	<i>Customer Name</i> ग्राहक का नाम	<i>Supplied Item (Type/Rating/Model /Capacity/Size etc)</i> आपूर्ति की गई वस्तु (प्रकार / रेटिंग / मॉडल / क्षमता / आकार आदि)	<i>PO ref no/date</i> पीओ संदर्भ सं. / तिथि	<i>Supplied Quantity</i> आपूर्ति की मात्रा	<i>Date of Supply</i> आपूर्ति की तारीख
17.	<i>Product satisfactory performance feedback letter/certificates/End User Feedback</i> उत्पाद के संतोषजनक प्रदर्शन संबंधी फीडबैक पत्र / प्रमाण पत्र / अंतिम उपयोगकर्ता फीडबैक		<i>Attached at annexure - F2.13</i> अनुलग्नक F2. 3पर संलग्न है		
18.	<i>Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating)</i> प्रस्तावित उत्पाद (एक समान या उच्च रेटिंग वाले) के लिए टाइप टेस्ट रिपोर्ट (टाइप टेस्ट विवरण, रिपोर्ट संख्या, एजेंसी, जांच की तारीख) का सारांश नोट: - रिपोर्ट प्रस्तुत करने की आवश्यकता नहीं है <i>Note:- Reports need not to be submitted</i>		<i>Applicable / Not applicable</i> लागू / लागू नहीं <i>Details attached at Annexure – F2.14</i> विवरण अनुलग्नक - F2.1 4में संलग्न है (if applicable) (यदि लागू हो)		
19.	<i>Statutory / mandatory certification for the proposed product</i> प्रस्तावित उत्पाद के लिए वैधानिक / अनिवार्य प्रमाणीकरण		<i>Applicable / Not applicable</i> लागू / लागू नहीं <i>Details attached at Annexure – F2.15</i> (if applicable) (यदि लागू हो)		
20.	<i>Copy of ISO 9001 certificate</i> आईएसओ 9001 प्रमाण पत्र की प्रति (if available)(यदि उपलब्ध हो)		<i>Attached at Annexure – F2.16</i> अनुलग्नक में संलग्न - F2.1 6 है		
21.	<i>Product technical catalogues for proposed item (if available)</i> प्रस्तावित मद के लिए उत्पाद तकनीकी कैटलॉग (यदि उपलब्ध हो)		<i>Details attached at Annexure – F2.17</i> विवरण अनुलग्नक - F2.1 7 में संलग्न है		
<i>Name:</i> नाम:	<i>Desig:</i> पद:	<i>Sign:</i> हस्ता क्षर:	<i>Date:</i> तिथि:		

Company's Seal/Stamp:- कंपनी की मुहर / मोहर: -



- TECHNICAL REQUIREMENTS**
- IDENTIFICATION ACCORDING TO IEC 6000 397.
 - SURFACE TREATMENT AS PER TECHNOLOGICAL INSTRUCTION 0913/014
 - QUALITY GRADE AS PER IEC 602009 C5/C6/C7/C8
 - TEST SCOPE AS PER THE FOLLOWING CATEGORY OF SERVICE REQUIREMENTS 'S1'
 - SEAL ALL CLEARANCES AT DUCTS, FIBES AND INNER WALLS WITH 40. ALL OVER. WELD GROOVE, FIBES AND INNER WALLS ALL OVER.
 - UNPROTECTED WELD SEAMS ARE AS FOLLOWS :-
 - 20 MM WALL & RIBS 12 BLON BOTH SIDES
 - THE WELD SEAMS MARKED 'T' ARE IMPORTANT. DUE CARE TO BE TAKEN DURING WELDING AS THESE WELD SEAMS WILL BE CHECKED FOR GAS TRAPNESS AT THE TIME OF HYDRAULIC AND AIR PRESSURE TESTING AFTER STATOR MACHINING IN EL-1 AS PER STANDARD 1040015/1040106.

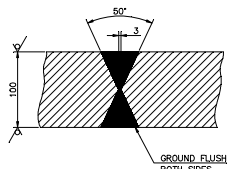
WELD SYMBOLS & SIZE OF WELD SEAM	4 S,	5 S,	8 S,	10 S,	12 S,	14 S,	16 S,	20 S,	25 S
WELD SEAM LENGTH IN M	8	2	22.5	22.5	146	47	8.5	3.0	21
WEIGHT OF DEPOSITED METAL IN Kg	0.5	0.2	5.6	8.8	82.5	36.2	7.5	7.4	50
TYPE OF ELECTRODE	E-7018								



NAME OF UNIT DEL.		DATE		BY		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	
DESIGNED	DATE	DRAWN	DATE	BY	DATE	THDF 125/67	
CHECKED		CHECKED		CHECKED			
BHARAT HEAVY ELECTRICALS LTD. MAHARAJA							SCALE: 1:10 21586 01350101064
STATOR FRAME (EE)							01350101064

11350101065

50° ALONG THE CONTOUR

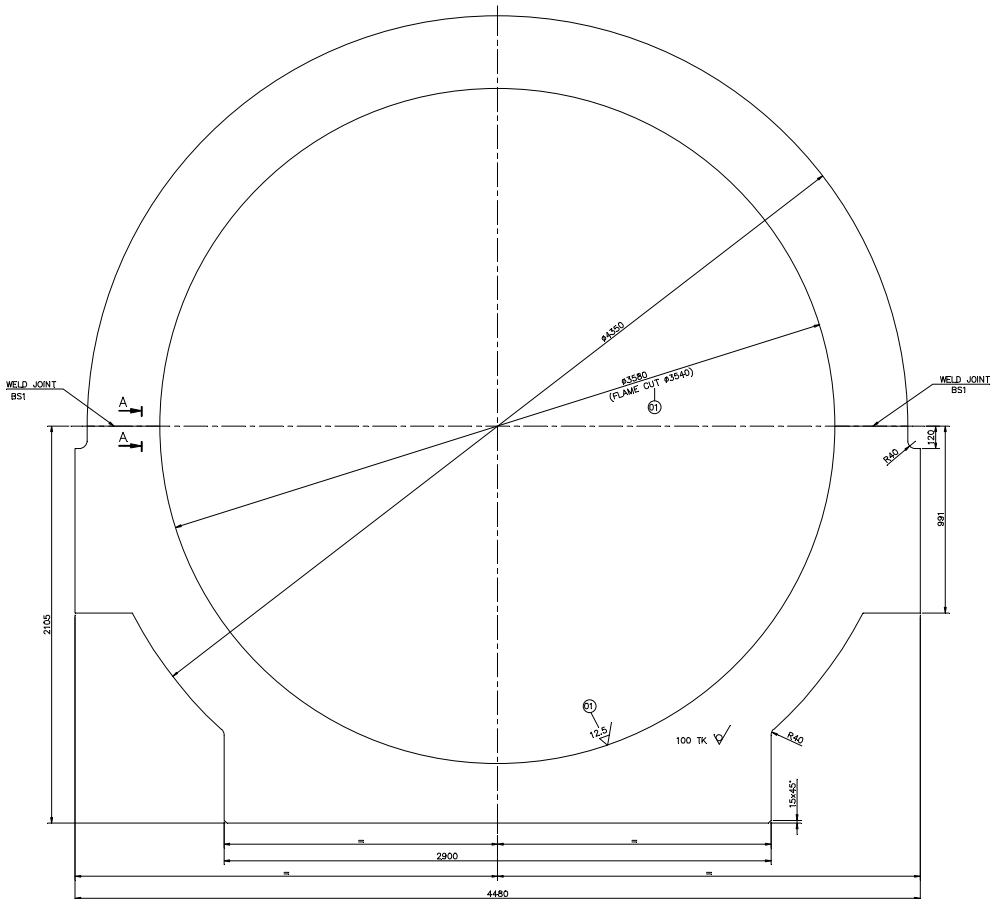


SECTION AA (ROTATED)
SCALE 1:2.5

NOTE: -
THE SOFT COPY OF THIS
DRAWING IS DRAWN TO
SCALE 1:1

TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397.
2. STRAIGHTEN THE PLATE AFTER WELDING.
3. TEST SCOPE ACCORDING TO HW0850199, CATEGORY OF SERVICE REQUIREMENT-1.
4. CLASSIFICATION OF WELD GROUPS ACCORDING TO HW 0620.099 BS.
5. WELD SEAM TO BE GROUND FLUSH.
6. STRESS RELIEVING TO BE DONE AFTER WELDING AS PER HW0641999.

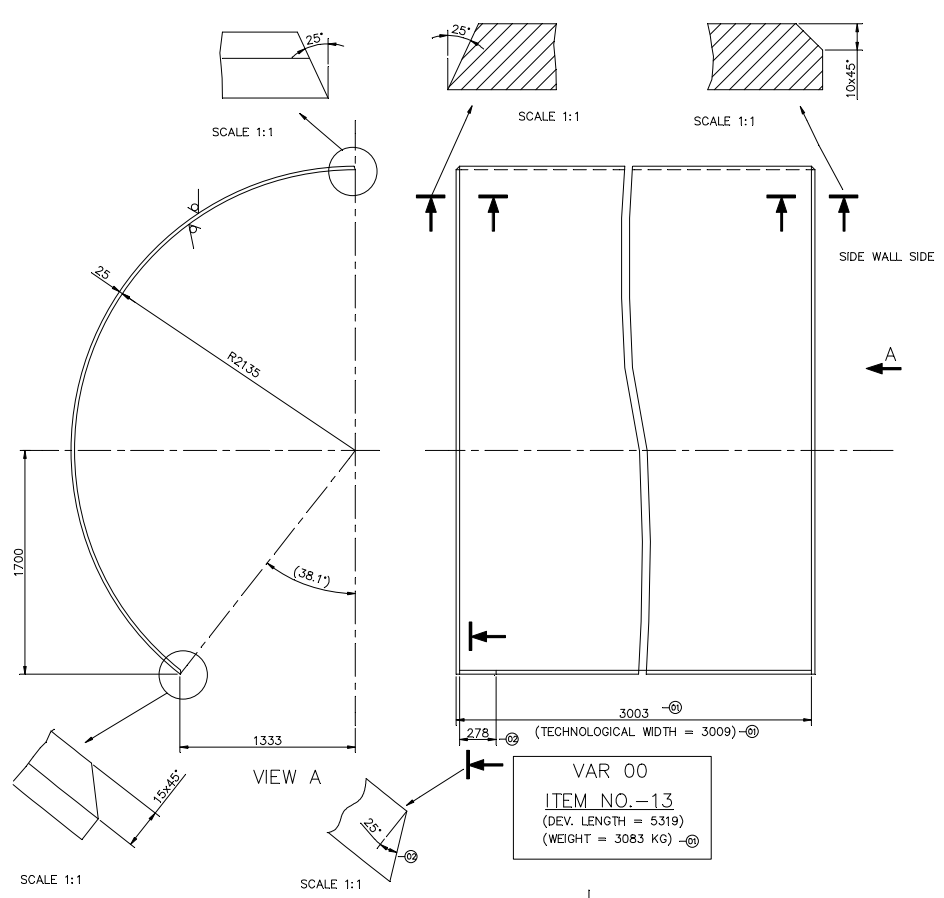


CERN NO.		REV. NO.		TYPE OF PRODUCT		THDF 125/67	
NAME		SIGN		OR		NAME OF CUSTOMER/ PROJECT	
DATE		DATE		DATE		DATE	
MATERIAL		LAWYER		DATE		DATE	
WELDING		WELDING		WELDING		WELDING	
GAS CUTTING		GAS CUTTING		GAS CUTTING		GAS CUTTING	
REV. DATE		REV. DATE		REV. DATE		REV. DATE	
CHECKED		CHECKED		CHECKED		CHECKED	
APPROVED		APPROVED		APPROVED		APPROVED	
CHANGES DONE AS PER		CHANGES DONE AS PER		CHANGES DONE AS PER		CHANGES DONE AS PER	
CHANGE ADVISE NO.		CHANGE ADVISE NO.		CHANGE ADVISE NO.		CHANGE ADVISE NO.	
TGE-12-F0356		TGE-12-F0356		TGE-12-F0356		TGE-12-F0356	
TITLE		TITLE		TITLE		TITLE	
SIDE WALL		SIDE WALL		SIDE WALL		SIDE WALL	
DRAWING NO.		DRAWING NO.		DRAWING NO.		DRAWING NO.	
11350101065		11350101065		11350101065		11350101065	
SHEET NO. 1		SHEET NO. 1		SHEET NO. 1		SHEET NO. 1	
NO. OF SHEETS 1		NO. OF SHEETS 1		NO. OF SHEETS 1		NO. OF SHEETS 1	
SIZE A1		SIZE A1		SIZE A1		SIZE A1	

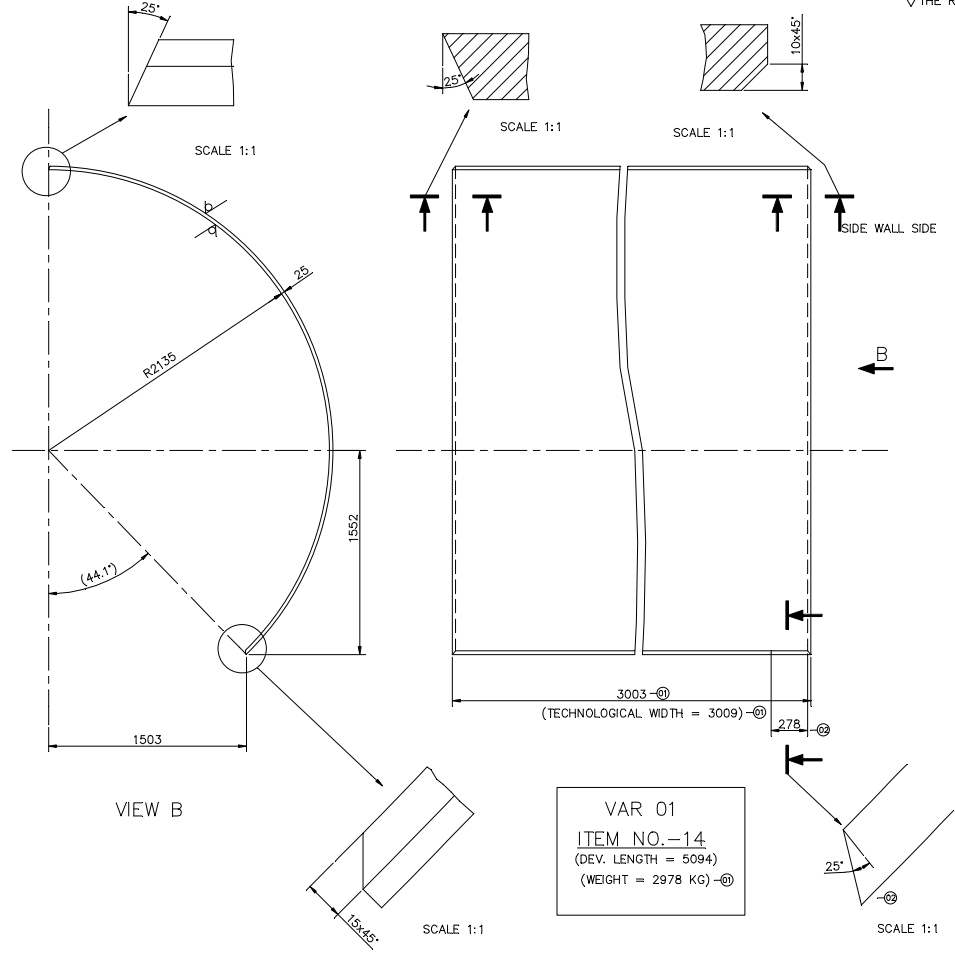
FILE NAME : 11350101065

DRAWING NO. 11350101071

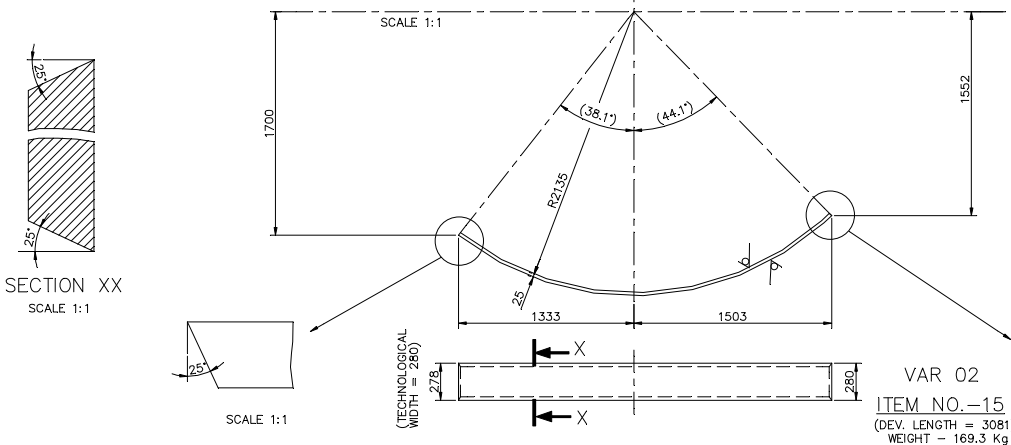
50/ THE REST



VAR 00
ITEM NO. -13
(DEV. LENGTH = 5319)
(WEIGHT = 3083 KG)



VAR 01
ITEM NO. -14
(DEV. LENGTH = 5094)
(WEIGHT = 2978 KG)



VAR 02
ITEM NO. -15
(DEV. LENGTH = 3081)
WEIGHT - 169.3 Kg

TECHNICAL REQUIREMENTS

1. MARK IDENTIFICATION AS PER HW 0400397
2. DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY.

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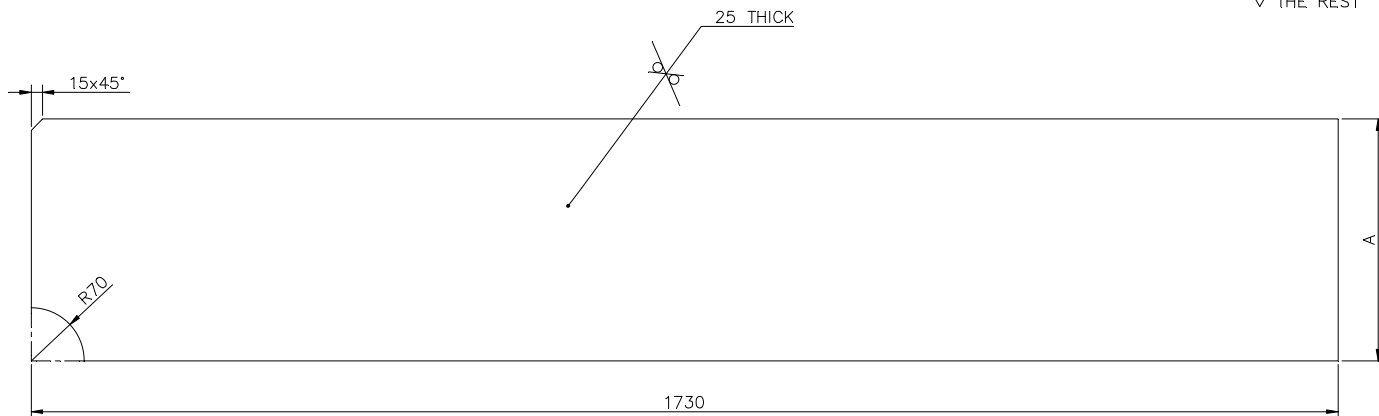
SIGN & DATE

INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67	
APPROVED BY:	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE
MTX	AWITXSC	AWITXIS	2/1/2007	STGEPK	STGEPK		20/1/2007
GRADE OF UNTOL. DIM.: -				M/GG - V/C/A/F - AA - 0230208			
WELDING - A/B/C/D - AA621104				GAS CUTTING - T3/AA0621101			
REV. DATE ALTERED AMISHRA sd/-				REV. DATE ALTERED AMISHRA sd/-			
01 28.4.17 CHECKED AMITAL				01 24.2.16 CHECKED AMITAL			
CHANGES DONE AS PER CHANGE ADVICE NUMBER: TGE-17-F0099.				CHANGES DONE AS PER CHANGE ADVICE NUMBER: TGE-16-F0064			
DEPT. TGE		SCALE 1:20		WEIGHT (Kg.)		REF. TO ASSY. DRG.	
CODE 4133		SEE ITEM		0-13501-01065		ITEM NO. OF SHEETS 1	
TITLE				DRAWING NO.			
CASING				11350101071			
				SHEET NO. 1			

DRAWING NO. 31350101433

50
✓ THE REST



VAR	A	RE. TO ASSY.	ITEM NO.	WT.(KG.)
00	325	0-13501-01065	044	109.50
01	320	0-13501-01065	047	107.90

TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION AS PER HW 0400397

24-0193-12665/044 & 47
REF. DRG NO. KWU

SIGN & DATE
INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO.OF	
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEPK	STGEPK	20/11/2007	VAR.	
GRADE OF UNTOL. DIM.: -				APD	STGEAM	STGEAM	27/11/2007		
M/CG- V/C/M/F AA 0230208				APD		ATGERK	ATGERK	28/11/2007	73, 74
WELDING A/B/C/D-AA621104				REF. TO ASSY. DRG.		SEE TABLE		ITEM	NO.OF
GAS CUTTING-T3'AA0621101				DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	NO.	ITEMS
REV.	DATE	ALTERED	REV. DATE	ALTERED	4133	1:5	SEE TABLE	NO.	NO.
		CHECKED		CHECKED					
TITLE				PLATE		DRAWING NO.		31350101433	
						SHEET NO.1		NO.OF SHEETS 1	

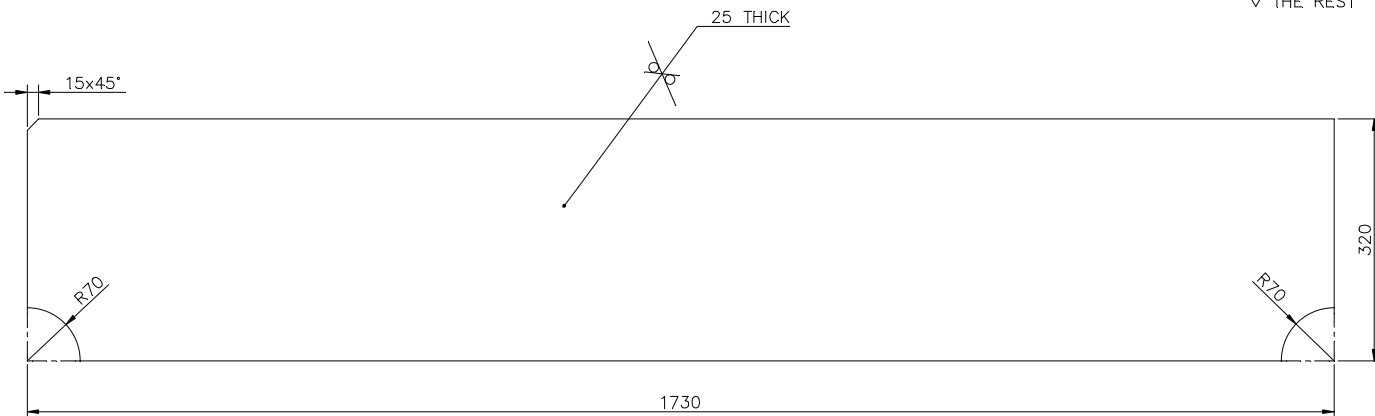
31350101433

SIZE A3

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DRAWING NO. 31350101434

50 THE REST



TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION AS PER HW 0400397

24-0193-128650/048
REF. DRG NO. KWU

SIGN & DATE

INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67		
AGREED DESIGN	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO. OF VAR.
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEPK	STGEPK	20/11/2007	
GRADE OF UNTOL. DIM.: -				APD	STGEAM	STGEAM	27/11/2007	
M/CG- V/C/M/F AA 0230208				ATGERK	ATGERK	ATGERK	28/11/2007	73, 74
WELDING - A/B/C/D - AA621104				DEPT. TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.
GAS CUTTING - T3'AA0621101				CODE 4133	1:5	107.1	0-13501-01065	ITEM NO. 048
REV.	DATE	ALTERED	REV.	DATE	ALTERED	CHECKED	TITLE	
		CHECKED					PLATE	
DRAWING NO. 31350101434				SHEET NO. 1		NO. OF SHEETS 1		

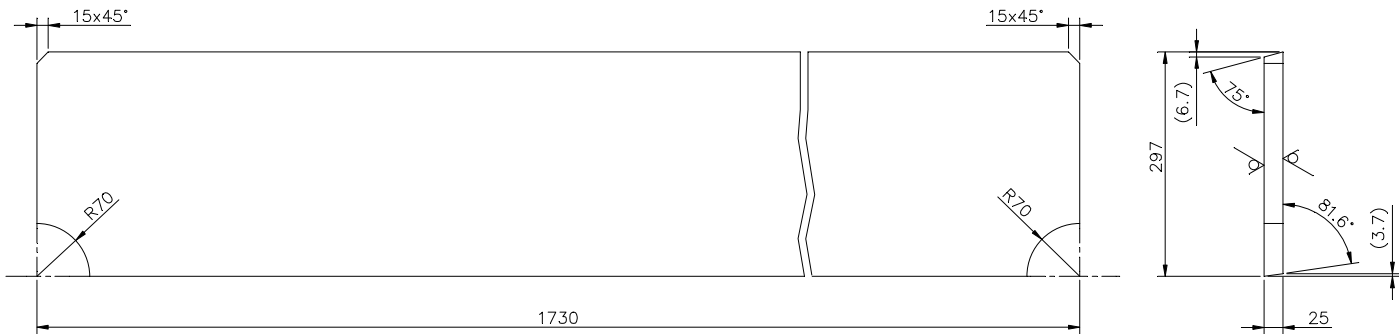
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DRAWING NO. 31350101435

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THE REST



TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION AS PER HW 0400397

24-0193-128650/052
REF. DRG NO. KWU
SIGN & DATE
INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67		
AGREED DESIGN	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO. OF VAR.
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEPK	STGEPK	20/11/2007	
GRADE OF UNTOL. DIM.: -				APD	STGEAM	STGEAM	27/11/2007	
M/CG- V/G/M/F AA 0230208				ATGERK	ATGERK	ATGERK	28/11/2007	73, 74
WELDING A/B/C/D-AA621104				DEPT. TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.
GAS CUTTING-T3'AA0621101				CODE 4133	1:5	97.6	0-13501-01065	ITEM NO. 052
REV.	DATE	ALTERED	REV.	DATE	CHECKED	TITLE		DRAWING NO.
		CHECKED				PLATE		31350101435
						SHEET NO. 1		NO. OF SHEETS 1

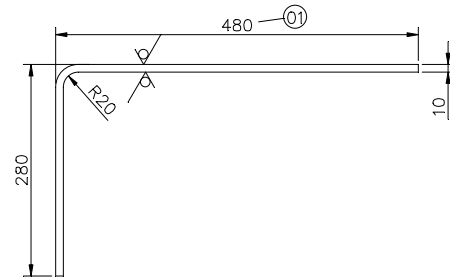
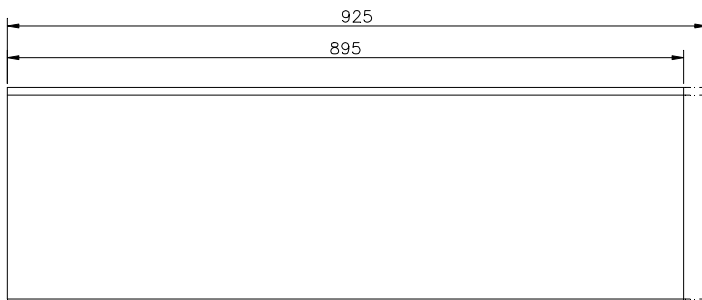
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31350101436
DRAWING NO.

50° THE REST



DEVELOPED LENGTH 739 MM. —(01)

ALLOWANCE FOR IN SITU ASSEMBLY

TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW0400397

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24-0193-126650/72
REF. DRG NO. XWU

SIGN & DATE

INVENTORY NO.

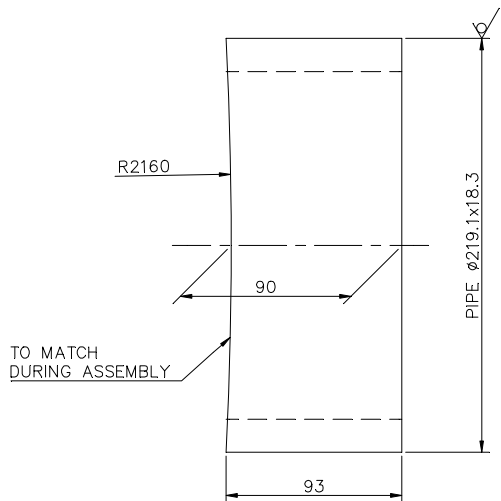
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67					
AGREED DEF.	NAME	SIGN	DATE	BHARAT HEAVY ELECTRICALS LTD. HARDWAR		DRN	NAME	SIGN	DATE	NO. OF VAR.	
WTX	AWTXTSC	AWTXTSC	27/11/2007			CHD	STGEPK	STGEPK	20/11/2007		
GRADE OF UNTOL. DIM.: -						APD	STGEAM	STGEAM	27/11/2007		
M/CG- V/c/M/P-AA 0230208							ATGERK	ATGERK	28/11/2007	73, 74	
WELDING - X/B/G/B-AA621104						REF. TO ASSY. DRG.		ITEM NO.		NO. OF ITEMS	
GAS CUTTING - T3'AA0621101						0-13501-01065		072		75, 77	
REV.	DATE	ALTERED	REV. DATE	ALTERED	DEEPAK sd/-	DEPT. TGE	SCALE	WEIGHT(Kg.)			
		CHECKED	01	29.12.15	CHECKED AMISHRA sd/-	CODE 4133	1:5	21.7			
CHANGES DONE AS PER CHANGE ADVICE NO: TGE-15-F0392						TITLE		PLATE		DRAWING NO. 31350101436	
								SHEET NO. 1		NO. OF SHEETS 1	

31350101436

SIZE A3

DRWING NO
31350101438

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TECHNICAL REQUIREMENT
1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

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24-0193-126650/097
REF. DRG NO. 'XIU

SIGN & DATE

INVENTORY NO.

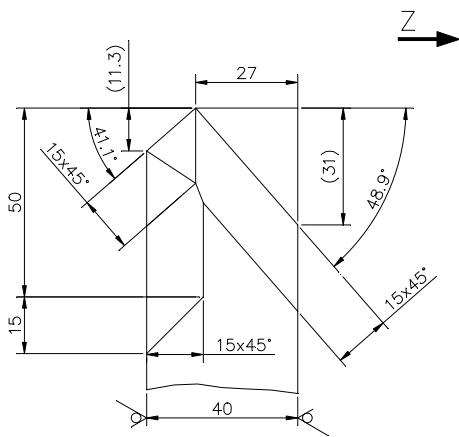
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67				
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO.OF		
WTX	AWTXTSC	AWTXTSC	27/11/2007	STGEPK	STGEPK		20/11/2007	VAR.		
GRADE OF UNTOL. DIM.: -				CHD	STGEAM	STGEAM	27/11/2007			
M/CG- V/C/M/F AA 0230208				APD	ATGERK	ATGERK	28/11/2007	73, 74		
WELDING - A/B/C/D - AA621104				DEPT. TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF
GAS CUTTING - 'T3' AA0621101				CODE 4133	1:2	8.3	0-13501-01065	097	75, 77	
REV.	DATE	ALTERED	CHECKED	TITLE		DRAWING NO.		SHEET NO.1		NO.OF SHEETS 1
				PIPE		31350101438				

31350101438

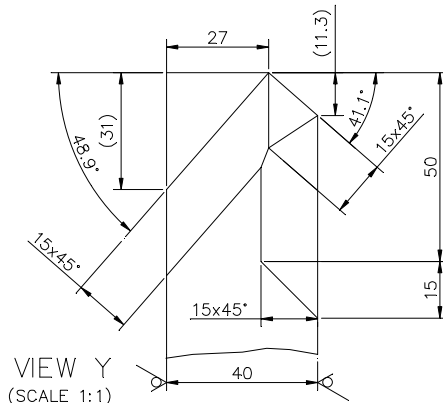
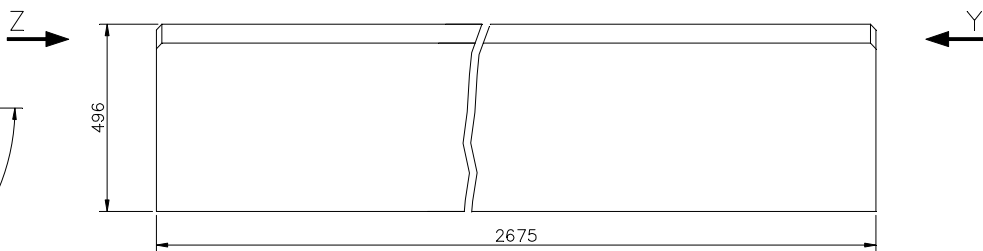
SIZE A3

DRAWING NO. 31350101439

50 / THE REST



VIEW Z (SCALE 1:1)



VIEW Y (SCALE 1:1)

TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION AS PER HW0400397.

24-0193-126650/020
REF. DRG NO. YU

SIGN & DATE

INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.	
APPROVED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT: THDF 125/67

GRADE OF UNTOL. DIM.: -

M/CG- V/C/M/F AA 0230208

WELDING - A/B/C/D - AA621104

GAS CUTTING - T3'AA0621101

REV. DATE ALTERED

CHECKED

REV. DATE ALTERED

CHECKED

DEPT. TGE

CODE 4133



SCALE 1:10

WEIGHT(Kg.) 405.7

REF. TO ASSY. DRG. 0-13501-01065

ITEM NO. 020

NO. OF ITEMS 75, 77

BHARAT HEAVY ELECTRICALS LTD. HARDWAR

DRN	NAME	SIGN	DATE	NO. OF VAR.
STGEPK	STGEPK	STGEPK	20/11/2007	
CHD	STGEAM	STGEAM	27/11/2007	
APD	ATGERK	ATGERK	28/11/2007	73, 74

TITLE PLATE

DRAWING NO. 31350101439

SHEET NO. 1 NO. OF SHEETS 1

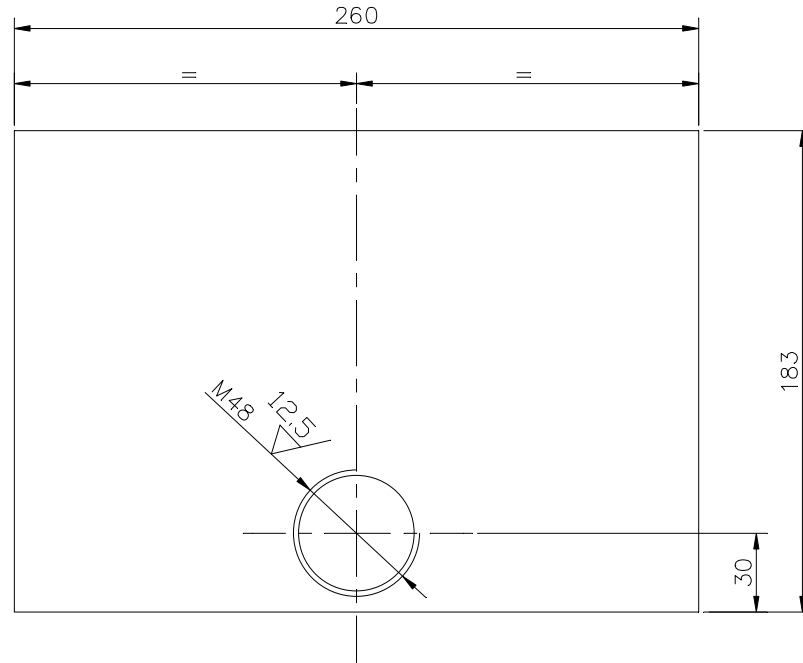
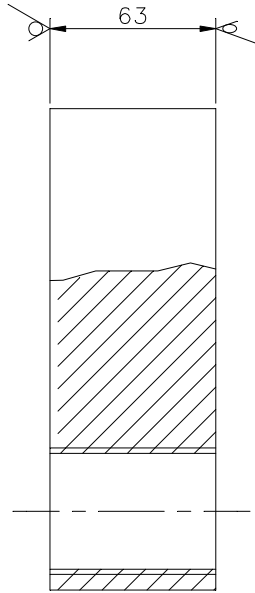
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SIZE A3

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DRAWING NO. 31350101440



50°
ALONG CONTOUR

NOTE: -

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TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

24-0193-126650/030
REF. DRG NO. KWU

SIGN & DATE

INVENTORY NO.

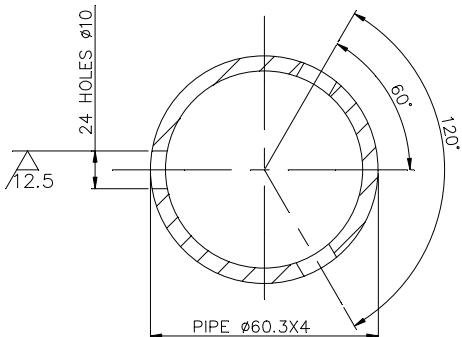
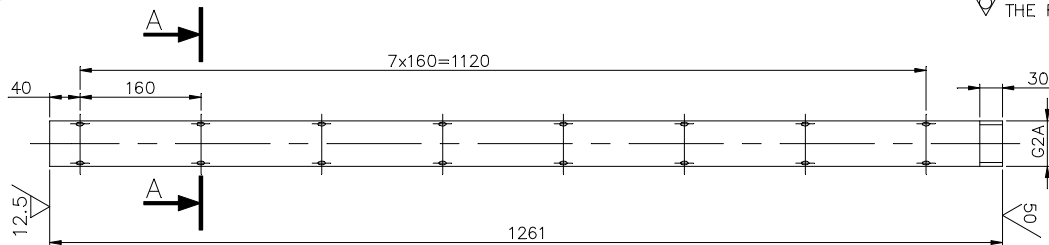
GRADE OF UNTOL. DIM.: -				CBOM NO. 01350101064		STATUS OF DRG.	
M/CG- V/E/M/P AA 0230208				AGREED DEPT.	NAME	SIGN	DATE
WELDING - A/B/C/D - AA621104 -				WTX	AWTXTSC	AWTXTSC	27/11/2007
GAS CUTTING - T3'AA0621101							
REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				THDF 125/67				
BHARAT HEAVY ELECTRICALS LTD. HARDWAR				DRN	NAME	SIGN	DATE	NO. OF VAR.
				CHD	STGEPK	STGEPK	20/11/2007	
				APD	STGEAM	STGEAM	27/11/2007	
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ATGERK	ATGERK	28/11/2007	73, 74	
CODE 4133	1:2	22.6	0-13501-01065				NO. OF ITEMS	
TITLE				DRAWING NO.		NO. OF SHEETS		
PLATE				31350101440		1 22, 23, 24		
				SHEET NO.1		NO. OF SHEETS 1		

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DRAWING NO. 31350101442

THE REST



SECTION AA
SCALE 1:1

TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW 0400.397

24-0193-126650/088
REF. DRG NO.

SIGN & DATE

INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.	
AGREED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	STGEPK	STGEPK	DATE	NO. OF VAR.
	CHD	STGEAM	STGEAM	27/11/2007	
	APD	ATGERK	ATGERK	28/11/2007	73, 74
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.		
CODE 4133	1:5	6.9	0-13501-01065	ITEM NO.	NO. OF ITEMS
TITLE			DRAWING NO.		
PIPE			31350101442		
			SHEET NO. 1 NO. OF SHEETS 1		

GRADE OF UNTOL. DIM.: -		REV. DATE		ALTERED CHECKED	
M/CG-	V/C/M/P AA	0230208			
WELDING - A/B/C/D - AA621104		REV. DATE		ALTERED CHECKED	
GAS CUTTING - T3'AA0621101					
REV. DATE	ALTERED	REV. DATE	ALTERED	CHECKED	

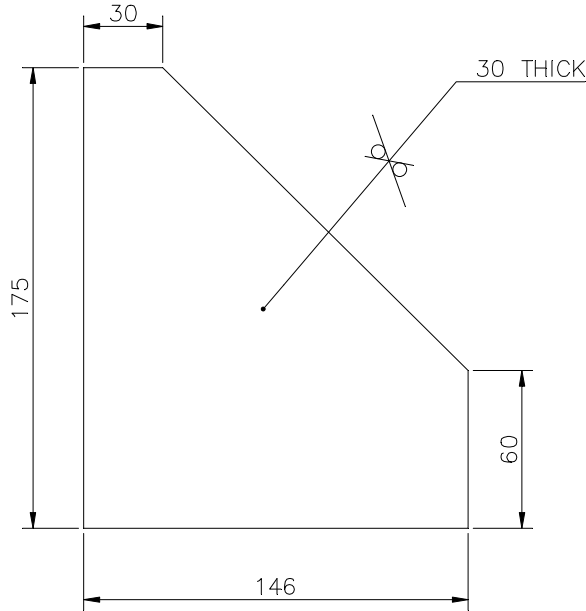
31350101380

SIZE A3

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DRAWING NO. 31350101443

50/√ ALONG CONTOUR



TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

NOTE: -

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24-0193-115765/031
KWU
REF. DRG NO.

SIGN & DATE

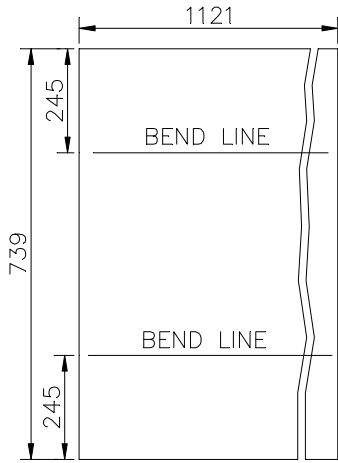
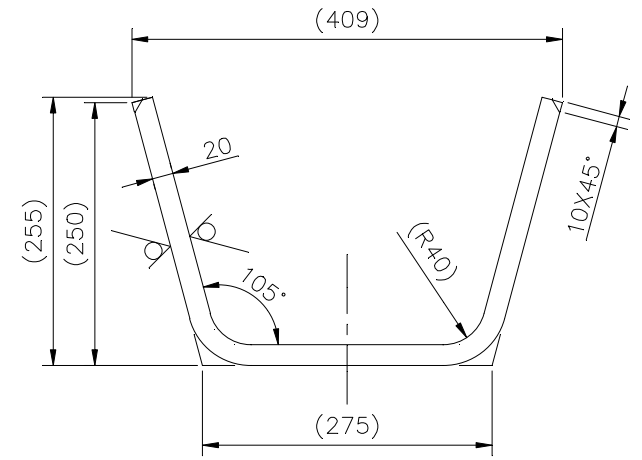
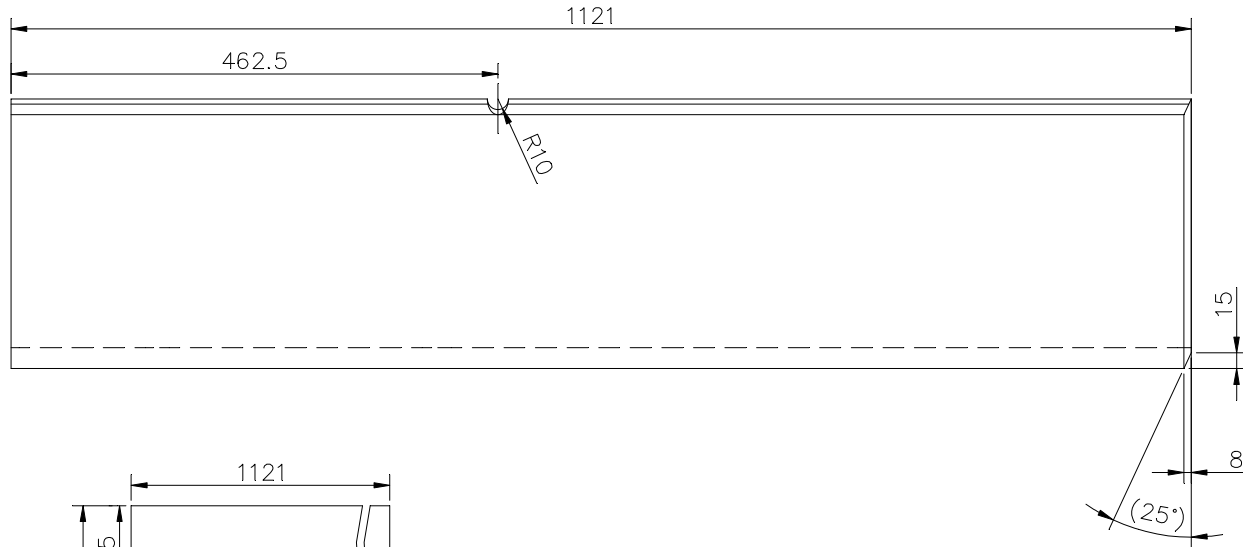
INVENTORY NO.

GRADE OF UNTOL. DIM.: -			CBOM NO. 01350101064		STATUS OF DRG.	
M/CG- √/G/M/√ AA 0230208	WTX	AWTXTSC	AWTXTSC	27/11/2007		
WELDING-A/B/C/D-AA621104						
GAS CUTTING-T3'AA0621101						
REV.	DATE	ALTERED	REV.	DATE	ALTERED	CHECKED
		CHECKED			CHECKED	

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT			THDF 125/67				
BHARAT HEAVY ELECTRICALS LTD. HARDWAR			DRN	NAME STGEPK	SIGN STGEPK	DATE 20/11/2007	NO.OF VAR.
			CHD	STGEAM	STGEAM	27/11/2007	
			APD	ATGERK	ATGERK	28/11/2007	73, 74
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.		ITEM NO.	NO.OF ITEMS	
CODE 4133	1:2	4.4	013501-01065		031	75, 77	
TITLE PLATE			DRAWING NO. 31350101443				
			SHEET NO.1		NO.OF SHEETS 1		

DRAWING NO. 31350101446

50 / ALONG CONTOUR



POSITION OF BEND LINE


TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397
2. STRETCHED WIDTH = 739 MM

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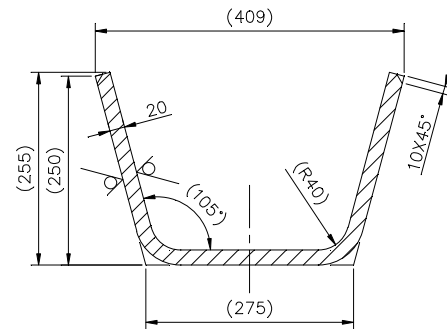
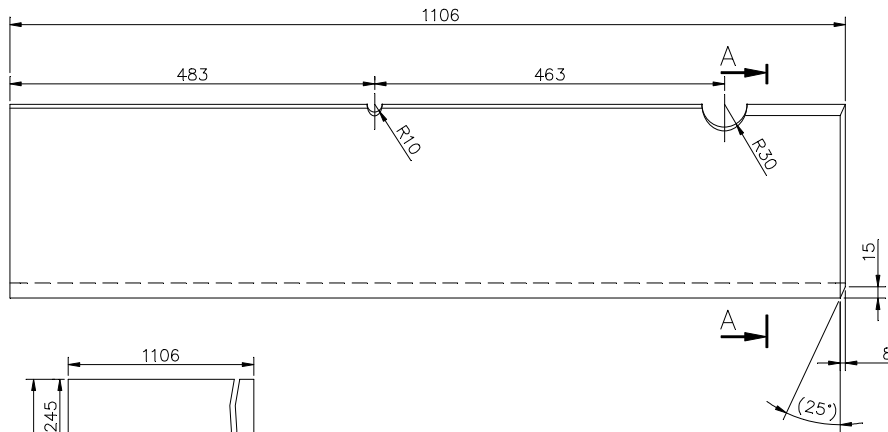
INVENTORY NO. SIGN & DATE REF. DRG NO.

GRADE OF UNTOL. DIM.: -			CBOM NO. 01350101064		STATUS OF DRG.	
M/CG - V/C/M/F AA-0230208	WTX	AWTXTSC	SIGN	DATE	27/11/2007	
WELDING A/B/C/D-AA621104						
GAS CUTTING-T3'AA0621101						
REV.	DATE	ALTERED	REV.	DATE	ALTERED	CHECKED
		CHECKED			CHECKED	

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT			THDF 125/67				
 BHARAT HEAVY ELECTRICALS LTD. HARDWAR			DRN	NAME STGEPK	SIGN STGEPK	DATE 20/11/2007	NO.OF VAR.
DEPT. TGE			CHD	STGEAM	STGEAM	27/11/2007	
CODE 4133			APD	ATGERK	ATGERK	28/11/2007	73, 74
TITLE GAS CHANNEL			SCALE 1:5		WEIGHT(Kg.) 128.9		ITEM NO. 033
REF. TO ASSY. DRG.			01350101065		DRAWING NO. 31350101446		NO.OF ITEMS 75, 77
SHEET NO.1			NO.OF SHEETS 1				

DRAWING NO. 31350101447

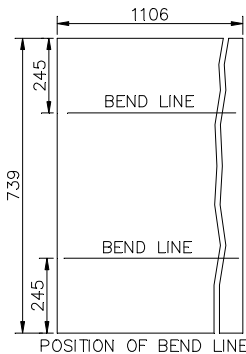
50° ALONG CONTOUR



SECTION AA

TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397
2. STRETCHED WIDTH = 739 MM



POSITION OF BEND LINE

CBOM NO. 01350101064		STATUS OF DRG.	
DESIGNED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
GRADE OF UNTOL. DIM.: -			
M/C6-V/C/M/F AA 0230208			
WELDING-A/B/C/D-AA621104			
GAS CUTTING-T3'AA0621101			
REV.	DATE	ALTERED	CHECKED

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	NAME	SIGN	DATE	NO. OF VAR.
	CHD	STGEPK	STGEPK	20/11/2007	
	APD	STGEAM	STGEAM	27/11/2007	
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
CODE 4133	1:5	127.4	0-13501-01065	035	75, 77
TITLE			DRAWING NO.		
GAS CHANNEL			31350101447		
			SHEET NO.1 NO.OF SHEETS 1		

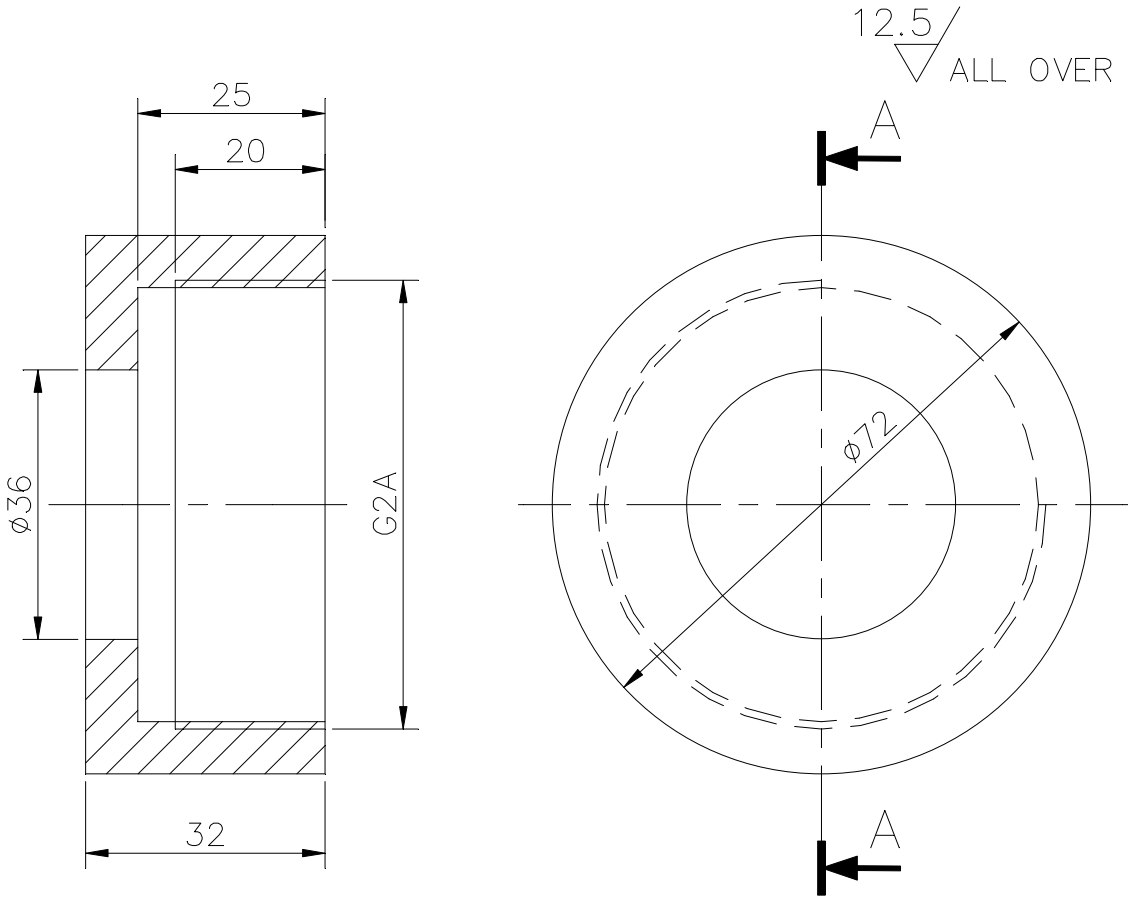
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SIZE A3

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 24-0103-126650/035
 REF. DRG NO. KWU
 SIGN & DATE
 INVENTORY NO.

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED PK CHECKED RK	SD/- SD/-	CBOM No. 01350101000		STATUS OF DRG	
			SUPERSEDES OLD DRG. UNDER THE SAME NO. C/A NO. TGE-05-F0189				AGREED DEPT. WT	NAME Y.S.SETHI	SIGN SD/-	DATE 24.9.05
GRADE OF UNTOL.DIM.M/CGG/M/F.AA0230208			WELDING A/B/C/D AA0621104			GAS CUTTING-T3 AA0621101				

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SECTION AA

TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

41350101039

INVENTORY No.	DEPT. TGE	 BHARAT HEAVY ELECTRICALS LTD HARDWAR	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133		1:1	0.45	9-13501-01003	031	
	TITLE				DRAWING No.		
	TG-HW-0500-2				4-13501-01039		
					SHEET No. 1	No.OF SHEETS	1

REF.DRG.No.

SIGN & DATE

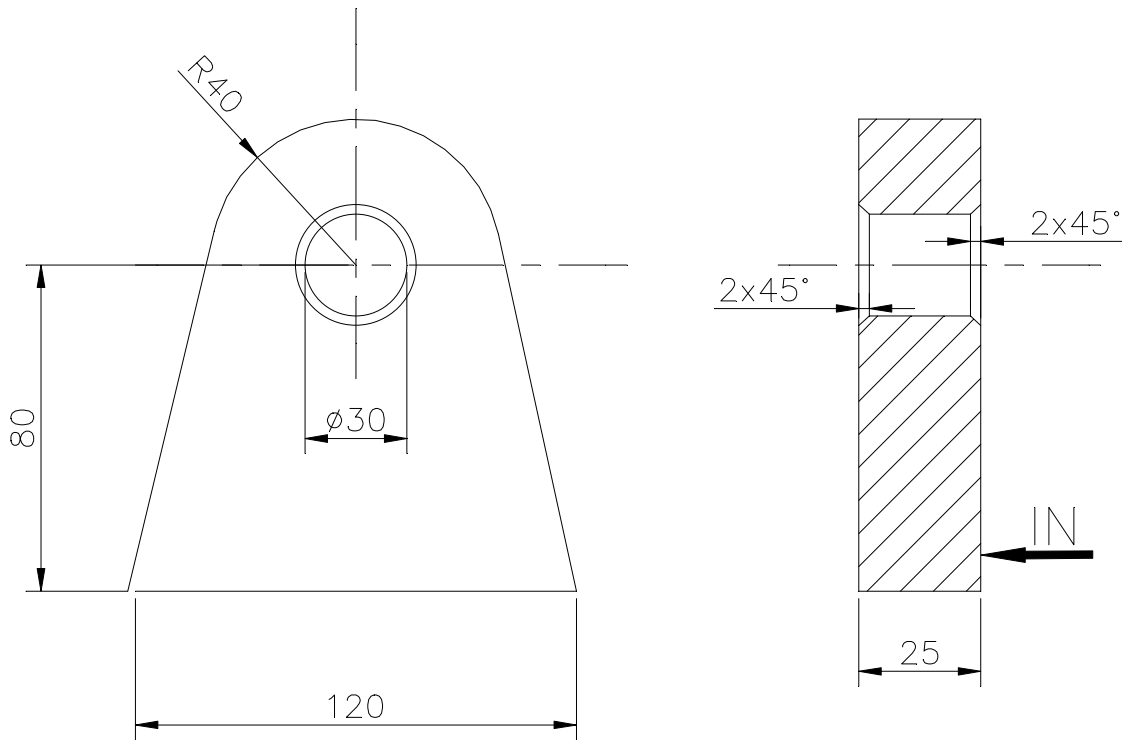
	NAME	SIGN	DATE	NO. OF VAR
DRN	PAWAN	SD/-	20.9.05	
CHD	RK	SD/-	20.9.05	
APD	RK	SD/-	29.9.05	

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PRADEEP SD/-	CBOM No.		STATUS OF DRG
		CHECKED	01	31/08/09	CHECKED	AMIT SD/-	01350101030		
DRAWING SUPERSEDES WITHOUT ANY CHANGE						AGREED DEPT.	NAME	SIGN	DATE
C/A No-TGE-09-F0233						WT	CHAURASIA	SD/-	08/12/98
GRADE OF UNTOL.DIM.M/CGC/M/F.AA0230208			WELDING A/B/C/D AA0621104			GAS CUTTING-T3 AA0621101			

50/ THE REST



TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397 AT THE PLACE INDICATED WITH **IN** →

REF.DRG.No.	BHARAT HEAVY ELECTRICALS LTD HARDWAR					
	DRN	NAME	SIGN	DATE	NO. OF VAR	
SIGN & DATE	CHD	RK	SD/-	08/10/98		
	APD	M SINGH	SD/-	11/12/98		
INVENTORY No.	DEPT. TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	N.T.S	1.6	0-135-01-01030		
	TITLE			DRAWING No.		
LIFTING EYE			4-135-01-01330			
THRI 108/44A			SHEET No. 1		No.OF SHEETS 1	

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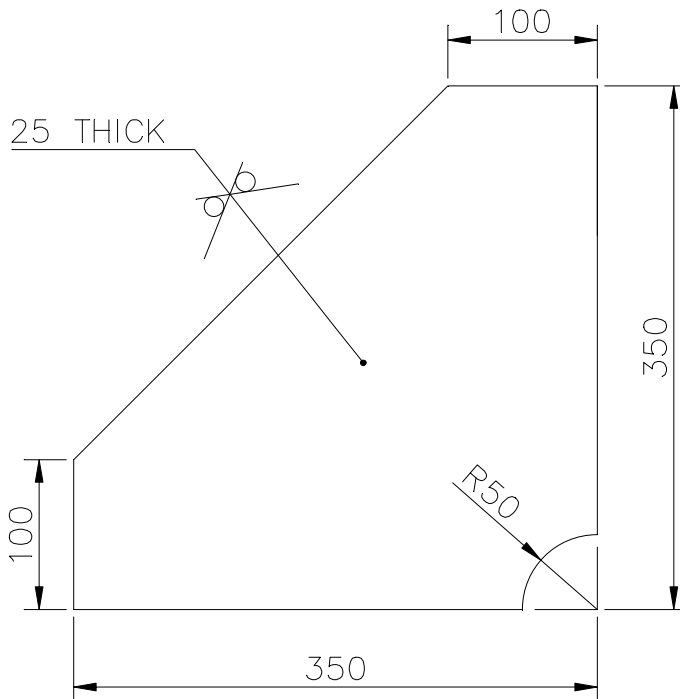
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	CBOM No. 01350101064		STATUS OF DRG
		CHECKED			CHECKED	AGREED DEPT.	NAME	SIGN
						WTX	AWTX	YSSAWTX
								DATE 30/05/2007

GRADE OF UNTOL.DIM.M/CG/M/F. AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

50 /  ALONG CONTOUR




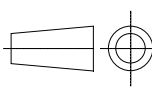
TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

NOTE: -

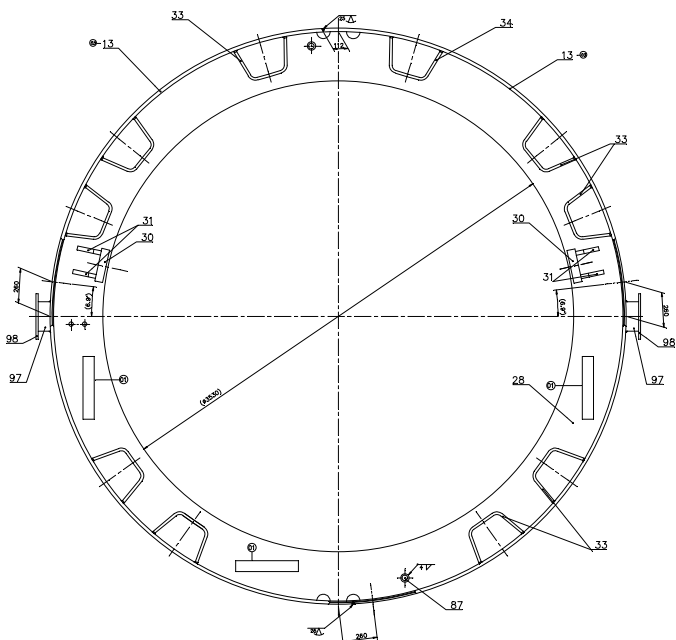
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24-0193-117740/056
REF.DRG.No.

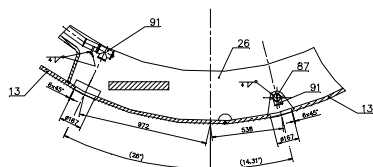
SIGN & DATE	 BHARAT HEAVY ELECTRICALS LTD HARDWAR		DRN	NAME	SIGN	DATE	NO. OF VAR
			CHD	STGEPK	STGEPK	30/05/2007	
			APD	STGEAM	STGEAM	30/05/2007	
INVENTORY No.	DEPT.TGE	 SCALE 1:5	WEIGHT(Kg)		REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133		17.5	01350101064		56	
	TITLE		DRAWING No.		41350101394		
		PLATE THDF 115/67		SHEET No. 1		No.OF SHEETS 1	

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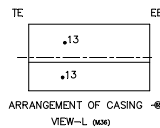
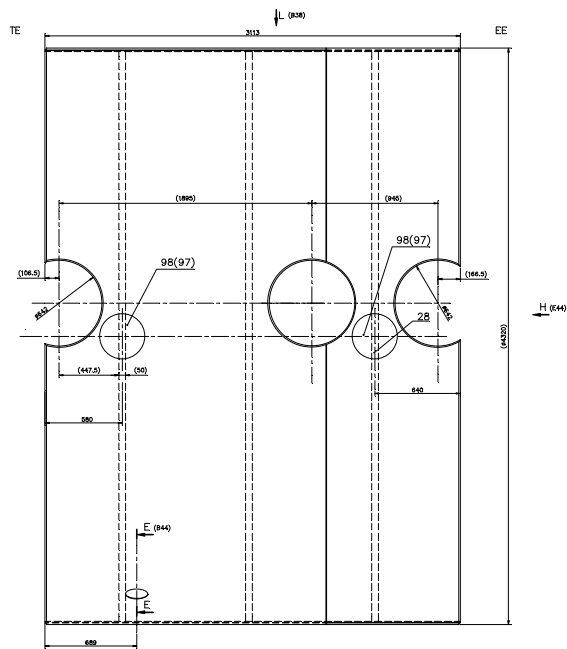
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VIEW-H (644)



SECTION E-E (648)

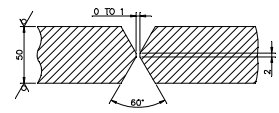
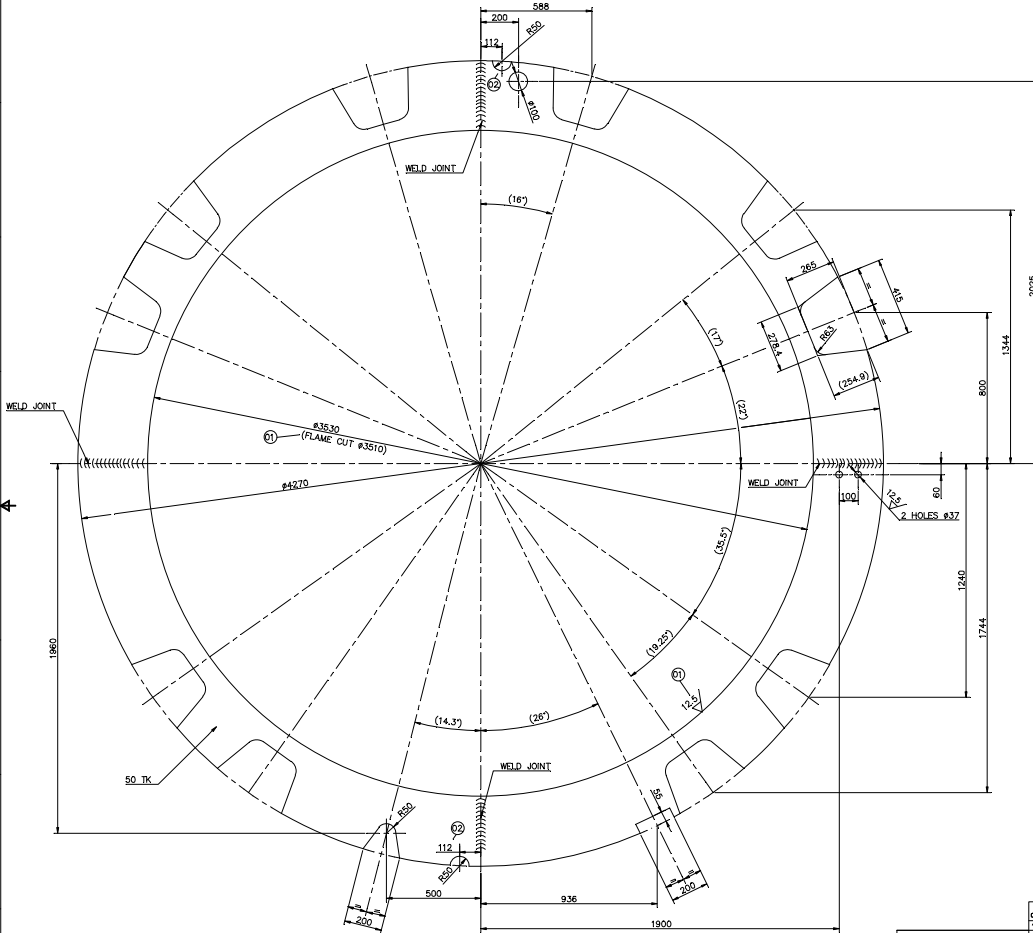


ARRANGEMENT OF CASING ->
VIEW-L (646)

DATE OF ISSUE: 11/01/2011	BY: S. S. SINGH	CHECKED: S. S. SINGH	APPROVED: S. S. SINGH	SCALE: 1:10	PROJECT NO: 16888	REV: 01350101064
NAME OF UNIT: THDF 125/67	TYPE OF PRODUCT: THDF 125/67	OR: THDF 125/67	NAME OF CUSTOMER/PROJECT: BHARAT HEAVY ELECTRICALS LTD. MAHARAJA	SCALE: 1:10	PROJECT NO: 16888	REV: 01350101064
REVISIONS:	REVISIONS:	REVISIONS:	REVISIONS:	REVISIONS:	REVISIONS:	REVISIONS:
1. CHANGE ZONE AS FOR DDC-17-F0089	2. CHANGE ZONE AS FOR DDC-16-F0084	3. CHANGE ZONE AS FOR DDC-12-F0384	4. CHANGE ZONE AS FOR DDC-11-F0384	5. CHANGE ZONE AS FOR DDC-11-F0384	6. CHANGE ZONE AS FOR DDC-11-F0384	7. CHANGE ZONE AS FOR DDC-11-F0384
STATOR FRAME (MIDDLE PART)				DRAWING NO: 01350101064		

1135010172

50 / THE REST



EDGE PREPARATION

TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397.
 2. STRAIGHTEN THE PLATE.
 3. TEST SCOPE ACCORDING TO HW0850199. CATEGORY OF SERVICE REQUIREMENT 1.
 4. GROUND FLUSH THE WELD SEAM.
 5. QUALITY GRADE AS PER HW0620099 BS
- ⑥- STRESS RELIEVING-TO BE DONE AFTER WELDING-AS PER HW0641099.

NOTE : THE SOFT COPY OF THIS DRAWING IS DRAWN TO THE SCALE 1:1

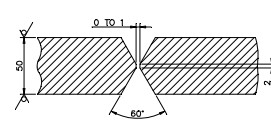
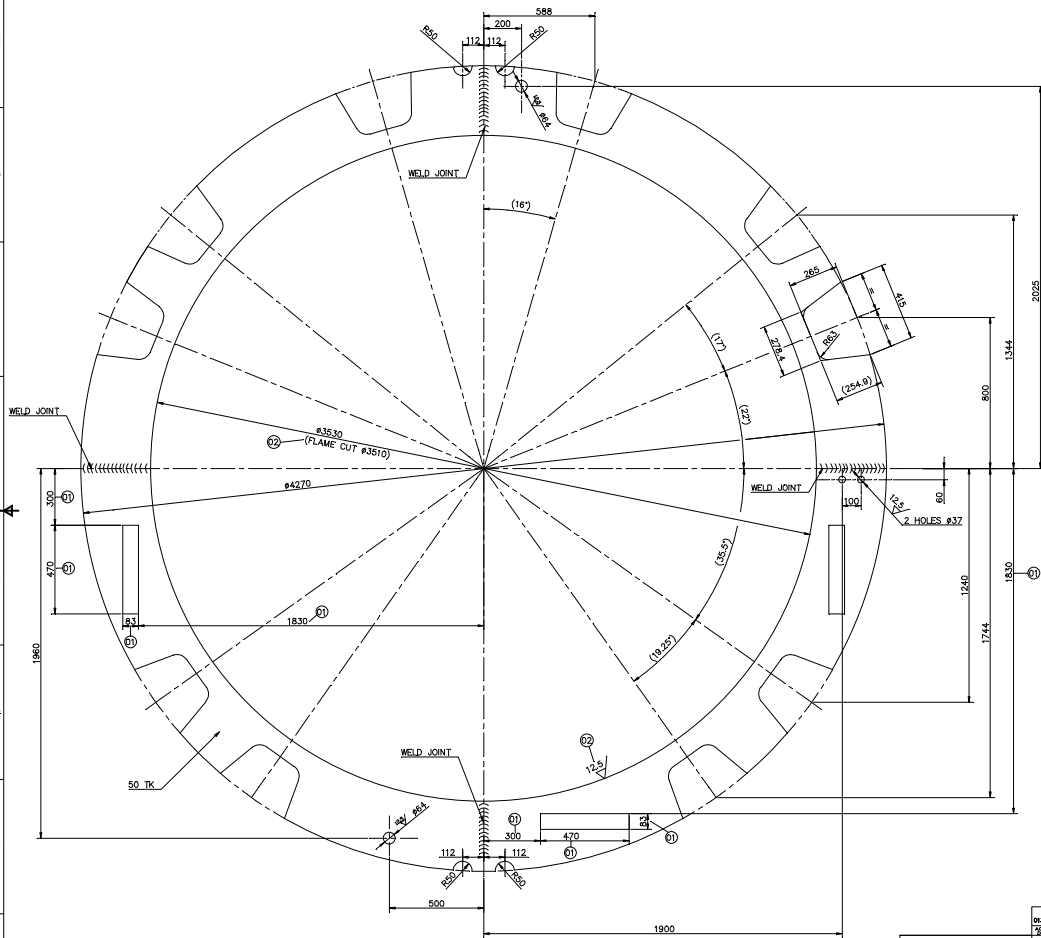
GRADE OF UNTOOL DML-		DATE		TYPE OF PRODUCT		THDF 125/67	
DATE	BY	DATE	BY	NAME	OR	NAME	DATE
12/05/2017	AK	02/03/2018		NAME OF CUSTOMER/ PROJECT			
WELDING-A/B/C/D-AA62104				BHARAT HEAVY ELECTRICALS LTD			
GAS CUTTING-T32AA082101				HARDWARE			
REVISIONS				REVISIONS			
NO	DATE	BY	REASON	NO	DATE	BY	REASON
1	12/05/2017	AK	INITIAL	1	02/03/2018		
CHANGES DONE AS PER CHANGE ADVICE NO. TGE-17-FD099.				CHANGES DONE AS PER CHANGE ADVICE NO. TGE-12-FD332.			
SCALE: 1:10				WEIGHT(KG): 1408.6			
DRAWING NO. 11350101067				ITEM NO. 28			
TITLE: INNER WALL				DRAWING NO. 11350101072			
SHEET NO. 1				NO. OF SHEETS 1			

11350101072

SIZE A1

11350101073

50 / THE REST



EDGE PREPARATION

TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397.
2. STRAIGHTEN THE PLATE.
3. TEST SCOPE ACCORDING TO HW0850199. CATEGORY OF SERVICE REQUIREMENT 1.
4. GROUND FLUSH THE WELD SEAM.
5. QUALITY GRADE AS PER HW0620099 BS

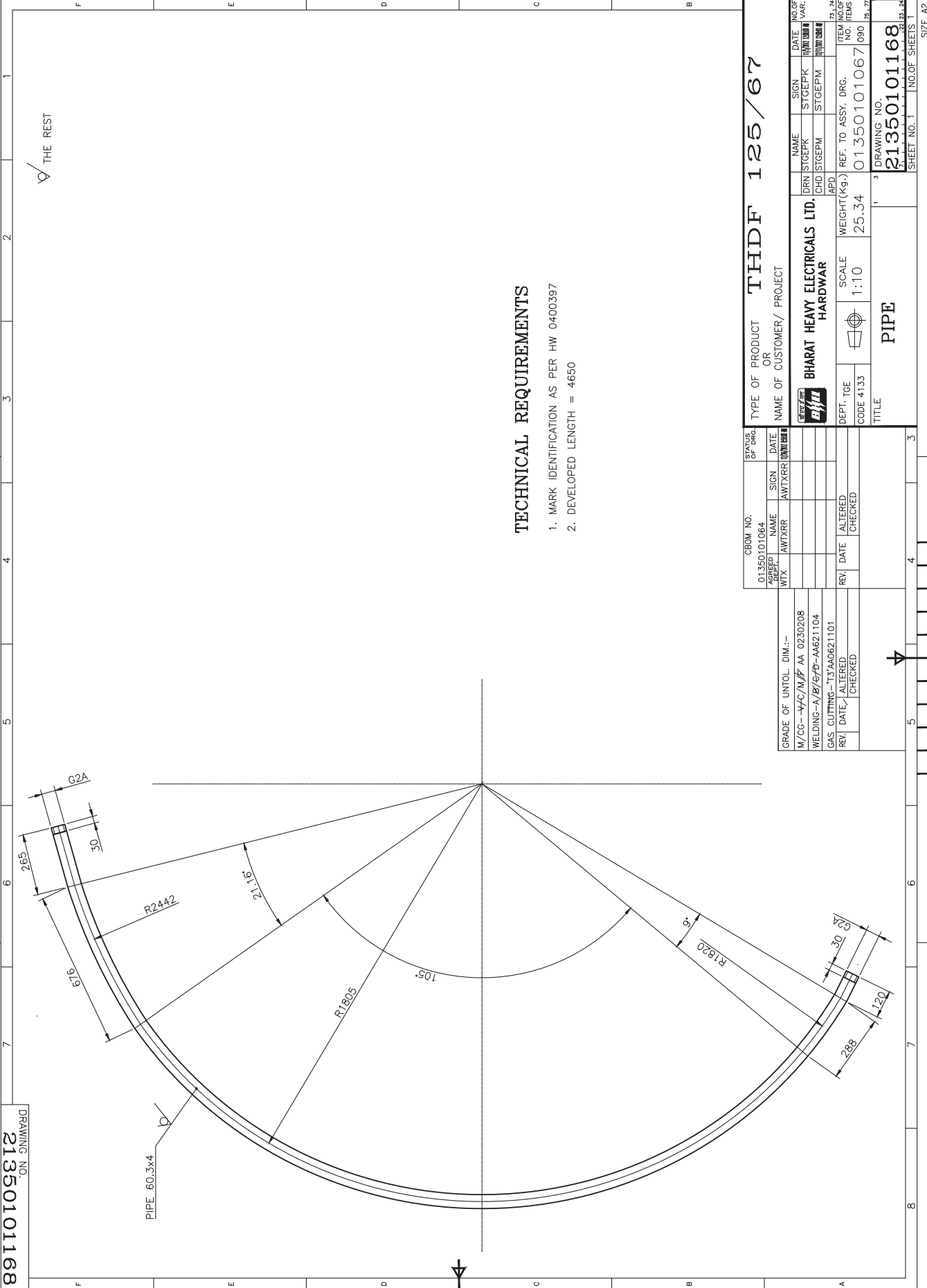
NOTE : THE SOFT COPY OF THIS DRAWING IS DRAWN TO THE SCALE 1:1

GRADE OF UNTOL. DML:-		DATE		TYPE OF PRODUCT		THDF 125/67	
DATE	BY	DATE	BY	NAME	OR	NAME	OR
14/03/2017	AK	03/03/2018		NAME OF CUSTOMER/ PROJECT			
WELDING - V/B/C/B/A-A621104				BHARAT HEAVY ELECTRICALS LTD			
GAS CUTTING - T32A0821101				HARDWARE			
REVISIONS				REVISIONS			
NO.	DATE	ALTERED BY	APPROVED BY	NO.	DATE	ALTERED BY	APPROVED BY
01	14/03/2017	AK		01	14/03/2017	AK	
CHANGES DONE AS PER CHANGE ADVISE NO. TGE-12-F0332				CHANGES DONE AS PER CHANGE ADVISE NO. TGE-11-F0384			
SCALE: 1:10				WEIGHT (KG): 1416.7			
REF: TGE CORE 4133				REF: TO ASSY. DPC: 01350101067			
TITLE: INNER WALL				DRAWING NO: 11350101073			
SHEET NO. 1				NO. OF SHEETS: 1			

11350101073

SIZE A1

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm)



TECHNICAL REQUIREMENTS

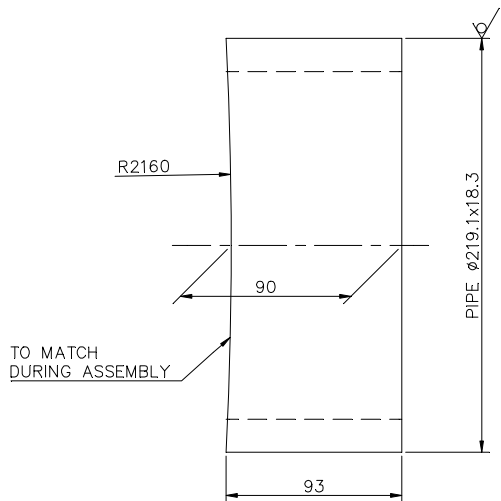
1. MARK IDENTIFICATION AS PER HW 0400397
2. DEVELOPED LENGTH = 4650

CBOM NO. 01350101064	REV. DRG. SF	TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT	THDF 125/67	
APPROVED WTX	SIGN AWTXRR	DATE	NAME CHD	STAGE STGPEM
GRADE OF UNTOL. DIM.:- M/CS--44C/M/P AA 0230208	REV. DATE	ALTERED	DRN STGEPK	STGEPK
WELDING--A/B7/G/P--A621104	REV. DATE	CHECKED	CHD STGEPM	STGEPM
GAS CUTTING--T3AA0621101	REV. DATE	CHECKED	APD	STGEPM
REV. DATE	ALTERED	CHECKED	REF. TO ASSY. DRG.	ITEM NO. OF NO. ITEMS
			SCALE	REF. TO ASSY. DRG.
			1:10	01350101067
			WEIGHT(Kg)	090
			CODE 4133	76.77
			TITLE	
			PIPE	
			DRAWING NO.	
			21350101168	
			SHEET NO. 1	NO. OF SHEETS 1
				NO. OF SHEETS 1
				NO. OF SHEETS 1

DRAWING NO.
21350101168

DRAWING NO. 31350101438

50/ ALONG CONTOUR



TECHNICAL REQUIREMENT
1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

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24-0193-126650/097
REF. DRG NO. KIU
SIGN & DATE
INVENTORY NO.

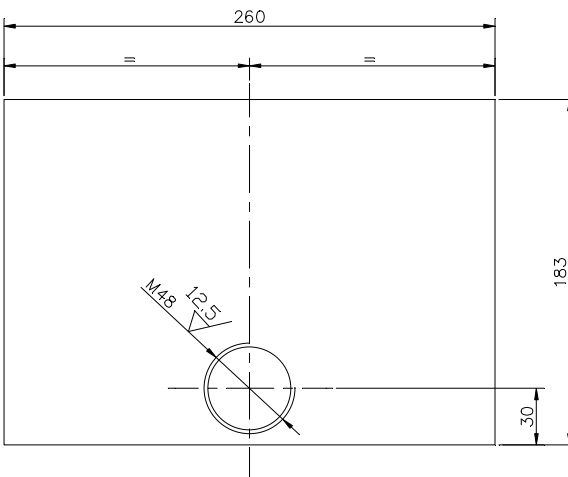
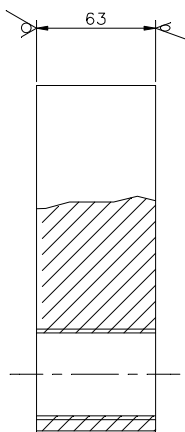
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67					
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO. OF			
WTX	AWTXTSC	AWTXTSC	27/11/2007	STGEPK	STGEPK	STGEPK	20/11/2007	VAR.			
GRADE OF UNTOL. DIM.: -				CHD	STGEAM	STGEAM	27/11/2007				
M/CG- V/G/M/F AA 0230208				APD	ATGERK	ATGERK	28/11/2007	73, 74			
WELDING - A/B/C/D - AA621104				DEPT. TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF	
GAS CUTTING - T3'AA0621101				CODE 4133	1:2	8.3	0-13501-01065	097	75, 77		
REV.	DATE	ALTERED	REV.	DATE	ALTERED	TITLE					
		CHECKED			CHECKED	PIPE					
DRAWING NO.				31350101438				SHEET NO. 1			
NO. OF SHEETS				1				NO. OF SHEETS			

31350101438

SIZE A3

DRAWING NO. 31350101440

50° ALONG CONTOUR



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24-0193-126650/030
REF. DRG NO. KWU

TECHNICAL REQUIREMENT

- 1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

NOTE: -

THE SOFT COPY OF THIS DRAWING IS DRAWN TO SCALE 1:1

INVENTORY NO. SIGN & DATE

CBOM NO. 01350101064		STATUS OF DRG.	
AGREED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
GRADE OF UNTOL. DIM.: -			
M/CG- V/e/M/P AA 0230208			
WELDING A/B/C/D-AA621104			
GAS CUTTING-T3'AA0621101			
REV.	DATE	ALTERED	CHECKED

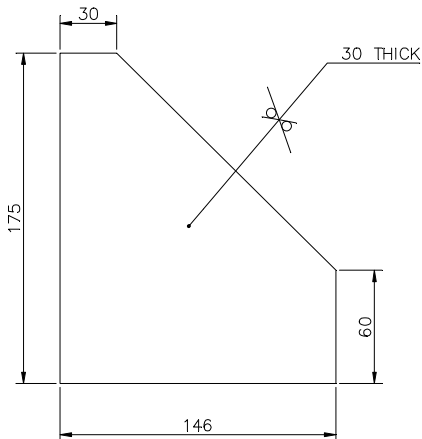
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	NAME	SIGN	DATE	NO. OF VAR.
	CHD	STGEPK	STGEPK	20/11/2007	
	APD	STGEAM	STGEAM	27/11/2007	
DEPT. TGE	SCALE	WEIGHT(K.g.)	REF. TO ASSY. DRG.		
CODE 4133	1:2	22.6	0-13501-01065	ITEM NO.	NO. OF ITEMS
TITLE			DRAWING NO.		
PLATE			31350101440		
			SHEET NO.1 NO.OF SHEETS 1		

31350101440

SIZE A3

DRAWING NO. 31350101443

50/ ALONG CONTOUR



TECHNICAL REQUIREMENT
1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

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DRAWN TO SCALE 1:1

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 24-0193-115765/031
 REF. DRG NO. XWU
 SIGN & DATE
 INVENTORY NO.

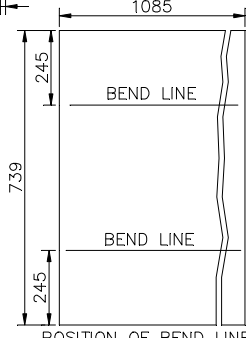
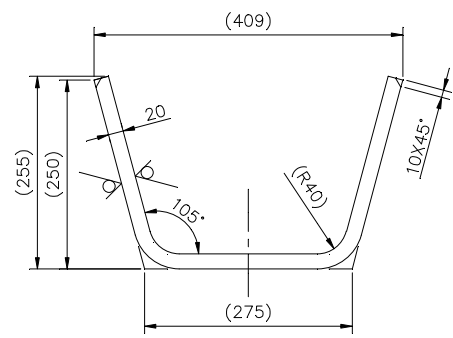
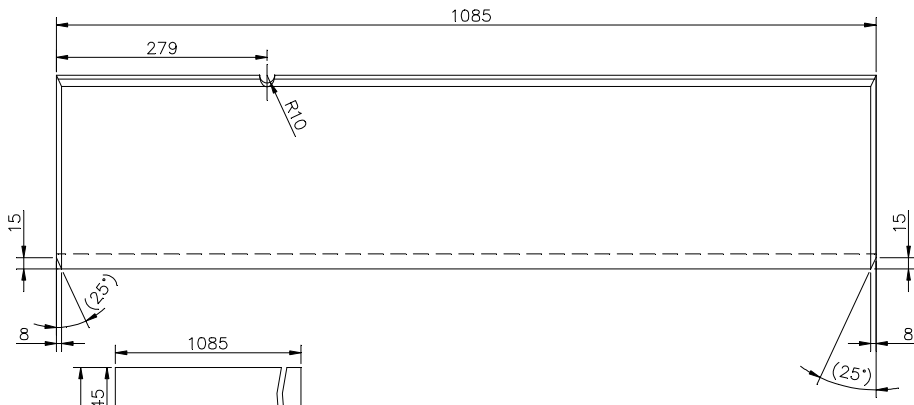
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67				
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO.OF		
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEPK	STGEPK	20/11/2007	VAR.		
GRADE OF UNTOL. DIM.: -				APD	STGEAM	STGEAM	27/11/2007			
M/CG- V/C/M/F AA 0230208				ATGERK	ATGERK	ATGERK	28/11/2007	73, 74		
WELDING - A/B/C/B - AA621104				DEPT. TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM	NO.OF
GAS CUTTING - T3'AA0621101				CODE 4133	1:2	4.4	013501-01065	NO.	ITEMS	
REV.	DATE	ALTERED	REV.	DATE	CHECKED	TITLE		DRAWING NO.		
		CHECKED				PLATE		31350101443		
								SHEET NO.1 NO.OF SHEETS 1		

31350101443

SIZE A3

DRAWING NO. 31350101454

50° ALONG CONTOUR



TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397
2. STRETCHED WIDTH = 739 MM

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 24-0194-128654/035 REF. DRG NO.
 SIGN & DATE
 INVENTORY NO.

GRADE OF UNTOL. DIM.: -		CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67					
M/CC	V/C/M/F AA	0230208	WTX	AWTXTSC	AWTXTSC	27/11/2007	BHARAT HEAVY ELECTRICALS LTD. HARDWAR		DRN	STGEPK	STGEPK	20/11/2007	NO.OF VAR.
WELDING		A/B/C/D	AA621104						CHD	STGEAM	STGEAM	27/11/2007	
GAS CUTTING		T3	AA0621101						APD	ATGERK	ATGERK	30/11/2007	73, 74
REV.	DATE	ALTERED	REV.	DATE	ALTERED	DEPT.	TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS	
		CHECKED			CHECKED	4133		1:5	124.4	01350101067	35	75, 77	
						TITLE		GAS CHANNEL		DRAWING NO.		31350101454	
										SHEET NO.1		NO.OF SHEETS 1	

31350101454

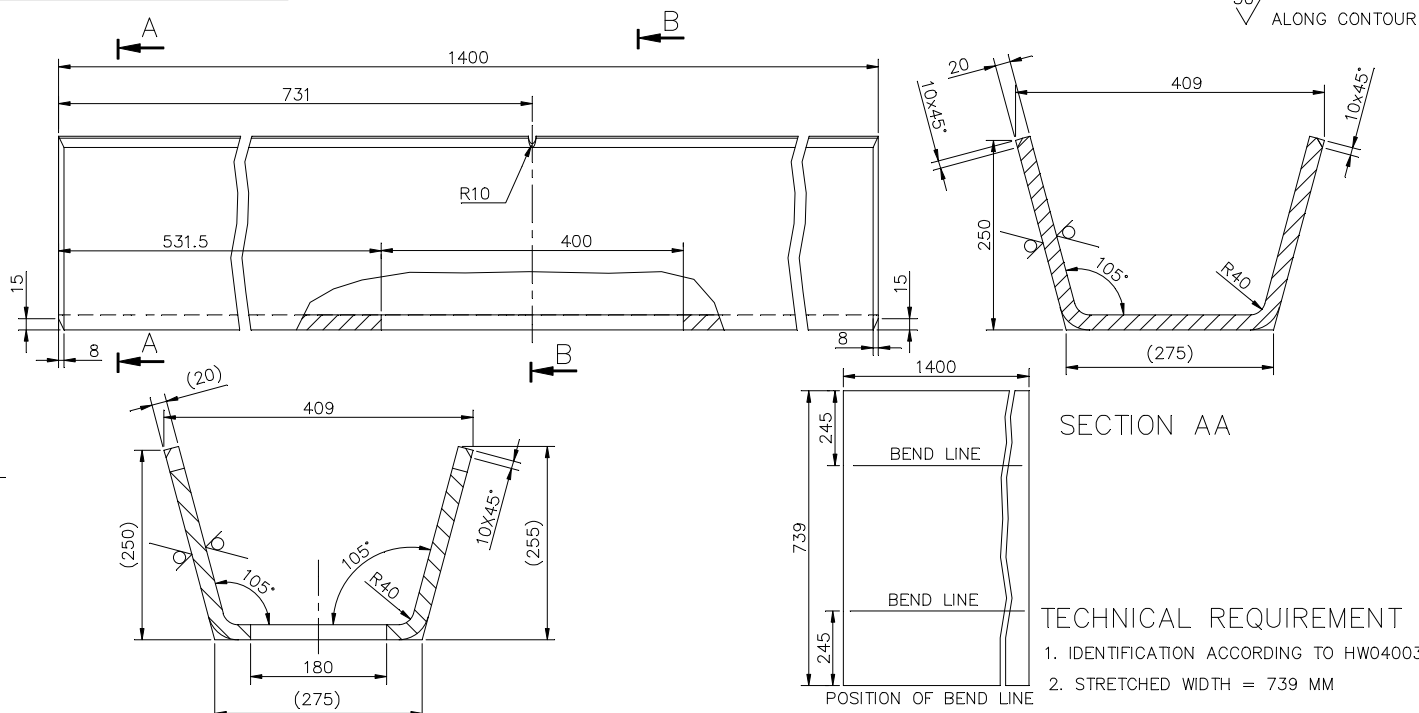
SIZE A3

DRAWING NO. 31350101455

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24-0194-128979/033
REF. DRG NO.

SIGN & DATE
INVENTORY NO.



CBOM NO. 01350101064		STATUS OF DRG.	
APPROVED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
GRADE OF UNTOL. DIM.: -			
M/CC - V/C/M/F AA 0230208			
WELDING - A/B/C/D - AA621104			
GAS CUTTING - T3'AA0621101			
REV. DATE	ALTERED	REV. DATE	ALTERED
	CHECKED		CHECKED

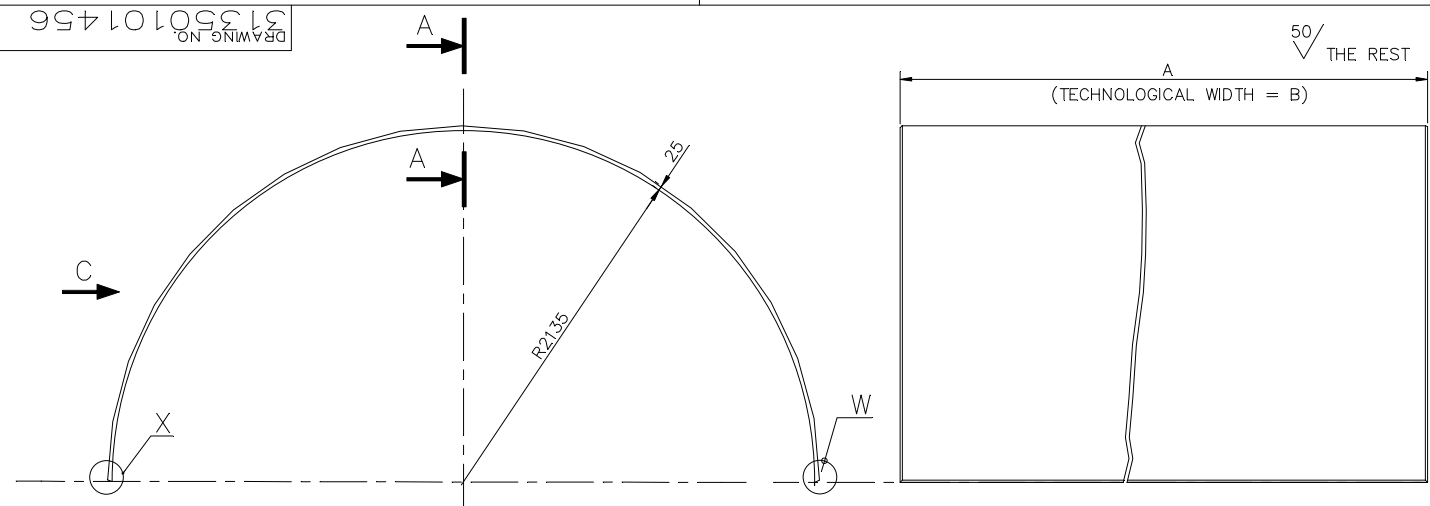
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	NAME	SIGN	DATE	NO. OF VAR.
	CHD	STGEPK	STGEPK	20/11/2007	
	APD	ATGERK	ATGERK	30/11/2007	73, 74
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
CODE 4133	1:5	149.5	01350101067	33	75, 77
TITLE		DRAWING NO.			
GAS CHANNEL		31350101455			
		SHEET NO. 1		NO. OF SHEETS 1	

31350101455

SIZE A3

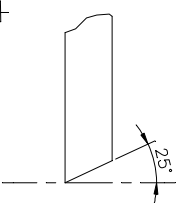
DRAWING NO. 31350101456

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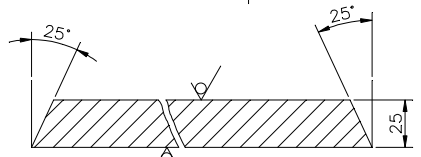


VIEW-C
TECHNICAL REQUIREMENTS
1. MARK IDENTIFICATION AS PER HW 0400397
2. DEVELOPEMENT LENGTH = 6747

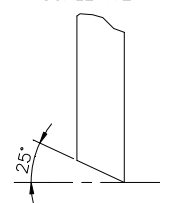
VAR	A	B	REF DRG NO.	ITEM NO	WEIGHT
00	3113	3119	01350101067	13	4100



DETAIL W
SCALE 1:2



SECTION AA
SCALE 1:2



DETAIL X
SCALE 1:2

CBOM NO. 01350101064		STATUS OF DRG.	
AGREED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
GRADE OF UNTOL. DIM.: -			
M/CG- V/a/M/v AA 0230208			
WELDING-X/B/E/D-AA621104			
GAS CUTTING-T3'AA0621101			
REV.	DATE	ALTERED	AMISHRA
	01 24.2.16	CHECKED	AWTTAL sd/-
CHANGES DONE AS PER CHANGE ADVICE NUMBER: TGE-16-F0064			

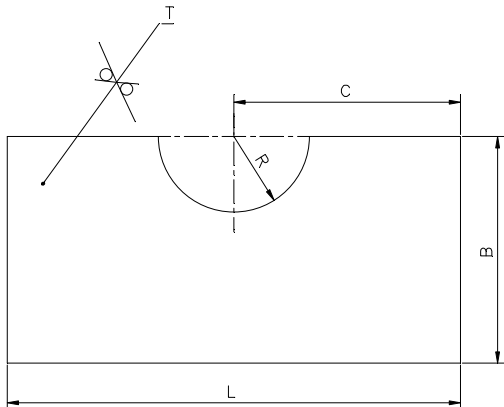
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	NAME	SIGN	DATE	NO.OF VAR.
	CHD	STGEPK	STGEPK	20/11/2007	
	APD	ATGERK	ATGERK	27/11/2007	
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
CODE 4133	1:20	SEE TABLE	01350101067	75	77
TITLE CASING			DRAWING NO. 31350101456		
			SHEET NO.1 NO.OF SHEETS 1		

31350101456

SIZE A3

DRAWING NO. 31350101457

50/ ALONG CONTOUR



VAR.	DIMENSIONS					REF.TO ASSY. DRG. NO.	ITEM NO.	WT.
	T	B	L	C	R			
00	10	60	120	60	31	0-135-01-01067	50	0.45
01	10	60	120	85	31	0-135-01-01067	51	0.45

TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397

EMT-300-014
REF. DRG NO.

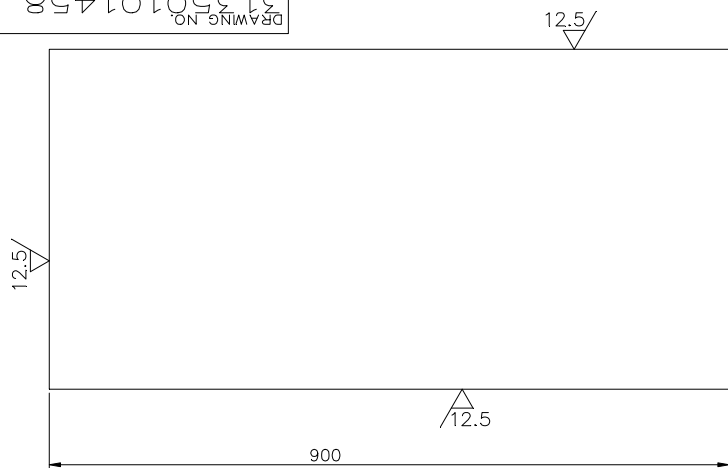
SIGN & DATE

INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67		
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO.OF VAR.
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEAM	STGEAM	27/11/2007	
GRADE OF UNTOL. DIM.: -				APD	ATGERK	ATGERK	30/11/2007	73, 74
M/CG- V/C/M/F AA 0230208				DEPT. TGE		SCALE		REF. TO ASSY. DRG.
WELDING-A/B/C/D-AA621104				CODE 4133		NTS		
GAS CUTTING-'T3'AA0621101				WEIGHT(Kg.)		0.45		ITEM NO. SEE TABLE
REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED	
REV. DATE				TITLE		DRAWING NO.		NO.OF ITEMS
REV. DATE				PLATE		31350101457		
REV. DATE				SHEET NO.1		NO.OF SHEETS 1		75, 77

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DRAWING NO. 31350101458



50° THE REST

TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397
2. THREE SAMPLES FROM THE PLATE TO BE TESTED FOR IMPACT STRENGTH BASED ON CHARPY 'V' NOTCH TEST. AVERAGE VALUE OF CHARPY IMPACT 'V' NOTCH SPECIMEN $\geq 27J$.
3. REDUCTION IN AREA OF THREE SAMPLES $\geq 15\%$ (BASED ON GAUGE LENGTH $l_0 = 5d$)
4. ULTRASONIC TEST TO BE CONDUCTED ON PARENT PLATE ACCORDING TO SEL 072-77. ACCEPTANCE CLASS=3. THE TEST SHALL BE CONDUCTED USING 200 MM GRID.
5. REST OF THE PROPERTIES OF THE PLATE SHALL COMPLY ACCORDING TO STANDARD AA10401.
6. BLANK TO BE STRESS RELIEVED AFTER FLAME CUTTING AS PER HW0641099.

NOTE: -

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24-0194-126654/061
KXW
REF. DRG NO.

SIGN & DATE

INVENTORY NO.

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67					
GRADE OF UNTOL. DIM.: -	WTX	AWTXTSC	AWTXTSC	DATE	27/11/2007	DRN	STGEPK	STGEPK	DATE	26/11/2007	NO.OF VAR.
M/CG- V/E/M/F AA 0230208						CHD	STGEAM	STGEAM	DATE	27/11/2007	
WELDING - A/B/C/D - AA621104						APD	ATGERK	ATGERK	DATE	30/11/2007	73, 74
GAS CUTTING - T3'AA0621101											NO.OF ITEMS
REV. DATE	ALTERED	REV. DATE	ALTERED	DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS		
	CHECKED		CHECKED	CODE 4133	1:5	200.3	01350101067	61	75, 77		
TITLE						PLATE		DRAWING NO.		31350101458	
								SHEET NO.1		NO.OF SHEETS 1	

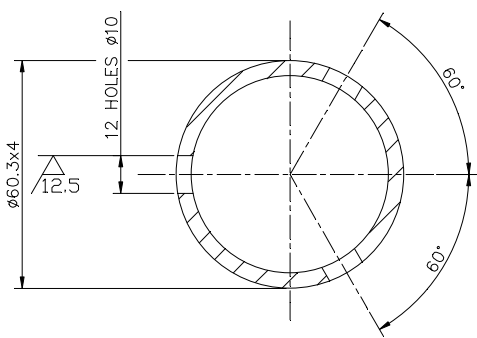
31350101458

SIZE A3

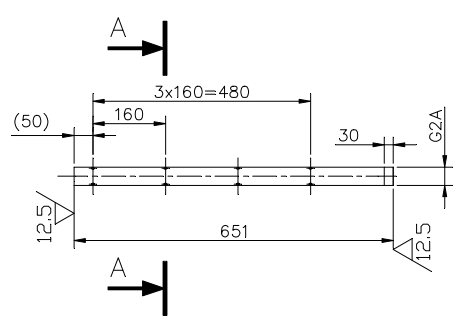
DRIVING NO. 31350101460

✓ THE REST

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SECTION AA
SCALE 1:1



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397

24-0194-126654/086
REF. DRG NO.

SIGN & DATE

CBOM NO. 01350101064		STATUS OF DRG.	
AGREED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
GRADE OF UNTOL. DIM.: -			
M/CG- V/e/M/P AA 0230208			
WELDING A/B/C/D-AA621104			
GAS CUTTING T3-AA0621101			
REV.	DATE	ALTERED	CHECKED

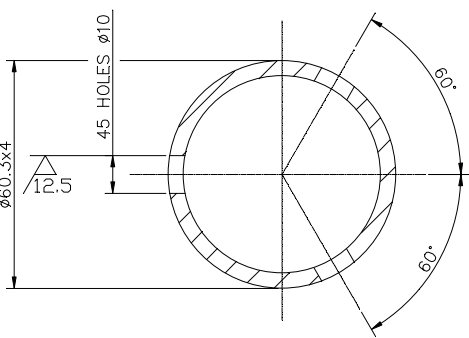
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
	DRN	NAME	SIGN	DATE	NO. OF VAR.
	CHD	STGEPK	STGEPK	21/11/2007	
	APD	ATGERK	ATGERK	30/11/2007	73, 74
DEPT. TGE	SCALE	WEIGHT(K.g.)	REF. TO ASSY. DRG.		
CODE 4133	NTS	3.6	01350101067		
TITLE			DRAWING NO.		
PIPE			31350101460		
			SHEET NO.1 NO.OF SHEETS 1		

FILE : 31350101460

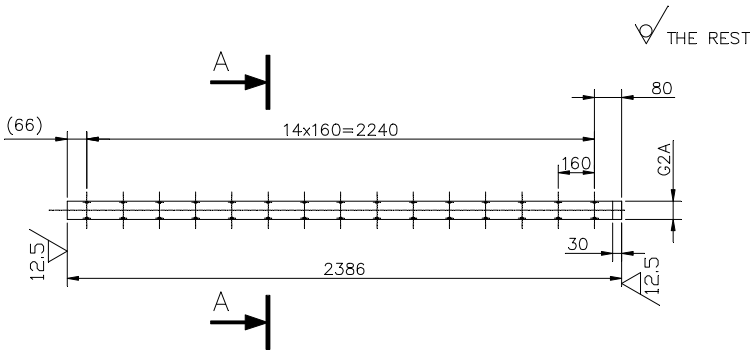
SIZE A3

DRAWING NO. 31350101461

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SECTION AA
SCALE 1:1



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397

24-0194-126654/087
REF. DRG NO.

SIGN & DATE

CBOM NO. 01350101064		STATUS OF DRG.	
AGREED	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
GRADE OF UNTOL. DIM.: -			
M/CG- V/e/M/P AA 0230208			
WELDING A/B/C/D-AA621104			
GAS CUTTING T3-AA0621101			
REV.	DATE	ALTERED	CHECKED

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
	DRN	NAME	SIGN	DATE	NO. OF VAR.
	CHD	STGEPK	STGEPK	21/11/2007	
	APD	ATGERK	ATGERK	30/11/2007	
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.		
CODE 4133	NTS	13.1	01350101067	ITEM NO. 87	NO. OF ITEMS 75, 77
TITLE			DRAWING NO.		
PIPE			31350101461		
			SHEET NO. 1 NO. OF SHEETS 1		

FILE : 31350101461

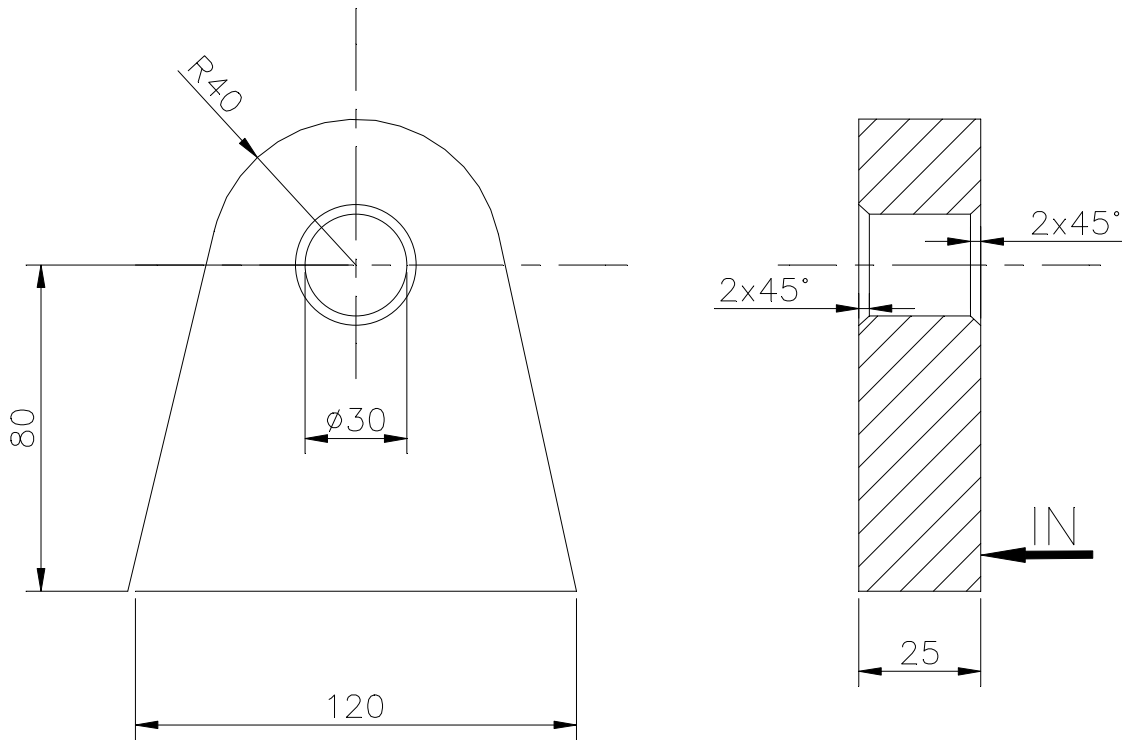
SIZE A3

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PRADEEP SD/-	CBOM No.	STATUS	
		CHECKED	01	31/08/09	CHECKED	AMIT SD/-	01350101030	OF DRG	
DRAWING SUPERSEDES WITHOUT ANY CHANGE						AGREED DEPT.	NAME	SIGN	DATE
C/A No-TGE-09-F0233						WT	CHAURASIA	SD/-	08/12/98
GRADE OF UNTOL.DIM.M/CGC/M/F.AA0230208			WELDING A/B/C/D AA0621104			GAS CUTTING-T3 AA0621101			

50/ THE REST

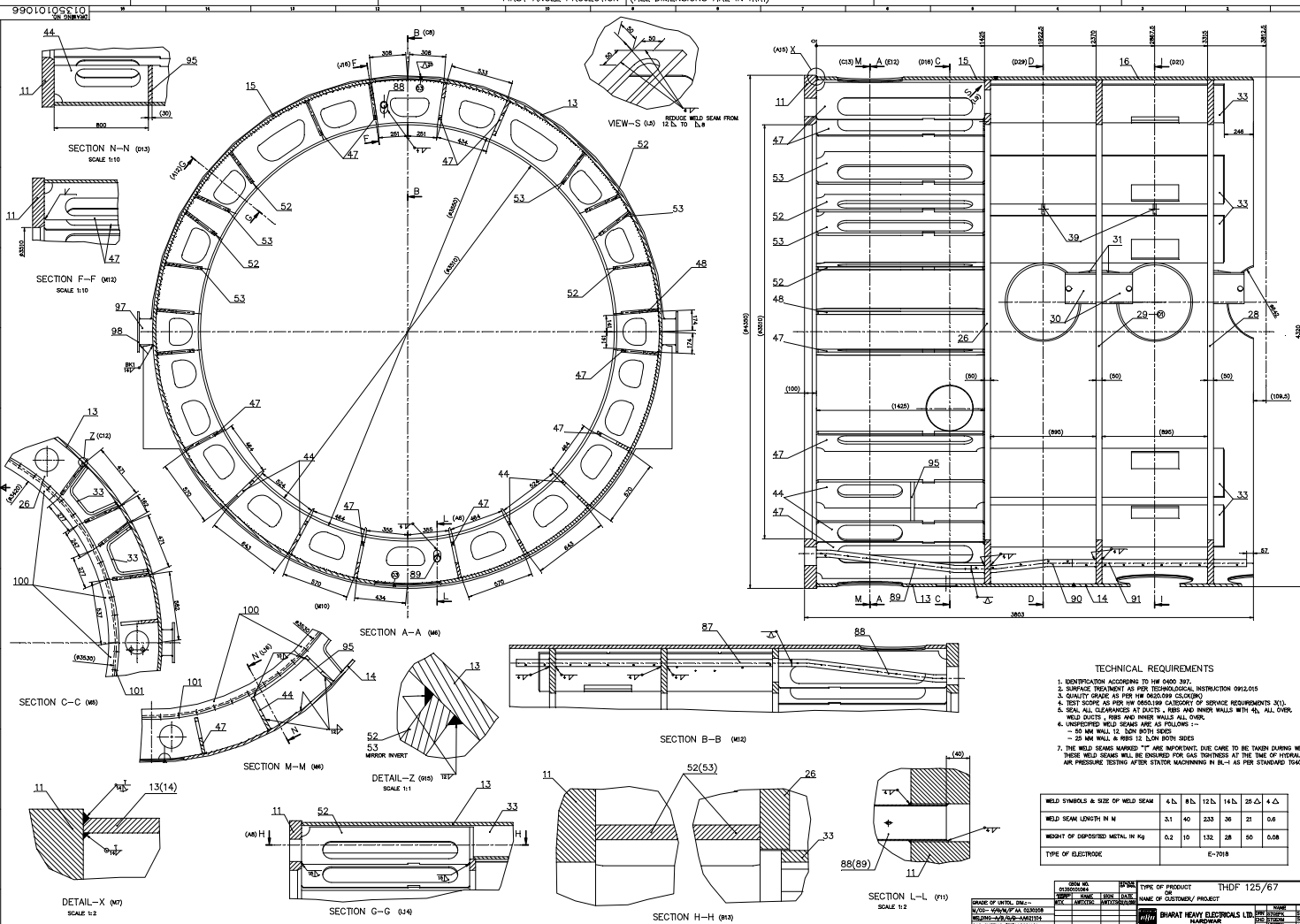


TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397 AT THE PLACE INDICATED WITH **IN**

REF.DRG.No.	BHARAT HEAVY ELECTRICALS LTD HARDWAR					
	DRN	NAME	SIGN	DATE	NO. OF VAR	
SIGN & DATE	CHD	RK	SD/-	08/10/98		
	APD	M SINGH	SD/-	11/12/98		
INVENTORY No.	DEPT. TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	N.T.S	1.6	0-135-01-01030	100	
	TITLE			DRAWING No.		
LIFTING EYE THRI 108/44A			4-135-01-01330			
			SHEET No. 1	No.OF SHEETS	1	

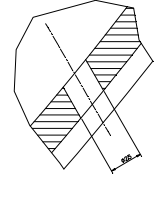
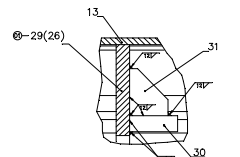
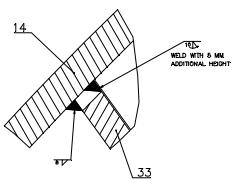
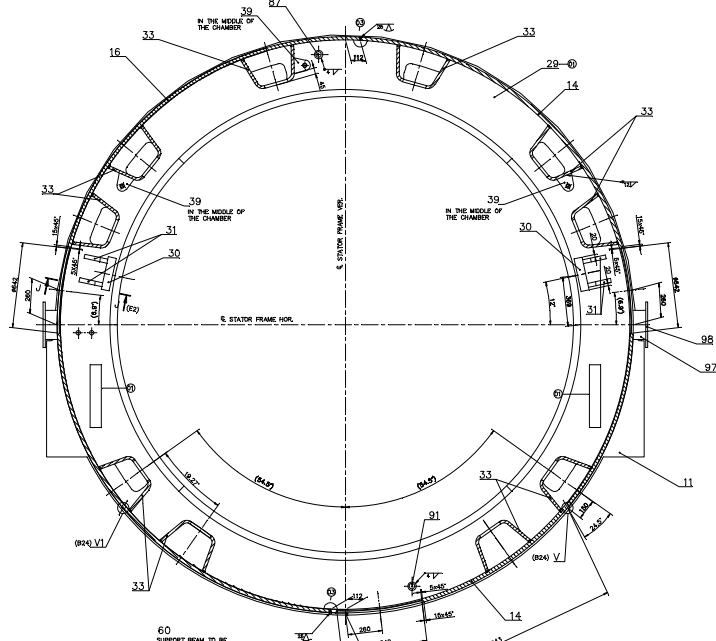
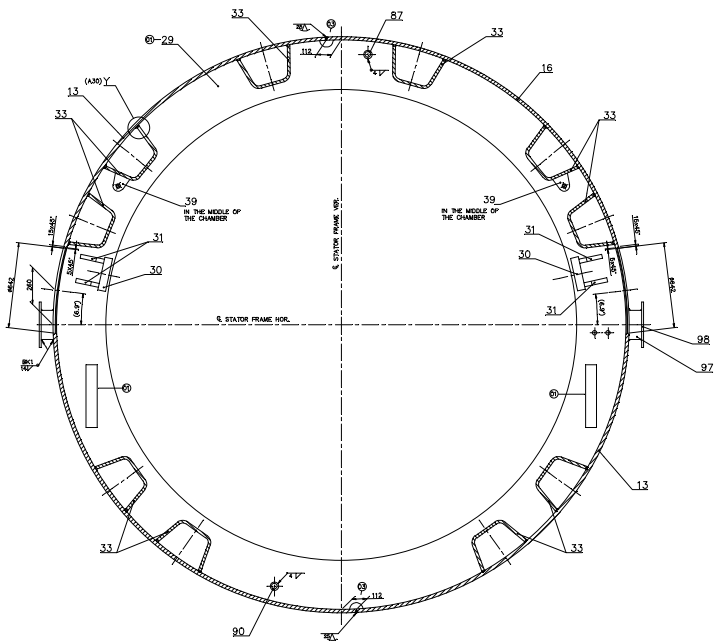
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- TECHNICAL REQUIREMENTS**
1. UNDERSPECIFICATION ACCORDING TO THE BOOK 397.
 2. SURFACE TREATMENT AS PER TECHNOLOGICAL INSTRUCTION 0912/015
 3. QUALITY GRADE AS PER THE INDIAN STANDARD.
 4. TEST SCOPE AS PER THE QUALITY CATEGORY OF SERVICE REQUIREMENTS 3(1).
 5. SEAL ALL CLEARANCES AT DUCTS, HOLES AND PUNCH WALLS WITH 45, ALL OVER.
 6. UNDESIRABLE WELD SEAMS ARE AS FOLLOWS:
 - 50 MM WALL & MORE 12.5MM BOTH SIDES
 - 25 MM WALL & MORE 12.5MM BOTH SIDES
 7. THE WELD SEAMS MARKED 'T' ARE IMPORTANT; DUE CARE TO BE TAKEN DURING WELDING AS THESE WELD SEAMS WILL BE DESIGNED FOR GAS TIGHTNESS AT THE TIME OF HYDRAULIC AND AIR PRESSURE TESTING AFTER STATOR MACHINING IN R.L. AS PER STANDARD TECHNOLOGY/STANDARD.

WELD SYMBOLS & SIZE OF WELD SEAM	4.5	8.5	12.5	14.5	25.0	4.0
WELD SEAM LENGTH IN M	3.1	4.0	23.0	3.0	21	0.6
WEIGHT OF DEPOSITED METAL IN Kg	0.2	1.0	13.2	2.8	5.0	0.08
TYPE OF ELECTRODE	E-7018					

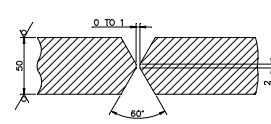
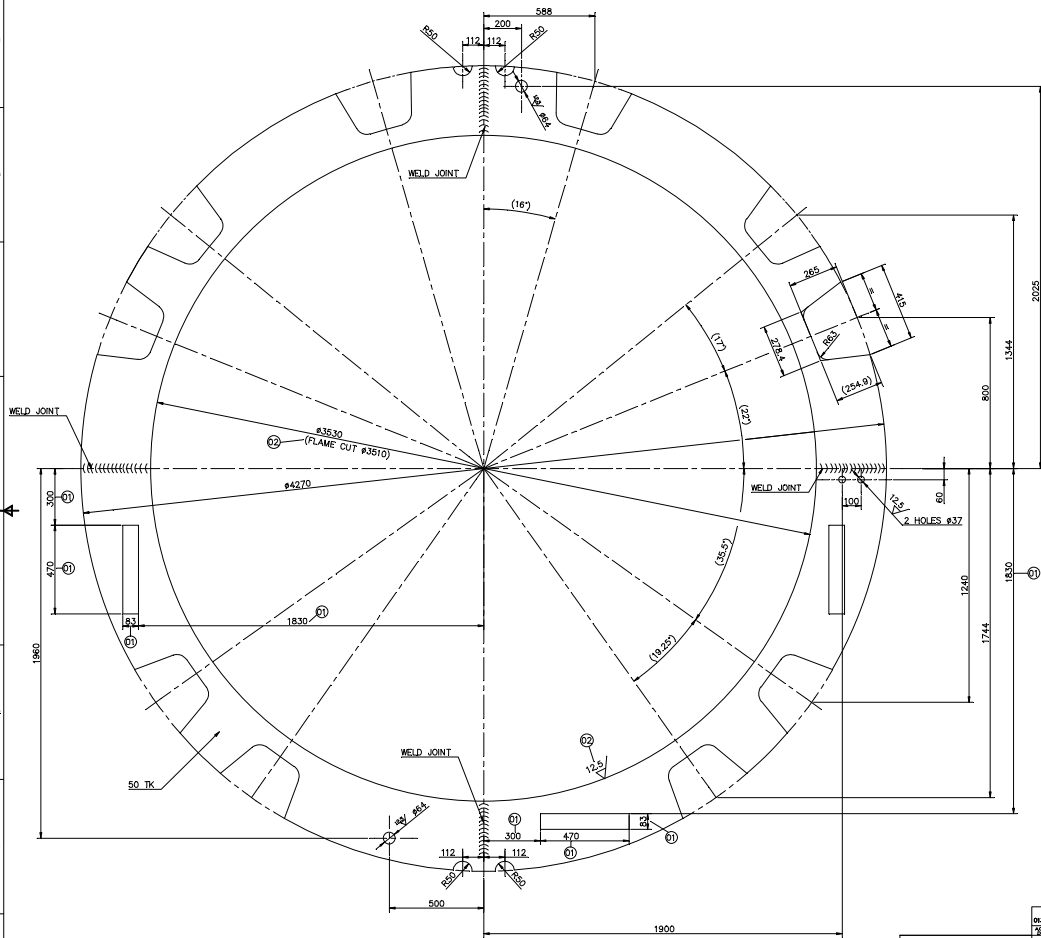
DATE OF ISSUE	BY	TYPE OF PRODUCT	THDF 125/67
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02/10/2010
03/10/2010
04/10/2010
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NO.	DATE	BY	CHKD.	APPD.	REVISION
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11350101073

50 / THE REST



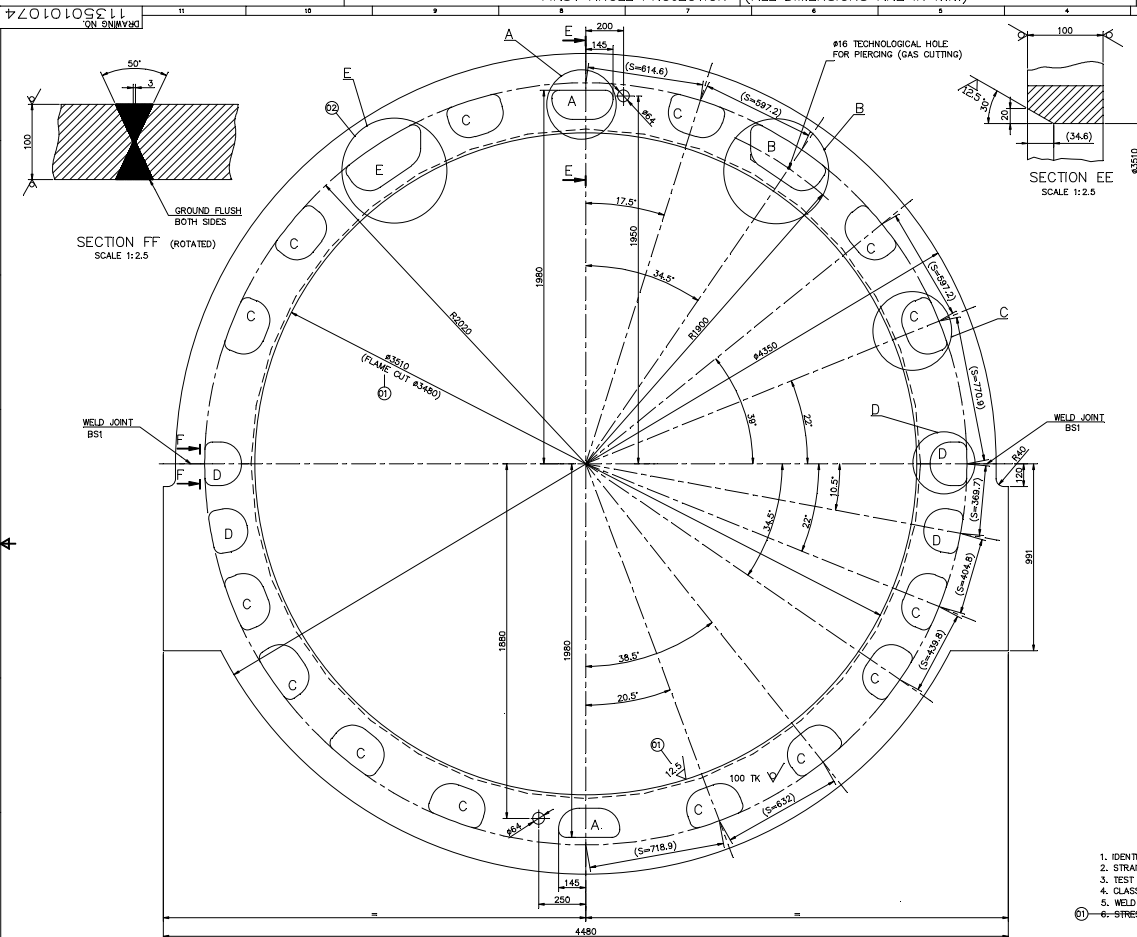
EDGE PREPARATION

TECHNICAL REQUIREMENTS

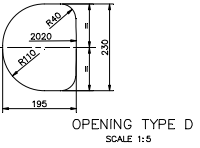
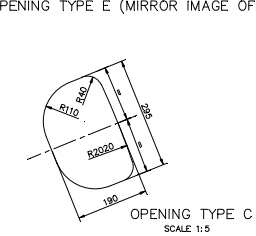
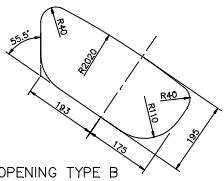
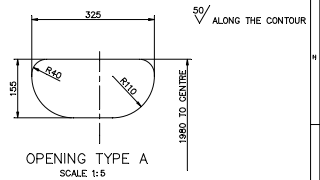
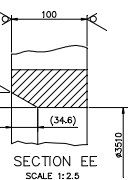
1. IDENTIFICATION ACCORDING TO HW0400397.
2. STRAIGHTEN THE PLATE.
3. TEST SCOPE ACCORDING TO HW0850199. CATEGORY OF SERVICE REQUIREMENT 1.
4. GROUND FLUSH THE WELD SEAM.
5. QUALITY GRADE AS PER HW0620099 BS

NOTE : THE SOFT COPY OF THIS DRAWING IS DRAWN TO THE SCALE 1:1

GRADE OF UNTOL. DML:-		DATE		TYPE OF PRODUCT		THDF 125/67	
DATE	BY	DATE	BY	NAME OF CUSTOMER/ PROJECT			
14/03/2017	AK	03/03/2018		BHARAT HEAVY ELECTRICALS LTD			
WELDING - A/B/C/D/E/A4621104				HARDWARE			
GAS CUTTING - T37A0621101				DRAWN BY			
REV DATE (ALIGNED P/ANAN SD)				REV DATE (ALIGNED P/ANAN SD)			
CHANGES DONE AS PER CHANGE ADVISE NO. TGE-12-F0332				CHANGES DONE AS PER CHANGE ADVISE NO. TGE-11-F0384			
SCALE		WEIGHT (KG)		REF. TO ASSY. DPC		ITER WSP	
1:10		1416.7		01350101067		28	
TITLE				DRAWING NO.			
INNER WALL				11350101073			
SHEET NO. 1				NO. OF SHEETS 1			
11350101073				SIZE A1			



SECTION FF (ROTATED) SCALE 1:2.5



- TECHNICAL REQUIREMENTS
- IDENTIFICATION ACCORDING TO HW0400397.
 - STRAIGHTEN THE PLATE AFTER WELDING.
 - TEST SCOPE ACCORDING TO HW0650199, CATEGORY OF SERVICE REQUIREMENT-1.
 - CLASSIFICATION OF WELD GROUPS ACCORDING TO HW 0620.099 BS.
 - WELD SEAM TO BE GROUND FLUSH.
 - STRESS RELIEVING TO BE DONE AFTER WELDING AS PER HW0641099.

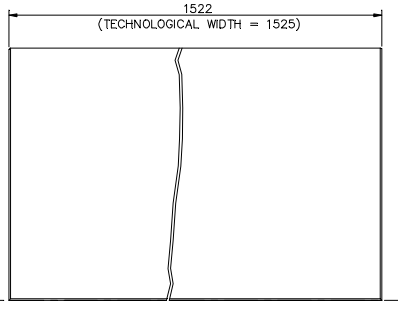
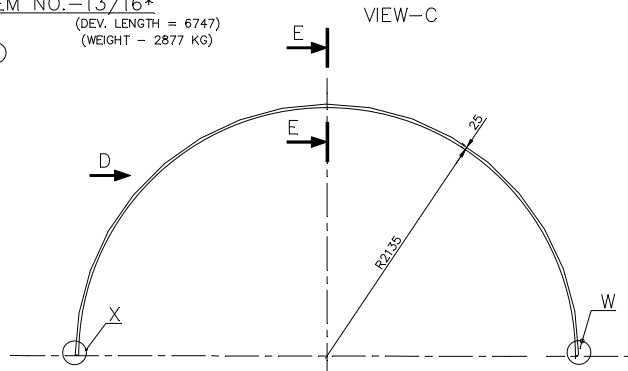
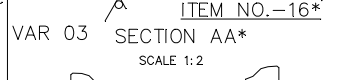
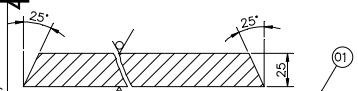
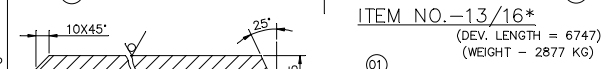
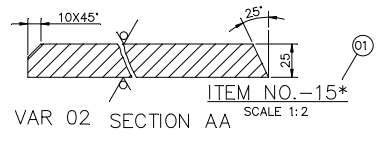
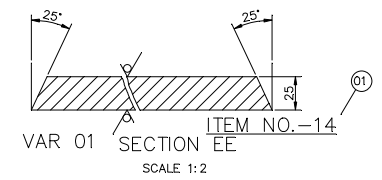
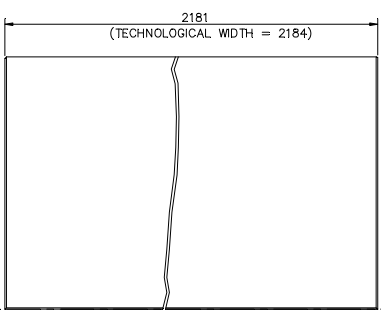
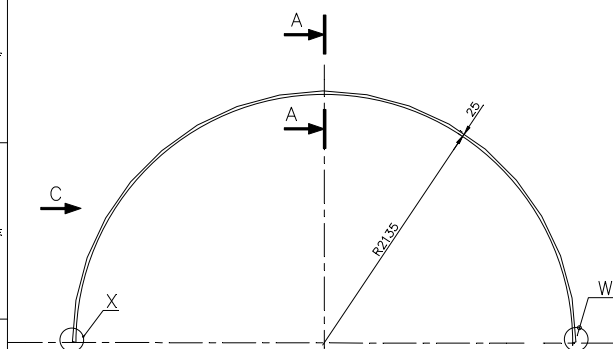
NOTE: -
THE SOFT COPY OF THIS
DRAWING IS DRAWN TO
SCALE 1:1

GRADE OF UNTOL. DML:-		DATE		TYPE OF PRODUCT		THDF 125/67	
DATE	BY	DATE	BY	NAME OF CUSTOMER/ PROJECT			
DATE	BY	DATE	BY	BHARAT HEAVY ELECTRICALS LTD			
WELDING - X/B/G/P-AA621104				HARDWARE			
GAS CUTTING - T3A/A0621101				DRAWN BY			
REV DATE				SCALE			
CHANGES DONE AS PER				WEIGHT (KG)			
CHANGE ADVICE NO.				3401			
TOE-13-F0055.				REF. TO ASSY. DRG.			
TGE-12-F0356				01350101066			
				DRAWING NO.			
				11350101074			
				SHEET NO.1			
				NO. OF SHEETS			
				1			
				SIZE A1			

FILE NAME : 11350101074

21350101136
DRAWING NO.

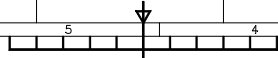
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TECHNICAL REQUIREMENTS

1. MARK IDENTIFICATION AS PER HW 0400397
2. DEVELOPEMENT LENGTH = 6747

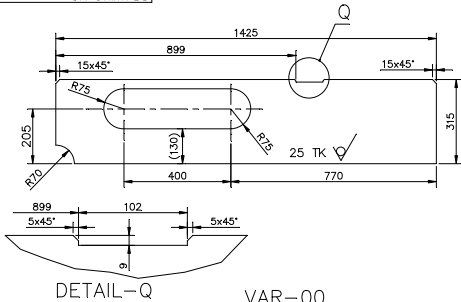
CBOM NO. 01350101064		STATUS P.DWG		TYPE OF PRODUCT THDF 125/67	
GRADE OF UNTOL DIM:--		WITX		NAME OF CUSTOMER/ PROJECT	
M/CG-V/E/N/F AA 0230208	WITX	AWT	TSC	BHARAT HEAVY ELECTRICALS LTD HARDWAR	
WELDING-X/B/E/B-AA621104	AWT	DATE	SIGN	NAME	SIGN
GAS CUTTINGS-T3*AA0621101	AWT	DATE	SIGN	DATE	SIGN
REV DATE ALTERED	REV DATE	ALTERED	DEEP	AK	SD
CHECKED	01/11/2020	CHECKED	AMIT	SD	SD
CHANGES DONE AS PER C/A NO. TGE-20-F0042		DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.
		CODE 4133	NTS	0	SEE ITEM
		TITLE	DRAWING NO.		NO. OF SHEETS
		CASING	21350101066		1
			SHEET NO. 1		NO. OF SHEETS 1



21350101136

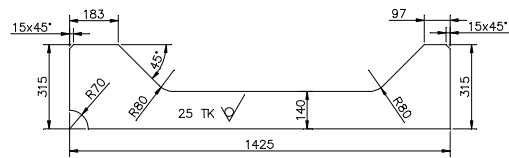
SIZE A2

21350101137
DRAWING NO.



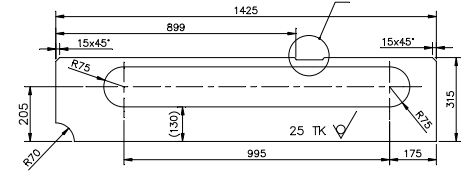
DETAIL-Q

VAR-00
(ITEM NO.- 44)
WEIGHT=71.9 Kg

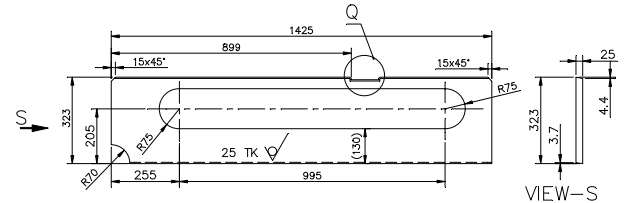


VAR-03
(ITEM NO.- 48)
WEIGHT= 54 Kg

50°
ALONG CONTOUR

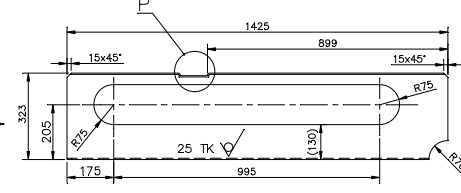


VAR-01
(ITEM NO.- 47)
WEIGHT= 54.4 Kg

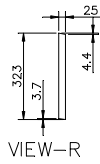


VIEW-S

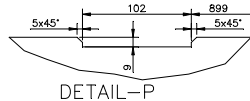
VAR-04
(ITEM NO.- 53)
WEIGHT=55.5 Kg



VAR-02
(ITEM NO.- 52)
WEIGHT=55.5 Kg



VIEW-R



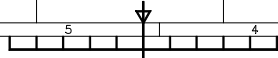
DETAIL-P

NOTE - THE SOFT COPY OF THIS DRAWING IS DRAWN TO THE SCALE 1:1

TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW0400397.

CBOM NO. 01350101064		STATUS P/000		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
GRADE OF UNTOL. DIM:--	WIX	AWT	TSC	SIGN	DATE	NAME	SIGN	DATE	NO. OF VAR.
M/GG-V/G/N/F-AA-0230208						DRN	STGEPK	27/11/2007	
WELDING-A/B/C/D-AA621104						CHD	STGEAM	27/11/2007	
GAS CUTTINGS-T3AA0621101						APD	ATGERK	28/11/2007	
REV. DATE	ALTERED	REV. DATE	ALTERED	DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO. OF SEE	ITEM NO. OF SEE
	CHECKED		CHECKED	CODE 4133	1:10	0 SEE ITEM	01350101066	22	23
				TITLE		DRAWING NO.		SHEET NO. 1 NO. OF SHEETS 1	
				PLATE		21350101137		SIZE A2	

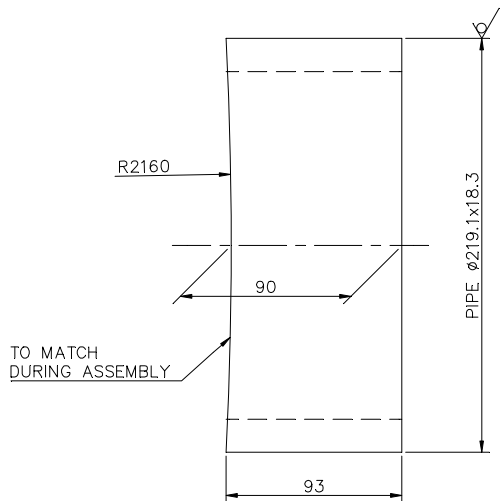


21350101137

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DRAWING NO. 31350101438

50/ ALONG CONTOUR



TECHNICAL REQUIREMENT
1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

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24-0193-126650/097
REF. DRG NO. KIU
SIGN & DATE
INVENTORY NO.

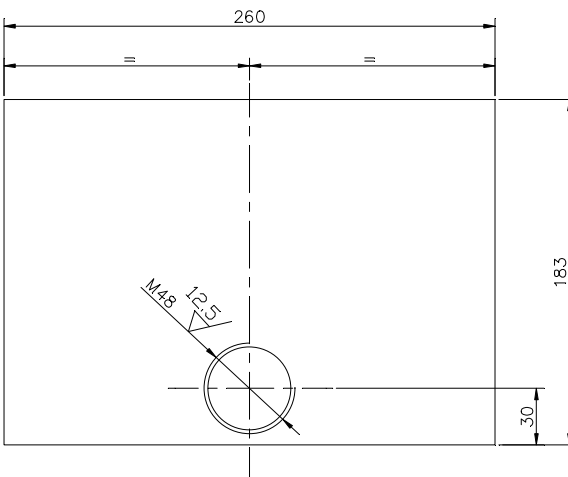
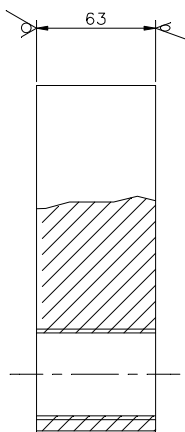
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67				
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO. OF		
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEPK	STGEPK	20/11/2007	VAR.		
GRADE OF UNTOL. DIM.: -				APD	STGEAM	STGEAM	27/11/2007			
M/CG- V/G/M/F AA 0230208				ATGERK	ATGERK	ATGERK	28/11/2007	73, 74		
WELDING - A/B/C/D - AA621104				DEPT. TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF
GAS CUTTING - T3'AA0621101				CODE 4133	1:2	8.3	0-13501-01065	097	75, 77	
REV.	DATE	ALTERED	REV.	DATE	ALTERED	TITLE		DRAWING NO.		
		CHECKED			CHECKED	PIPE		31350101438		
								SHEET NO. 1		NO. OF SHEETS 1

31350101438

SIZE A3

DRAWING NO. 31350101440

50° ALONG CONTOUR



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24-0193-126650/030
REF. DRG NO. KWU

TECHNICAL REQUIREMENT

- 1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

NOTE: -

THE SOFT COPY OF THIS DRAWING IS DRAWN TO SCALE 1:1

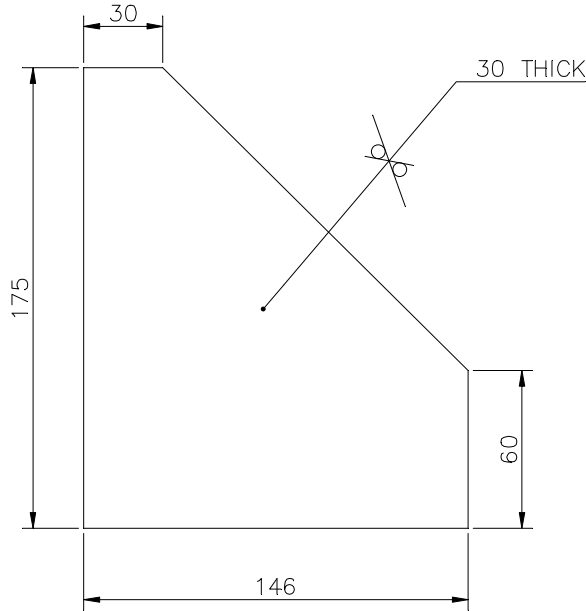
INVENTORY NO.		SIGN & DATE		CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR THDF 125/67					
GRADE OF UNTOL. DIM.: -				AGREED	NAME	SIGN	DATE	NAME OF CUSTOMER/ PROJECT					
M/CG- V/e/M/P AA 0230208				WTX	AWTXTSC	AWTXTSC	27/11/2007	BHARAT HEAVY ELECTRICALS LTD. HARDWAR					
WELDING A/B/C/D-AA621104								DRN	NAME	SIGN	DATE	NO. OF VAR.	
GAS CUTTING-T3'AA0621101								CHD	STGEPK	STGEPK	20/11/2007		
REV. DATE ALTERED				REV. DATE ALTERED				APD	STGEAM	STGEAM	27/11/2007		
CHECKED				CHECKED				DEPT. TGE		SCALE	WEIGHT(K.g.)	REF. TO ASSY. DRG.	ITEM NO. NO. OF ITEMS
								CODE 4133	1:2	22.6	0-13501-01065	030 75, 77	
								TITLE		DRAWING NO.			
								PLATE		31350101440			
										SHEET NO.1		NO.OF SHEETS 1	

31350101440

SIZE A3

DRAWING NO. 31350101443

50/√ ALONG CONTOUR



TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397.

NOTE: -

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24-0193-115765/031
KWU
REF. DRG NO.

SIGN & DATE

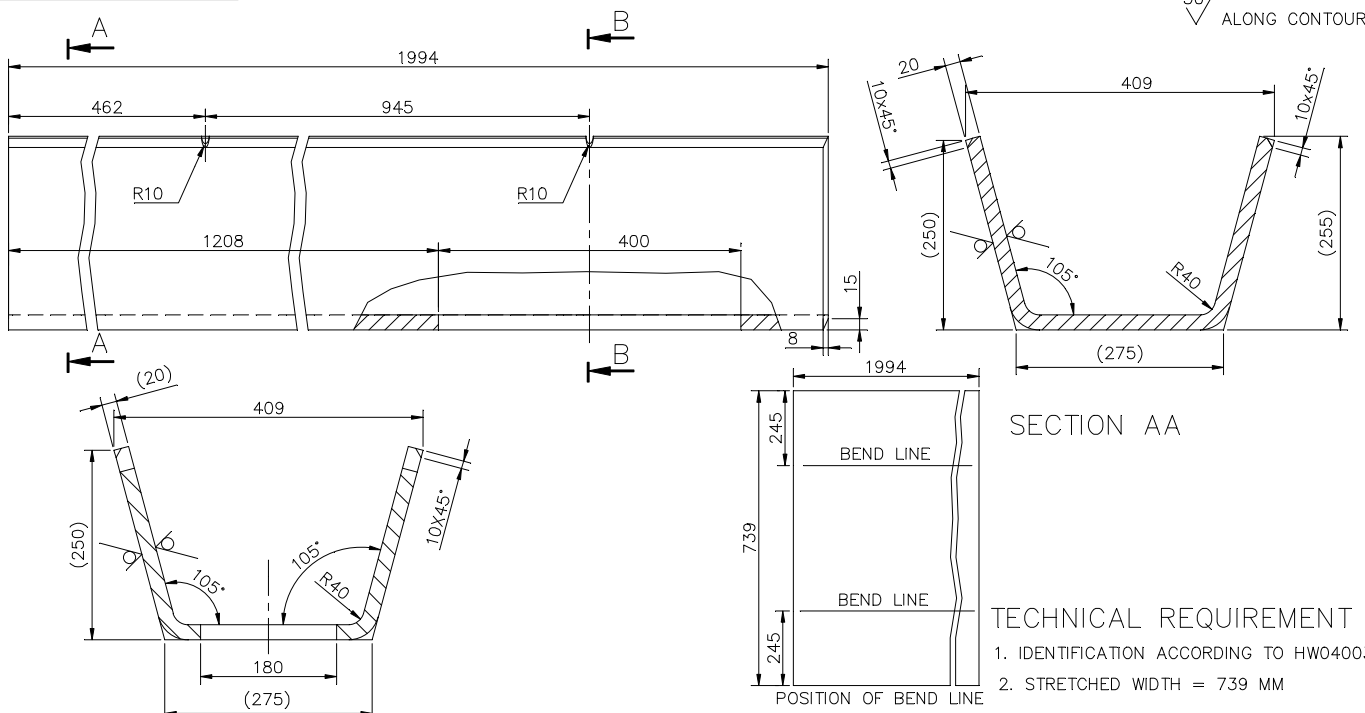
INVENTORY NO.

GRADE OF UNTOL. DIM.: -			CBOM NO. 01350101064		STATUS OF DRG.
M/CG- √/G/M/√ AA 0230208	WELDING-A/B/C/D-AA621104		GAS CUTTING-'T3'AA0621101		AGREED DEPT.
REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR		DRN	NAME STGEPK	SIGN STGEPK	DATE 20/11/2007
DEPT. TGE		CHD	STGEAM	STGEAM	27/11/2007
CODE 4133		APD	ATGERK	ATGERK	28/11/2007
TITLE PLATE		SCALE 1:2		WEIGHT(Kg.) 4.4	
REF. TO ASSY. DRG. 013501-01065		ITEM NO. 031		NO.OF ITEMS 75, 77	
DRAWING NO. 31350101443		SHEET NO.1		NO.OF SHEETS 1	

DRAWING NO. 31350101462

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INVENTORY NO. SIGN & DATE

24-0195-128983/33
REF. DRG NO.

GRADE OF UNTOL. DIM.: -		CBOM NO. 01350101064		STATUS OF DRG.	
M/CC	V/C/M/F AA	0230208	AWTX	AWTX	TSC
WELDING A/B/C/D-AA621104		AWTX		TSC	
GAS CUTTING-T3'AA0621101		AWTX		TSC	
REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED

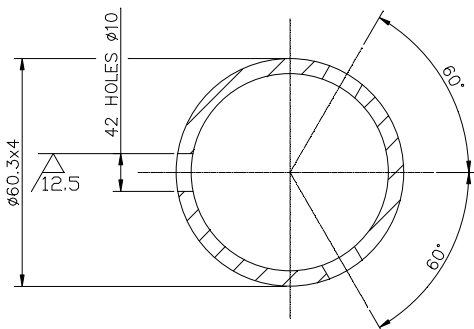
TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
DRN	STGEPK	STGEPK	STGEPK	STGEPK	21/11/2007
CHD	STGEAM	STGEAM	STGEAM	STGEAM	27/11/2007
APD	ATGERK	ATGERK	ATGERK	ATGERK	30/11/2007
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
CODE 4133	1:5	218.2	01350101066	33	75, 77
TITLE			DRAWING NO.		
GAS CHANNEL			31350101462		
			SHEET NO.1 NO.OF SHEETS 1		

FILE : 31350101462

SIZE A3

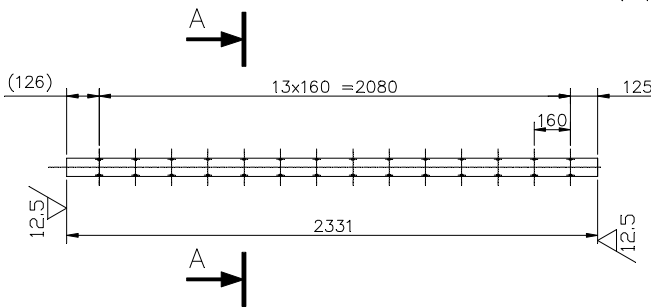
DRAWING NO. 31350101463

✓ THE REST



SECTION AA

SCALE 1:1



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397

24-0195-126658/87
REF. DRG NO.

SIGN & DATE

INVENTORY NO.

GRADE OF UNTOL. DIM.: -		CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67		
M/CG- V/e/M/P AA 0230208		WTX	AWTXTSC	SIGN	DATE	DRN	STGEPK	SIGN	DATE	NO.OF VAR.
WELDING A/B/C/D-AA621104					27/11/2007	CHD	STGEPK	STGEPK	21/11/2007	
GAS CUTTING-T3'AA0621101						APD	STGEPK	STGEPK	27/11/2007	
REV. DATE	ALTERED	REV. DATE	ALTERED	DEPT. TGE	SCALE	WEIGHT(Kg.)	ATGERK	ATGERK	30/11/2007	73, 74
	CHECKED		CHECKED	CODE 4133	NTS	12.8				75, 77
				TITLE		REF. TO ASSY. DRG.		ITEM NO.		NO.OF ITEMS
				PIPE		01350101066		87		
						DRAWING NO.		31350101463		
						SHEET NO.1		NO.OF SHEETS 1		

FILE : 31350101463

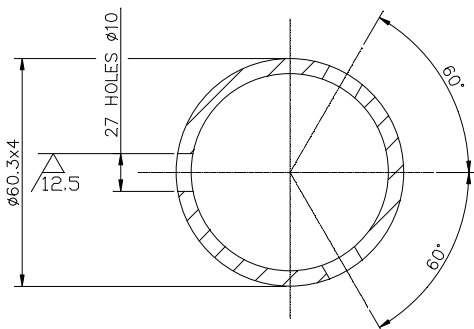
SIZE A3

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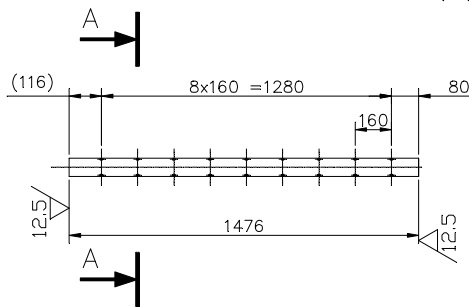
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DRAWING NO. 31350101464

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SECTION AA
SCALE 1:1



✓ THE REST

TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397

INVENTORY NO. SIGN & DATE 24-0195-126658/91 REF. DRG NO.

GRADE OF UNTOL. DIM.: -		CBOM NO. 01350101064		STATUS OF DRG.	
M/CG- V/e/M/P AA 0230208		AWTX	AWXTXSC	SIGN	DATE 27/11/2007
WELDING A/B/C/D-AA621104					
GAS CUTTING-T3'AA0621101					
REV. DATE	ALTERED	REV. DATE	ALTERED	CHECKED	CHECKED
	CHECKED		CHECKED		

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	STGEPK	STGEPK	DATE	NO.OF VAR.
	CHD	STGEAM	STGEAM	27/11/2007	
	APD	ATGERK	ATGERK	30/11/2007	73, 74
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
CODE 4133	NTS	8.1	01350101066	91	75, 77
TITLE			DRAWING NO.		
PIPE			31350101464		
			SHEET NO.1 NO.OF SHEETS 1		

FILE : 31350101464

SIZE A3

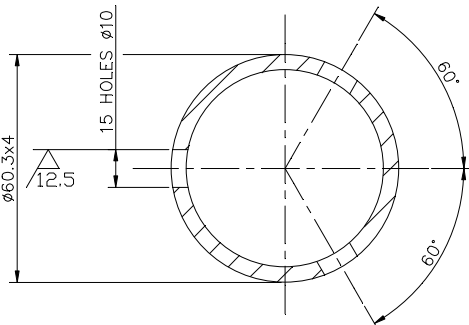
DRAWING NO. 31350101465

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24-0195-126658/90
REF. DRG NO.

SIGN & DATE

INVENTORY NO.



SECTION AA
SCALE 1:1



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397
2. DEVELOPED LENGTH = 946 MM

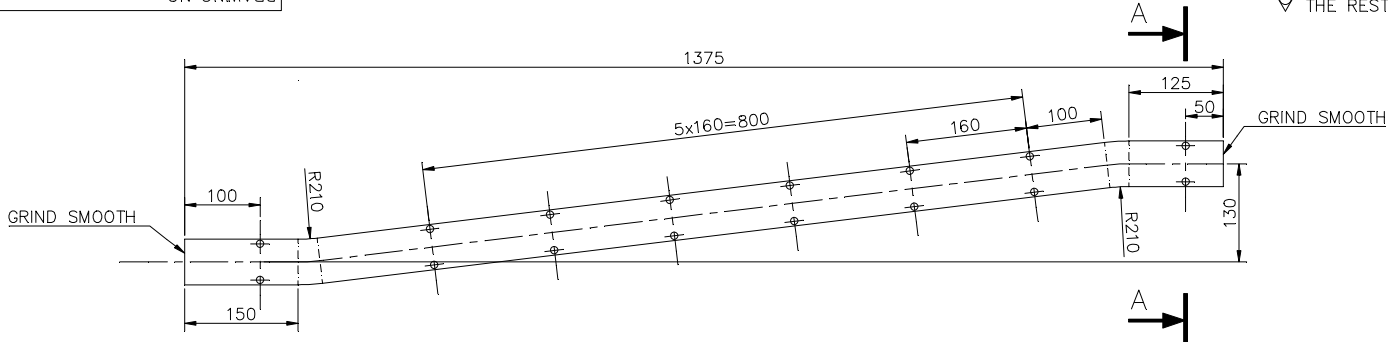
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67	
GRADE OF UNTOL. DIM.: -	WTX	AWT	XTSC	AWT	XTSC	27/11/2007	
M/CG- V/e/M/P AA 0230208							
WELDING A/B/C/D-AA621104							
GAS CUTTING-T3'AA0621101							
REV. DATE	ALTERED	REV. DATE	ALTERED	DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.
	CHECKED		CHECKED	CODE 4133	1:5	5.2	01350101066
				TITLE		DRAWING NO.	
				PIPE		31350101465	
						SHEET NO.1 NO.OF SHEETS 1	

FILE : 31350101465

SIZE A3

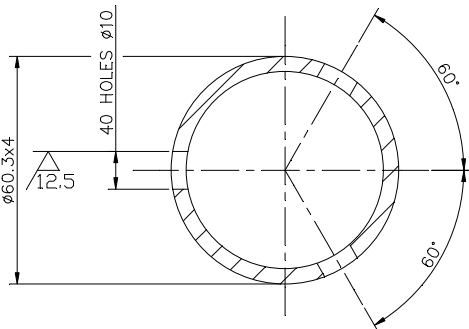
51350101466
DRAWING NO.

✓ THE REST



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397
2. DEVELOPED LENGTH = 1381 MM



SECTION AA

SCALE 1:1

GRADE OF UNTOL. DIM.: -	
M/CG- V/e/M/P AA	0230208
WELDING A/B/C/D-AA621104	
GAS CUTTING-T3'AA0621101	
REV. DATE	ALTERED
	CHECKED

CBOM NO. 01350101064		STATUS OF DRG.	
AGREED DESI.	NAME	SIGN	DATE
WTX	AWTXTSC	AWTXTSC	27/11/2007
REV. DATE	ALTERED	REV. DATE	ALTERED
	CHECKED		CHECKED

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67			
BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	NAME	SIGN	DATE	NO.OF VAR.
	CHD	STGEAM	STGEAM	27/11/2007	
	APD	ATGERK	ATGERK	30/11/2007	
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.		
CODE 4133	1:5	7.6	01350101066	ITEM NO. 89	NO.OF ITEMS 75, 77
TITLE			DRAWING NO.		
PIPE			31350101466		
			SHEET NO.1 NO.OF SHEETS 1		

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 24-0195-115775/89
 REF. DRG NO.
 SIGN & DATE
 INVENTORY NO.

FILE : 31350101466

SIZE A3

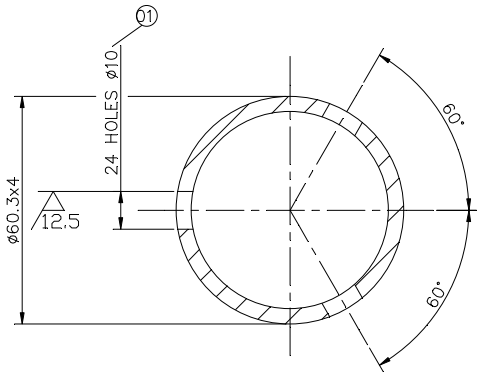
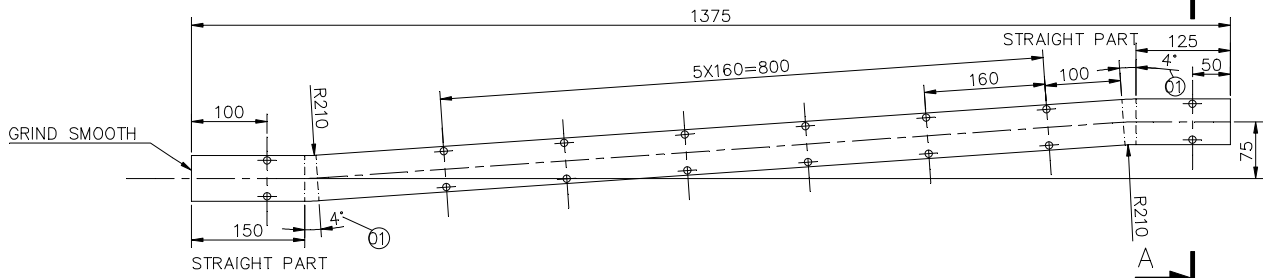
DRAWING NO. 31350101467

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24-0195-115775/88
REF. DRG NO.

SIGN & DATE

INVENTORY NO.



SECTION AA

SCALE 1:1

TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397
2. DEVELOPED LENGTH = 1378 MM

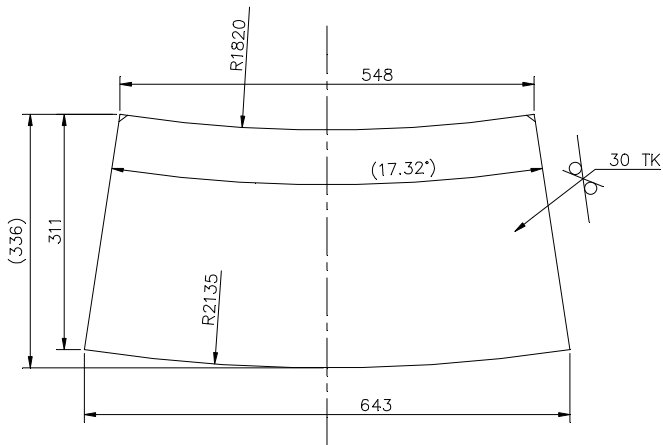
CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67				
AGREED	NAME	SIGN	DATE			DRN	NAME	SIGN	DATE	NO. OF
WTX	AWTXTSC	AWTXTSC	27/11/2007			CHD	STGEAM	STGEAM	27/11/2007	73, 74
GRADE OF UNTOL. DIM.: -				DEPT. TGE		APD	ATGERK	ATGERK	30/11/2007	75, 77
M/CG- V/e/M/P AA 0230208				SCALE 1:5		WEIGHT(Kg.) 7.6		REF. TO ASSY. DRG.		ITEM NO.
WELDING A/B/C/D-AA621104				CODE 4133				01350101066		88
GAS CUTTING-T3'AA0621101				TITLE		PIPE		DRAWING NO.		22, 23, 24
REV.	DATE	ALTERED		CHANGES DONE AS PER				31350101467		
		CHECKED		C/A NO. TGE-15-F0069				SHEET NO.1		NO. OF SHEETS 1

FILE : 31350101467

SIZE A3

DRAWING NO. 31350101468

✓ ALONG THE CONTOUR



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400.397

NOTE-

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24-0195-128983/95
REF. DRG NO.

INVENTORY NO. SIGN & DATE

CBOM NO. 01350101064		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		THDF 125/67		
AGREED	NAME	SIGN	DATE	DRN	NAME	SIGN	DATE	NO.OF VAR.
WTX	AWTXTSC	AWTXTSC	27/11/2007	CHD	STGEPK	STGEPK	21/11/2007	
GRADE OF UNTOL. DIM.: -				APD		ATGERK	ATGERK	30/11/2007
M/CG- V/e/M/P AA 0230208				DEPT. TGE		SCALE		WEIGHT(Kg.)
WELDING A/B/C/D-AA621104				CODE 4133		1:5		44.3
GAS CUTTING-T3'AA0621101				TITLE		REF. TO ASSY. DRG.		ITEM NO.
REV.	DATE	ALTERED	REV.	DATE	ALTERED	PLATE	01350101066	95
		CHECKED			CHECKED			
						DRAWING NO.		
						31350101468		
						SHEET NO.1		NO.OF SHEETS 1

FILE : 31350101468

SIZE A3

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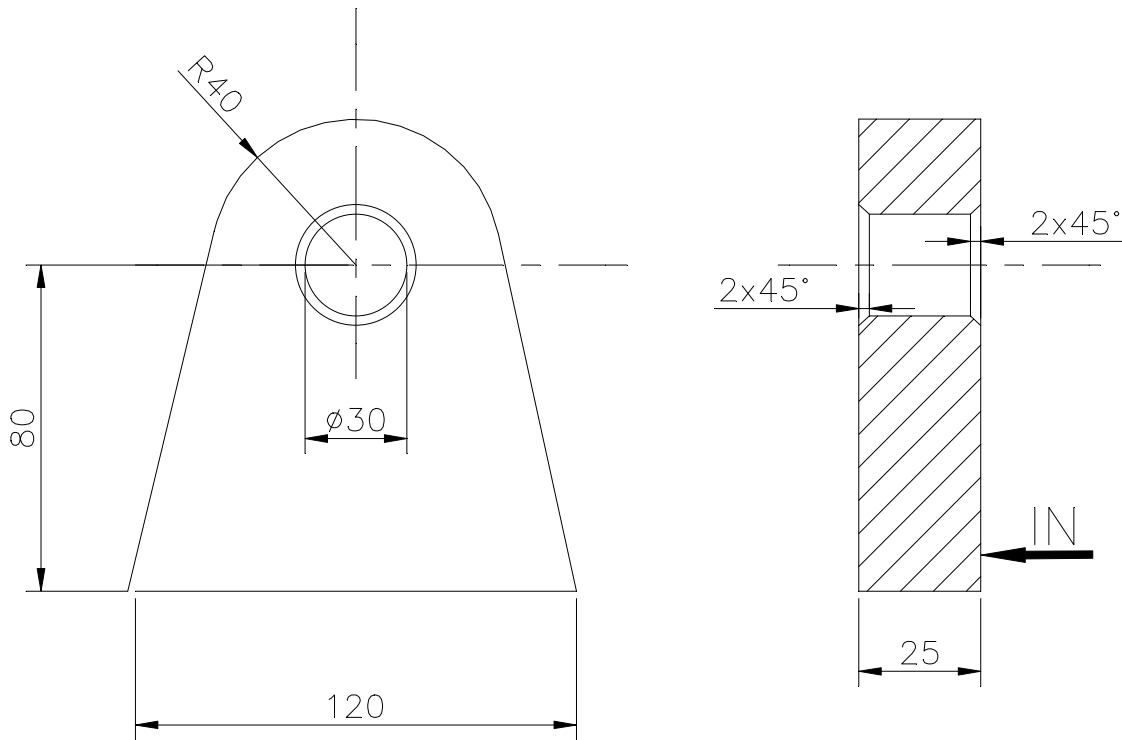
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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PRADEEP SD/-	CBOM No.		STATUS OF DRG
		CHECKED	01	31/08/09	CHECKED	AMIT SD/-	01350101030		
DRAWING SUPERSEDES WITHOUT ANY CHANGE						AGREED DEPT.	NAME	SIGN	DATE
C/A No-TGE-09-F0233						WT	CHAURASIA	SD/-	08/12/98
GRADE OF UNTOL.DIM.M/CGC/M/F.AA0230208					WELDING A/B/C/D AA0621104		GAS CUTTING-T3 AA0621101		

50/ THE REST



TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400.397 AT THE PLACE INDICATED WITH **IN** →

REF.DRG.No.	BHARAT HEAVY ELECTRICALS LTD HARDWAR					
	DRN	NAME	SIGN	DATE	NO. OF VAR	
SIGN & DATE	CHD	RK	SD/-	08/10/98		
	APD	M SINGH	SD/-	11/12/98		
INVENTORY No.	DEPT. TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	N.T.S	1.6	0-135-01-01030	100	
	TITLE			DRAWING No.		
LIFTING EYE			4-135-01-01330			
THRI 108/44A			SHEET No. 1		No.OF SHEETS	1

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BILL OF MATERIAL

Printed
On:01.05.2024

BOM No: 01350101064 Var: 00 Revno: 54 Rev Date: 21.03.2024
Description: STATOR FRAME (WELDED) Tot wt: 75152.0

Printed By:

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description				Assy. Remarks	
Typ	Cat	Zone	Var/Matl. Description		GRP	Fab Wt
0	01350101064 00					75152.0
1(1)	STATOR FRAME (WELDED)					
MF	DR		THDF 125/67		Y	75152.0
1	01350101065 00					20830.0
1(1)	STATOR FRAME (EE)					
MF	DR				N	21484.0
2	01350101066 00					21563.0
1(1)	STATOR FRAME (TE)					
MF	DR				N	21563.0
3	01350101067 00					16235.0
1(1)	STATOR FRAME (MIDDLE PART)					
MF	DR				N	16235.0
4	31350101538 00			AA1011819236	AA10119	623.0
4(4)	PLATE					
MF	DR					
5	31350101538 01			AA1011819236	AA10119	413.0
2(2)	PLATE					
MF	DR					
6	31350101441 00 00			AA1015224148	AA19331	22.8
16(16)	BOSS					
FI	DR					
10	31350101213 01 00			AA1011819295	AA10119	61.0
1(1)	FLANGE				CBOM01350101030	
MF	DR	E45				
11	31350101213 00 00			AA1011819295	AA10119	73.8
16(16)	FLANGE				CBOM01350101030	
MF	DR	E6				
12	41350101063 00			AA1011819236	AA10119	11.5
1(1)	FLANGE				BOR. 01350101002	
MF	DR					
13	41350101395 00 00			AA1011819155	AA10119	0.14
7(7)	EARTHING PIECE				BORR.01350101054	
MF	DR					
14	31350101215 00 00			AA1011819228	AA10119	6.65
3(3)	FLANGE				CBOM01350101030	
MF	DR	H34				
15	11350601057 00					35.58
2(2)	MOUNTING PLATE					
MF	DR		L=1020; B=580		N	
16	31350101361 00 00			AA1011819287	AA10119	56.2
2(2)	FLANGE				CBOM01350101051	
MF	DR	L34				
17	41350101338 00 00			AA1011819155	AA10119	1.5
2(2)	GROUND LUG				CBOM01350101030	
MF	DR	F2				
18	31350101469 00			AA1011819287	AA10119	36.7
4(4)	FLANGE					
MF	DR	H14				

ENGG

Initial Date

Worked By tgeam 05.06.2007
Checked By tgeam 04.12.2007
Approved By tgerk 01.01.2008



BILL OF MATERIAL

Printed
On:01.05.2024

BOM No: 01350101064 Var: 00 Revno: 54 Rev Date: 21.03.2024
Description: STATOR FRAME (WELDED) Tot wt: 75152.0

Printed By:

Item No	Qty(Total)	Typ	Cat	Zone	Drawingno Var Mvar Description Var/Matl. Description	Mat Code	Mat Spec Assy. Remarks GRP	Weight Fab Wt
20					31350101573 00 MOUNTING PLATE			3.8
2(2)		MF	DR				N	
23					41350101451 00 00 BRACKET	HW1011819953	AA10119	9.18
32(32)		MF	DR	D63				
24					41350101452 00 00 BRACKET	HW1011819953	AA10119	9.84
32(32)		MF	DR	D63				
28						HW1041146949	AA10446	0.556
4(4)					PIPE 60.3X4, L=100			
MF		MF	DR	D28	ST-BQ-A1-CDS-TUBE			
29						HW1041146990	AA10446	1.302
4(4)					PIPE 76.1X6.3, L=120			
MF		MF	DR	D28	ST-BQ-A1-CDS-TUBE			
31					41350101420 00 00 PIPE	HW1041146949	AA10446	0.67
2(2)		MF	DR	E27				
32					41350101420 01 00 PIPE	HW1041146949	AA10446	1.8
2(2)		MF	DR	E29				
33						AA1071055364	AA10755	1.393
2(2)					PIPE 33.7X2.6, L=518			
MF		MF	DR	F32	SMLS-STNLS-ST-PIPE			
35						AA1071055364	AA10755	3.954
2(2)					PIPE 33.7X2.6, L=1470			
MF		MF	DR	F32	SMLS-STNLS-ST-PIPE			
36						HW1041146892	AA10446	0.361
4(4)					PIPE 48.3X7.1			
MF		MF	DR	G32	ST-BQ-A1-CDS-TUBE			
39					41350101330 00 00 LIFTING PLUG	AA1011819155	AA10119 CBOM01350101030	1.9
6(6)		MF	DR	E30				
40					31350101470 00 00 GAS CHANNEL	AA1011819139	AA10119	48.1
10(10)		MF	DR	B30				
41					31350101470 01 00 GAS CHANNEL	AA1011819139	AA10119	48.1
10(10)		MF	DR	E32				
55						AA1011819112	AA10119	39.2
4(4)					PLATE 16 TK, DIA 630			
MF		MF	DR	K31	ST-FE410 WB-PLATE			
56					41350101421 00 00 RING	AA1011819090	AA10119	13.5
4(4)		MF	DR	K24				
60					31350101471 00 00 PLATE	AA1011819236	AA10119	58.2
1(1)		MF	DR	H15				

ENGG

Initial Date

Worked By tgeam 05.06.2007
Checked By tgeam 04.12.2007
Approved By tgerk 01.01.2008



BILL OF MATERIAL

Printed
On:01.05.2024

BOM No: 01350101064 Var: 00 Revno: 54 Rev Date: 21.03.2024
Description: STATOR FRAME (WELDED) Tot wt: 75152.0

Printed By:

Item No	Qty(Total)	Typ	Cat	Zone	Drawingno Var Mvar Description Var/Matl. Description	Mat Code	Mat Spec Assy. Remarks GRP	Weight Fab Wt
61	1(1)	MF	DR	H42	31350101472 00 00 PLATE	AA1011819236	AA10119	58.2
62	1(1)	MF	DR	E38	31350101473 00 00 PLATE	AA1011819236	AA10119	71.0
63	1(1)	MF	DR	J3	31350101474 00 00 PLATE	AA1011819236	AA10119	71.0
65	2(2)	MF	DR	J32	BLOCK 100 TK, 120X500 ST-FE410 WB-PLATE	AA1011819287	AA10119	47.1
70	4(4)	MF	DR	C13	41350101422 00 00 PLATE	HW1011819953	AA10119	34.5
72	2(2)	MF	DR	C14	31350101475 00 00 PLATE	AA1011819198	AA10119	35.8
73	2(2)	MF	DR	G3	31350101475 01 00 PLATE	AA1011819198	AA10119	35.8
85	3(3)	MF	DR	H14	21350101141 01 00 RIB	AA1011819236	AA10119	51.9
86	20(20)	MF	DR	C13	21350101142 00 RIB	AA1011819287	AA10119	90.0
87	1(1)	MF	DR	C14	21350101141 00 00 RIB	AA1011819236	AA10119	54.1
88	2(2)	MF	DR	H25	21350101143 00 RIB	AA1011819287	AA10119	111.9
89	2(2)	MF	DR	H32	21350101143 01 RIB	AA1011819287	AA10119	111.9
90	4(4)	MF	DR	H17	21350101142 01 RIB	AA1011819287	AA10119	89.9
91	2(2)	MF	DR	H9	31350101482 00 PLATE	AA1011819287	AA10119	60.5
92	4(4)	MF	DR	H8	31350101483 00 PLATE	AA1011819287	AA10119	39.6
93	2(2)	MF	DR	J9	31350101483 01 PLATE	AA1011819287	AA10119	35.8

ENGG

Initial Date

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BILL OF MATERIAL

Printed
On:01.05.2024

BOM No: 01350101064 Var: 00 Revno: 54 Rev Date: 21.03.2024
Description: STATOR FRAME (WELDED) Tot wt: 75152.0

Printed By:

Item No	Qty(Total)	Typ	Cat	Zone	Drawingno Var Mvar Description Var/Matl. Description	Mat Code	Mat Spec Assy. Remarks GRP	Weight Fab Wt
94	10(10)	MF	DR	H12	31350101484 00 00 PLATE	AA1011819295	AA10119	51.4
95	4(4)	MF	DR	H11	31350101484 01 00 PLATE	AA1011819295	AA10119	75.1
96	2(2)	MF	DR	J9	31350101487 00 00 PLATE	AA1011819260	AA10119	171.0
98	1(1)	MF	DR	H5	31350101504 02 00 PLATE	AA1011819295	AA10119	46.5
100	1(1)	MF	DR	J6	31350101485 00 00 PLATE	AA1011819295	AA10119	8.9
101	1(1)	MF	DR	H6	31350101486 00 00 PLATE	AA1011819295	AA10119	31.1
102	1(1)	MF	DR	H7	31350101504 04 00 PLATE	AA1011819295	AA10119	52.3
104	1(1)	MF	DR	H10	31350101485 02 00 PLATE	AA1011819295	AA10119	17.2
105	1(1)	MF	DR	H10	31350101486 01 00 PLATE	AA1011819295	AA10119	28.7
106	1(1)	MF	DR	H12	31350101504 00 00 PLATE	AA1011819295	AA10119	46.5
108	1(1)	MF	DR	H5	31350101504 03 00 PLATE	AA1011819295	AA10119	46.5
110	1(1)	MF	DR	J6	31350101486 02 00 PLATE	AA1011819295	AA10119	8.9
111	1(1)	MF	DR	H6	31350101485 03 00 PLATE	AA1011819295	AA10119	31.1
112	1(1)	MF	DR	H7	31350101504 05 00 PLATE	AA1011819295	AA10119	52.3
114	1(1)	MF	DR	H10	31350101486 03 00 PLATE	AA1011819295	AA10119	17.2
115	1(1)	MF	DR	H10	31350101485 01 00 PLATE	AA1011819295	AA10119	28.9

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BILL OF MATERIAL

Printed
On:01.05.2024

BOM No: 01350101064 Var: 00 Revno: 54 Rev Date: 21.03.2024
Description: STATOR FRAME (WELDED) Tot wt: 75152.0

Printed By:

Item No	Drawingno Var Mvar			Mat Code	Mat Spec	Weight
Qty(Total)	Description				Assy. Remarks	
Typ	Cat	Zone	Var/Matl. Description		GRP	Fab Wt
116			31350101504 01 00	AA1011819295	AA10119	46.5
1(1)			PLATE			
MF	DR	H12				
120			31350101488 00 00	AA1012708039	AA10108	16.5
1(1)			CHANNEL			
MF	DR	E28				
121			31350101490 00 00	AA1012708039	AA10108	9.3
2(2)			CHANNEL			
MF	DR	F13				
122			31350101493 00 00	AA1012708039	AA10108	6.9
2(2)			CHANNEL			
MF	DR	G14				
123				HW1011715996	AA10115	0.095
4(4)			PLATE 3 TK X 45 X 90			
MF	DR	F14	ST-D-SHEET			
124			31350101492 00 00	AA1012708039	AA10108	7.5
1(1)			CHANNEL			
MF	DR	F12				
125			31350101491 00 00	AA1012708039	AA10108	7.5
1(1)			CHANNEL			
MF	DR	A7				
128			31350101489 00 00	AA1012708039	AA10108	14.2
1(1)			CHANNEL			
MF	DR	F31				
130			41350201009 00 00	W96413900350	AA10108	0.5
2(2)			PROTECTIVE PIPE		CBOM91350201000	
BO	DR	G26				
141			21350101166 00	AA1011819279	AA10119	909.3
1(1)			FOOT PLATE			
MF	DR	G15				
142			21350101166 01	AA1011819279	AA10119	909.3
1(1)			FOOT PLATE			
MF	DR	G15				
143			21350101167 00	AA1011819279	AA10119	980.3
1(1)			FOOT PLATE			
MF	DR	G3				
144			21350101167 01	AA1011819279	AA10119	980.3
1(1)			FOOT PLATE			
MF	DR	G3				
150			31350101494 00 00	AA1011819074	AA10119	15.8
2(2)			PLATE			
MF	DR	E33				
151			31350101495 00 00	AA1011819155	AA10119	24.8
2(2)			PLATE			
MF	DR	C33				
152			31350101495 01 00	AA1011819155	AA10119	8.3
1(1)			PLATE			
MF	DR	C34				

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BILL OF MATERIAL

Printed
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BOM No: 01350101064 Var: 00 Revno: 54 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (WELDED) Tot wt: 75152.0

Item No	Drawingno Var Mvar			Mat Code	Mat Spec	Weight
Qty(Total)	Description				Assy. Remarks	
Typ	Cat	Zone	Var/Matl. Description		GRP	Fab Wt
153			41350101424 00 00	AA1012508030	AA10108	2.3
2(2)			ANGLE			
MF	DR	D36				
154			41350101425 00 00	AA1012508030	AA10108	2.1
1(1)			ANGLE			
MF	DR	B38				
156				AA1012508030	AA10108	4.35
2(2)			ANGLE 40X40X5, L=1450			
MF	DR	C38	ST-A(FE410 WA)ANGLE			
157			41350101423 00 00	AA1012508030	AA10108	4.3
4(4)			ANGLE			
MF	DR	C40				
158			41350101424 01 00	AA1012508030	AA10108	2.3
2(2)			ANGLE			
MF	DR	E43				
159			41350101425 01 00	AA1012508030	AA10108	2.1
1(1)			ANGLE			
MF	DR	E46				

BOM - 01350101064 00

ENGG

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BILL OF MATERIAL

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BOM No: 01350101065 Var: 00 Revno: 8 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (EE) Tot wt: 20830.0

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description			Asy. Remarks		
Typ	Cat	Zone	Var/Matl. Description	GRP		Fab Wt
0	01350101065 00					20830.0
1(1)	STATOR FRAME (EE)					
MF	DR				N	21484.0
11	11350101065 00			HW1017819122	AA10119	4212.0
1(1)	SIDE WALL					
MF	DR	M10				
13	11350101071 00 00			HW1017819114	AA10119	3083.0
1(1)	CASING					
MF	DR	M11				
14	11350101071 01 00			HW1017819114	AA10119	2978.0
1(1)	CASING					
MF	DR	M4				
15	11350101071 02 00			AA1011819155	AA10119	169.3
1(1)	CASING					
MF	DR	F15				
17	11350101067 00 00			AA1011819260	AA10119	2909.9
1(1)	TERMINAL PLATE					
MF	DR	E11				
20	31350101439 00 00			AA1011819198	AA10119	405.7
2(2)	PLATE					
MF	DR	F18				
26	11350101068 00 00			AA1011819210	AA10119	1418.0
1(1)	INNER WALL					
MF	DR	J13				
27	11350101069 00 00			AA1011819210	AA10119	1666.7
1(1)	INNER WALL					
MF	DR	K15				
30	31350101440 00 00			AA1011819236	AA10119	22.6
2(2)	PLATE					
MF	DR	J15				
31	31350101443 00 00			HW1011819953	AA10119	4.4
4(4)	PLATE					
MF	DR	K8				
33	31350101446 00 00			AA1011819139	AA10119	128.9
8(8)	GAS CHANNEL					
MF	DR	L15				
35	31350101447 00 00			AA1011819139	AA10119	127.4
2(2)	GAS CHANNEL					
MF	DR	G15				
39	41350101330 00 00			AA1011819155	AA10119	1.9
2(2)	LIFTING PLUG				BOR.01350101030	
MF	DR	K6				
44	31350101433 00 00			AA1011819155	AA10119	109.5
4(4)	PLATE					
MF	DR	C10				
47	31350101433 01 00			AA1011819155	AA10119	107.9
8(8)	PLATE					
MF	DR	M10				

ENGG

Worked By	tgepk	02.12.2006
Checked By	tgeam	09.08.2007
Approved By	tgerk	01.01.2008



BILL OF MATERIAL

Printed
On:06.05.2024

BOM No: 01350101065 Var: 00 Revno: 8 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (EE) Tot wt: 20830.0

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description			Asy. Remarks		
Typ	Cat	Zone	Var/Mat. Description	GRP		Fab Wt
48	31350101434	00	00	AA1011819155	AA10119	107.1
4(4)			PLATE			
MF	DR	J19				
52	31350101435	00	00	AA1011819155	AA10119	97.6
8(8)			PLATE			
MF	DR	L10				
56	41350101394	00	00	AA1011819155	AA10119	17.5
2(2)			PLATE			
MF	DR	E11				
72	31350101436	00	00	AA1011819074	AA10119	51.89
2(2)			PLATE			
MF	DR	E13				
88	31350101442	00	00	HW1041146949	AA10446	6.9
2(2)			PIPE			
MF	DR	F15				
90	41350101039	00	00	AA1010209248	AA10109	0.45
2(2)			CAP		BOR.01350101002	
MF		F4				
97	31350101438	00	00	AA1049355628	AA10455	8.3
4(4)			PIPE			
MF	DR	C39				
98				AA1011819112	AA10119	11.4
4(4)			PLATE 16 TK, DIA 340			
MF	DR	C39	ST-FE410 WB-PLATE			
99				HW1071055801	AA10755	1.0
2(2)			PIPE, L=1MR			
MF			SMLS-STNLS-ST-PIPE			

BOM - 01350101065 00

ENGG

	Initial	Date
Worked By	tgepk	02.12.2006
Checked By	tgeam	09.08.2007
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BILL OF MATERIAL

Printed
On:06.05.2024

BOM No: 01350101066 Var: 00 Revno: 10 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (TE) Tot wt: 21563.0

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description			Assy. Remarks		
Typ	Cat	Zone	Var/Matl. Description	GRP		Fab Wt
0	01350101066 00					21563.0
1(1)	STATOR FRAME (TE)					
MF	DR				N	21563.0
11	11350101074 00			HW1017819122	AA10119	3401.0
1(1)	SIDE WALL					
MF	DR	L7				
13	21350101136 00			AA1011819155	AA10119	2877.0
1(1)	CASING					
MF	DR	M5				
14	21350101136 01			AA1011819155	AA10119	2000.0
1(1)	CASING					
MF	DR	M3				
15	21350101136 02			AA1011819155	AA10119	2000.0
1(1)	CASING					
MF	DR					
16	21350101136 03			AA1011819155	AA10119	2877.0
1(1)	CASING					
MF	DR					
26	11350101075 00 00			AA1011819210	AA10119	1307.0
1(1)	INNER WALL					
MF	DR	H5				
28	11350101073 00 00			AA1011819210	AA10119	1416.7
1(1)	INNER WALL					
MF	DR	J2				
29	11350101116 00 00			AA1011819210	AA10119	1416.7
1(1)	INNER WAL					
MF	DR	J3				
30	31350101440 00 00			AA1011819236	AA10119	22.6
6(6)	PLATE					
MF	DR	H4				
31	31350101443 00 00			HW1011819953	AA10119	4.4
12(12)	PLATE					
MF	DR	K3				
33	31350101462 00 00			AA1011819139	AA10119	218.2
10(10)	GAS CHANNEL					
MF	DR	K2				
39	41350101330 00 00			AA1011819155	AA10119	1.9
5(5)	LIFTING PLUG				CBOM01350101030	
MF	DR	K9				
44	21350101137 00 00			AA1011819155	AA10119	71.9
4(4)	PLATE					
MF	DR	G11				
47	21350101137 01 00			AA1011819155	AA10119	54.4
10(10)	PLATE					
MF	DR	G10				
48	21350101137 03 00			AA1011819155	AA10119	54.0
2(2)	PLATE					
MF	DR	J7				

ENGG

	Initial	Date
Worked By	tgepk	02.12.2006
Checked By	tgeam	09.08.2007
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BILL OF MATERIAL

Printed
On:06.05.2024

BOM No: 01350101066 Var: 00 Revno: 10 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (TE) Tot wt: 21563.0

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description			Asy. Remarks		
Typ	Cat	Zone	Var/Matl. Description	GRP		Fab Wt
52 4(4)			21350101137 02 00 PLATE	AA1011819155	AA10119	55.5
MF	DR	J7				
53 4(4)			21350101137 04 00 PLATE	AA1011819155	AA10119	55.5
MF	DR	K7				
87 1(1)			31350101463 00 00 PIPE	HW1041146949	AA10446	12.8
MF	DR	M22				
88 1(1)			31350101467 00 00 PIPE	HW1041146949	AA10446	7.6
MF	DR	D6				
89 1(1)			31350101466 00 00 PIPE	HW1041146949	AA10446	7.6
MF	DR	E6				
90 1(1)			31350101465 00 00 PIPE	HW1041146949	AA10446	5.2
MF	DR	E29				
91 1(1)			31350101464 00 00 PIPE	HW1041146949	AA10446	8.1
MF	DR	F20				
95 2(2)			31350101468 00 00 PLATE	HW1011819953	AA10119	44.3
MF	DR	E12				
97 4(4)			31350101438 00 00 PIPE	AA1049355628	AA10455	8.3
MF	DR	H24				
98 4(4)			PLATE 16 TK, DIA 340	AA1011819112	AA10119	11.4
MF	DR	H17	ST-FE410 WB-PLATE			
100 4(4)			21350101138 00 00 PLATE	AA1011819074	AA10119	18.15
MF	DR	E16				
101 72(72)			SCRU HEX A- 8.8	AA7121123240	AA7121123	0.032
SI	DR	D15	M10X35			

ENGG

	Initial	Date
Worked By	tgepk	02.12.2006
Checked By	tgeam	09.08.2007
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BILL OF MATERIAL

Printed
On:06.05.2024

BOM No: 01350101067 Var: 00 Revno: 11 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (MIDDLE PART) Tot wt: 16235.0

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description			Assy. Remarks		
Typ	Cat	Zone	Var/Matl. Description	GRP		Fab Wt
0	01350101067 00					16235.0
1(1)	STATOR FRAME (MIDDLE PART)					
MF	DR				N	16235.0
13	31350101456 00			HW1017819114	AA10119	4100.0
2(2)	CASING					
MF	DR	M15				
26	11350101072 00 00			AA1011819210	AA10119	1406.6
1(1)	INNER WALL					
MF	DR	C27				
28	11350101073 00 00			AA1011819210	AA10119	1416.7
1(1)	INNER WALL					
MF	DR	C29				
29	11350101123 00 00			AA1011819210	AA10119	1446.6
1(1)	INNER WALL					
MF	DR	L5				
30	31350101440 00 00			AA1011819236	AA10119	22.6
4(4)	PLATE					
MF	DR	K14				
31	31350101443 00 00			HW1011819953	AA10119	4.4
8(8)	PLATE					
MF	DR	K14				
33	31350101455 00 00			AA1011819139	AA10119	149.5
10(10)	GAS CHANNEL					
MF	DR	L9				
35	31350101454 00 00			AA1011819139	AA10119	124.4
10(10)	GAS CHANNEL					
MF	DR	B15				
39	41350101330 00 00			AA1011819155	AA10119	1.9
3(3)	LIFTING PLUG				CBOM01350101030	
MF	DR	K14				
40				AA1071055364	AA10755	7.64
2(2)	PIPE 33.7X2.6, L=2840					
MF	DR	H26				
50	31350101457 00 00			AA1011819074	AA10119	0.45
2(2)	PLATE					
MF	DR	M27				
51	31350101457 01 00			AA1011819074	AA10119	0.45
8(8)	PLATE					
MF	DR	H28				
61	31350101458 00			AA1011819236	AA10119	200.3
3(3)	PLATE					
MF	DR	G28				
86	31350101460 00 00			HW1041146949	AA10446	3.6
2(2)	PIPE					
MF	DR	C26				
87	31350101461 00 00			HW1041146949	AA10446	13.1
2(2)	PIPE					
MF	DR	F2				

ENGG

	Initial	Date
Worked By	tgepk	02.12.2006
Checked By	tgeam	09.08.2007
Approved By	tgerk	01.01.2008



BILL OF MATERIAL

Printed
On:06.05.2024

BOM No: 01350101067 Var: 00 Revno: 11 Rev Date: 21.03.2024

Printed By:

Description: STATOR FRAME (MIDDLE PART) Tot wt: 16235.0

Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight
Qty(Total)	Description				Assy. Remarks	
Typ	Cat	Zone	Var/Matl. Description		GRP	Fab Wt
89			31350101459 02 00	HW1041146949	AA10446	0.6
1(1)			PIPE			
MF	DR	M21				
90			21350101168 00 00	HW1041146949	AA10446	25.34
1(1)			PIPE			
MF	DR	J23				
91				AA7242308097	AA7242308	1.45
3(3)			TEE EQUAL			
SI	DR	F22	TEE EQUAL			
92				AA7242315093	AA7242315	1.0
1(1)			CROSS EQUAL			
SI	DR	L21	CROSS EQUAL			
93				AA7242344093	AA7242344	0.343
3(3)			BEADED PLUGT9-CI			
BO	DR	F22	2"T9			
97			31350101438 00 00	AA1049355628	AA10455	8.3
4(4)			PIPE			
MF	DR	H15				
98				AA1011819112	AA10119	11.4
4(4)			PLATE 16 TK, DIA 340			
MF	DR	J15	ST-FE410 WB-PLATE			

BOM - 01350101067 00

ENGG

	Initial	Date
Worked By	tgepk	02.12.2006
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BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

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1. GENERAL.

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

2. ORIGIN OF QUOTATION.

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

3. SUBMISSION OF TENDER.

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

Quotation against Enquiry No. _____

Dated: _____

Due on: _____

To,

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

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

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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 BHEL or without permission of BHEL.

6. PRICE SCHEDULE.

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

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

NB: Financial evaluation of L1, L2Status will be on the basis of Landed Cost to BHEL.

7. REVERSE AUCTION.

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

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

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

8. DELIVERY TERMS.

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

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9. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY.

a) Where items of Purchase Order are independently usable.

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

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

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

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

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

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

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

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

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

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

10. PAYMENT TERMS.

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

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

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

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

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

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

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

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



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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



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

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

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

12. BANK GUARANTEE.

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

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

Goods shall comply with the specifications for material, workmanship and performance. Unless otherwise specified, the warranty shall be for a period of 18 months from the date of receipt. If the delivery is found non-compliant during the warranty period, leading to rejection, the Seller shall arrange free replacement / repair of goods, within one month from the date of intimation or any mutually agreed period. The rejected goods shall be taken away by the Seller at his cost and

replaced on Delivered Duty Paid (DDP) (FOR - BHEL Stores / designated destination basis) within such period. In the event of the Seller's failure to comply, Purchaser may take action as appropriate, including Repair / Replenish rejected goods & disposal of rejections, at the risk & cost of the Seller. In case the defects attributable to Seller are detected during processing of the goods at BHEL or at our subcontractor's works, the Seller shall be responsible for free replacement / repair of the goods as required by BHEL.

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

14. QUALITY REQUIREMENT.

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

15. VALIDITY.

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

16. RIGHT OF ACCEPTANCE.

- a) **BHARAT HEAVY ELECTRICALS LIMITED HARIDWAR** reserves the right to reject any or all the bids / quotations without assigning any reason thereof. BHEL also reserves the right to increase or decrease the tendered quantities. Bidders should be prepared to accept order for reduced quantity without any extra charges.
- b) Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.



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- c) Unsolicited discounts / revised offers / bids given after Part-1 bid opening shall not be accepted. No change in price will be permitted within the validity period asked for in the tender enquiry.
- d) In case of changes in scope and / or technical specification and / or commercial terms & conditions having price implication, techno-commercially acceptable bidders shall be asked by BHEL to submit the impact of such changes on their price bids. In case a bidder opts to submit revised price bid instead of impact called for then the latest price bid shall prevail. However, in both situations, original price bid will be necessarily opened.
- e) The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
- f) BHEL reserves the right to short close the existing Purchase Order / Rate Contract / Work Order or any extension thereof at any stage.

17. TRANSIT INSURANCE.

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

18. RISK PURCHASE.

In case of abnormal delays (beyond the maximum late delivery period as per LD clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract or under General Law.

19. FORCE MAJEURE CLAUSE.

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

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

- Act of God (Such as but not limited to earthquake, drought, tidal waves, floods etc.).
- War (whether war be declared or not), Hostilities Invasion, Act of foreign enemy etc.
- Rebellion, revolution, insurrection, civil war etc.
- Contamination of Radio Activity from any nuclear fuel or from any other nuclear waste or any other hazardous materials.
- Riots, commotions, strike unless restricted to the employees of supplier.
- Acts of terrorism.



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- g) Other unforeseeable circumstances beyond the control of the parties and which the affected party cannot avoid even by using its best efforts.
- h) Cancellation of contract by customer.
- i) Change in law / government. Regulation making the performance impossible.
- j) Pandemic or Epidemic.

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

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

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

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

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

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

20. NON-DISCLOSURE AGREEMENT.

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

21. SETTLEMENT OF DISPUTES / ARBITRATION.

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

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

22. WHARFAGE / DEMURRAGE RESPONSIBILITY.

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

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

- a) "MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (**five years** from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate



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(Format enclosed at annexure-1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two-part bid) or vendor has to give Udyog Adhar Memorandum (UAM). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is found or the requisite documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above require document are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer. **UAM need not required to be notarized or attested.**

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

1. Udyog Adhar Memorandum (UAM).
2. Valid National Small Industries Commission (NSIC) Certificate.
3. Entrepreneurs Memorandum part II (EM II) certificate (valid based on deemed validity of 5 years) or
4. EM II certificate along with attested copy of CA Certificate (as per prescribed format at annexure-A) applicable for the relevant financial year (latest audited), where the deemed validity of EM II is over.
5. However, credentials of all MSE suppliers will be verified before advancing the intended benefits.
6. MSE bidders claiming SC/ST status will have to submit SC/ST certificate of the Proprietor from competent authority. Attested (notarized or attested by Gazetted officer) copy to be submitted along with the offer.
7. In case techno-commercial accepted bidders include MSE source and their prices (based on landed cost – considering quoted prices) are within the price band of 15% w.r.t. L-1 bidder, then BHEL can offer **25%** of quantity of respective item (rounded off to nearest number) to MSE bidders at L-1 price and in case, more than one MSE bidder is in 15 % band and the same is accepted by more than one MSE bidders then **25%** quantities of respective items will be considered for ordering on proportionate basis amongst MSE bidders.
8. There will be minimum of **3%** reservation for women owned MSEs within the above mentioned 25% reservation.
9. The reservation for MSEs owned by SC/ST will be **6.25%** { 25% out of target of 25% - refer para 4 of Public Procurement Policy for the Micro and Small Enterprises(MSEs)}.
10. The definition of MSEs owned by Women Entrepreneurs is clarified as under:
 - a) In case of proprietary MSE, proprietor shall be Woman.
 - b) In case of partnership MSE, the Woman partners shall be holding at least 51% of share in the unit.
 - c) In case of Private Limited companies, at least 51% share shall be held by Women promoters.
11. The definition of MSEs owned by SC/ST is clarified as under:
 - a) In case of proprietary MSE, proprietor(s) shall be SC/ST.
 - b) In case of partnership MSE, the SC/ST partners shall be holding at least 51% of shares in the unit.
 - c) In case of Private Limited companies, at least 51% share shall be held by SC/ST promoters.
12. While distributing the **25%** quantity amongst MSE bidders the decimal points in quantity shall be ignored for all the bidders except the L-1 amongst MSE bidders. Balance quantity after allocating the quantity to other MSE bidders ignoring the quantities in decimal, shall be given to L-1 (amongst MSE) bidder. However, if there are more than one MSE bidder at the same price level than preference for additional quantities due to ignoring off the decimal (as mentioned above) shall be given to the bidder offering favorable terms to BHEL and if the conditions offered are also same then preference will be given to the bidder having high SPR rating.
13. In case there are more than one MSE bidders (with different landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given to the MSE bidder with lowest landed cost.
14. In case there are more than one MSE bidders (with same landed cost to BHEL) within 15% price band of lowest bidder and quantity to be offered is 1 no. only, then preference shall be given first, based on the favorable terms in the bid and in case terms are also same, the bidder with high SPR rating shall be given preference.
15. If L1 bidder is MSE bidder, entire quantity will be given to such MSE bidder only.

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



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

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

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

24. INFORMATION TO THE BIDDERS.

a) Purchase related information is available at our Business-to-Business (B2B) Portal available on our website <https://hwr.bhel.com>. The user ID & password can be obtained by sending a request to concerned purchase executives.

b) Intimate your change in mail address or communication address or changes, if any, by email to AGM (SDX/MM) giving your bidder Code.

c) Please resolve your rejections and unexecuted overdue purchase order immediately which are posted at our B2B Portal, which can be visited through our site <https://hwr.bhel.com>

d) Copy of this Tender Enquiry is being sent through the post.

e) The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

In case, the bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/guidelines.

f) Supplier must upload digitally signed e-Invoice on B2B portal for processing of Bills.

In other cases, inked signed hard copy of Invoice to be submitted for processing of Bills.

25. MAKE IN INDIA (GOVT-NOTIFICATION).

A. This tender enquiry shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 04.06.2020 of government of INDIA and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for preference to make in INDIA shall be adhered.

B. The margin of purchase preference shall be 20%.

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

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

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



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E. Requirement of Purchase Preference:

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

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

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

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

- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- ii. If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling

within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.

- iii. In case such lowest eligible 'Class-I local supplier', fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 prices, the contract may be awarded to the L1 bidder.

c. 'Class-II local supplier' will not get purchase preference in any procurement, undertaken by procuring entities.

F. For this procurement, the local content to categorize a supplier as a Class-I local supplier/ Class-II local supplier/ Non-local supplier and purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT.

G. Procurements where estimated value to be procured is less than Rs. 5 lakhs shall be exempted from GOI order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020.

H. For procurement of Goods & Services which are divisible in nature, following shall be operated for **MSE bidders** under Public procurement Policy for the Micro and Small Enterprises (MSEs) Amendment Order, 2019, Ref. No. AA:SSP: MSE: Amndt, dtd. 30.11.2018, Circular No. 44 of 2018-19;-

a. If L1 bid is not from "Class-I local Supplier" and price quoted by MSE bidder falls within the margin of Purchase preference (L1+15% for MSEs), then 25 % of total order quantity of respective item (rounded off to nearest number) shall be awarded to MSE bidder, subject to MSE bidder matching the L1 Price. Out of Remaining 75% quantity, distribution shall be operated as per below sub-clause (2) –

b. If "Class- I Local Supplier" (Next to L1, other than MSE) quoted price falling within the Margin of Purchase Preference, and "Class-I local supplier" matches the L1 price,



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then 50% of remaining Quantity (after allocation of 25% to MSE) i.e. 37.5% shall be awarded to local supplier and 37.5% shall be awarded to foreign bidder.

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

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

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

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

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

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

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

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

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

27. NOTE.

- 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 suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business / money / reputation, indulged in malpractices, cheating, bribery, fraud or any other misconducts or formation of cartel so as to influence the bidding process or influence the price etc. Guide- lines for Suspension of Business Dealings with Suppliers / Contractors shall prevail over which is available at BHEL website <http://www.bhel.com>
- 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

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occurrence caused during the manufacturing / operation and works incidental thereto at BHEL factories/ **offices and precincts** thereof , project execution , erection and commissioning, services, repairs and maintenance, trouble shooting, serving , overhaul, renovation and retrofitting , trial operation, performance guarantee testing undertaken by the company or during any works / during working at BHEL Units/ Offices/ townships and premises/ project sites.

3. Compensation in respect of each of the victims:

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

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

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

Detail of BHEL approved electrode

S.No.	Material Combination	Electrode/Wire	Process	WT PMD
1	MS-MS	E-7018	SMAW	WT003
2	MS-SS	E-309cb-15	SMAW	WT009
3	SS-SS	E-347-15	SMAW	WT010
4	MS-MS	ER-70S G	GMAW	WT034
5	MS-SS	ER-309L/309LSI	GMAW	WT029
6	SS-SS	ER-347	GMAW	WT028
7	MS-MS	ER-70S 6	GTAW	WT024
8	MS-SS	ER-309L/309LSI	GTAW	WT029
9	SS-SS	ER-347	GTAW	WT028

Category Description	Desc2	Cleared	Purchasecell	Pur type	It
WT003 Welding Electrode AWS: E-7018		Y			

Select and

Select	Ven Code	Corp Supplierid	Name	Prod Ctrl Check	Supp Ctrl Check
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7
<input type="radio"/>	M06147	I0001217	VARUN ELECTRODES PVT. LTD.	-	-
<input type="radio"/>	M06164	I0007234	SUPERON SCHWEISSTECHNIK (I) LT	16	7
<input type="radio"/>	M07080	I0007704	RAJ KESARI ELECTRODES PRIVATE	16	7
<input type="radio"/>	M16016	I0003296	D & H SECHERON ELECTRODES PVT.	16	7
<input type="radio"/>	M16113	I0000228	D & H INDIA LIMITED	16	7
<input type="radio"/>	M17023	I0004455	CALCUTTA ELECTRODES PVT LTD	-	-
<input type="radio"/>	M22729	I0003585	WELDWELL ELECTRODES	-	-
<input type="radio"/>	M29057	I0004138	MANTEK ELECTRODES PVT. LTD.	16	7
<input type="radio"/>	M40277	I0005036	ESAB INDIA LIMITED	16	7
<input type="radio"/>	M40648	I0000357	MARUTI WELD PRIVATE LIMITED	-	-
<input type="radio"/>	M41185	I0002971	MAILAM INDIA LIMITED.	-	-
<input type="radio"/>	M41590	I0005969	GEE LIMITED	-	-
<input type="radio"/>	M41596	I0000307	HONAVAR ELECTRODES PVT LTD	-	-

Select and

Total Codes

Category Description	Desc2	Cleared	Purchas
WT009 Welding Electrodes AWS: E-309cb-15		Y	

Select and Other Categories in which regd. Dollar Details Insertion Det

Select	Ven Code	CorpSupplierid	Name	Prod Ctrl Check	Supp Ctrl Check
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7
<input type="radio"/>	M16016	I0003296	D & H SECHERON ELECTRODES PVT.	16	7
<input type="radio"/>	M80029	F000566	AIR LIQUIDE WELDING	-	-
<input type="radio"/>	M82053	F002788	VOESTALPINE BOHLER WELDING AUS	16	7

Total Codes

Category Description	Desc2	Cleared	Purchas
WT010 Welding Electrode AWS: E-347-15		Y	

Select and Other Categories in which regd. Dollar Details Insertion

Select	Ven Code	CorpSupplierid	Name	Prod Ctrl Check	Supp Ctrl Che
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7
<input type="radio"/>	M16016	I0003296	D & H SECHERON ELECTRODES PVT.	16	7
<input type="radio"/>	M41185	I0002971	MAILAM INDIA LIMITED.	-	-
<input type="radio"/>	M72456	F001947	VOESTALPINE BOHLER WELDING GER	16	7
<input type="radio"/>	M80029	F000566	AIR LIQUIDE WELDING	-	-

Total Codes

Category Description	Desc2
WT029 GTAW AND GMAW FILLER WIRE AWS: ER 309L/309LSI	

Select and Other Categories in which regd. Dollar Details Insertion Detail

Select	Ven Code	CorpSupplierid	Name	Prod Ctrl Check	Supp Ctrl Check
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7
<input type="radio"/>	M40277	I0005036	ESAB INDIA LIMITED	16	7
<input type="radio"/>	M41590	I0005969	GEE LIMITED	16	7
<input type="radio"/>	M72456	F001947	VOESTALPINE BOHLER WELDING GER	16	7
<input type="radio"/>	M80110	F002500	NOVAMETAL SA	16	7

Total Codes

Category Description	Desc2	Cleared	Purchasecell	Pur type
WT034 GMAW Filler Wire ER 70S-G		Y		

Select and

Select	Ven Code	CorpSupplierid	Name	Prod Ctrl Check	Supp C Check
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7
<input type="radio"/>	M06147	I0001217	VARUN ELECTRODES PVT. LTD.	16	7
<input type="radio"/>	M11101	I0002923	MODI ARC ELECTRODES CO	16	7
<input type="radio"/>	M40277	I0005036	ESAB INDIA LIMITED	16	7
<input type="radio"/>	M40946	I0007650	MW WIRETEC PVT LTD	-	-

Category Description	Desc2	Cleared	Purchasecell	Pur type
WT024 GTAW Filler Wire AWS:ER 70S-6		Y		

Select and

Select	Ven Code	CorpSupplierid	Name	Prod Ctrl Check	Supp C Check
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7
<input type="radio"/>	M11101	I0002923	MODI ARC ELECTRODES CO	16	7
<input type="radio"/>	M16016	I0003296	D & H SECHERON ELECTRODES PVT.	16	7
<input type="radio"/>	M16113	I0000228	D & H INDIA LIMITED	16	7
<input type="radio"/>	M40277	I0005036	ESAB INDIA LIMITED	16	7
<input type="radio"/>	M40946	I0007650	MW WIRETEC PVT LTD	-	-

Total Codes

Category Description	Desc2	Cleared	Pur
WT028 GTAW AND GMAW FILLER WIRE AWS: ER 347		Y	

Select and

Select	Ven Code	CorpSupplierid	Name	Prod Ctrl Check	Supp Ctrl Check	App
<input checked="" type="radio"/>	M01168	I0003457	ADOR WELDING LIMITED	16	7	APF
<input type="radio"/>	F06251	I0014475	KOBELCO WELDING INDIA PRIVATE	1	17	APF
<input type="radio"/>	M16016	I0003296	D & H SECHERON ELECTRODES PVT.	16	7	APF
<input type="radio"/>	M41590	I0005969	GEE LIMITED	16	7	APF
<input type="radio"/>	M41630	I0001306	HINDUSTAN INOX LTD.BLOCK NO.7.	6	7	APF
<input type="radio"/>	M72456	F001947	VOESTALPINE BOHLER WELDING GER	16	7	APF
<input type="radio"/>	M80029	F000566	AIR LIQUIDE WELDING	-	-	APF
<input type="radio"/>	M96001	F002429	LINCOLN SMITWELD BV	16	7	APF

Total Codes