

## TENDER ENQUIRY NO.: X/6620/2022/0707/F/1

**SUB: - TERMS & CONDITIONS FOR FORMING OF AIR GUIDE COVER (WELDED, 0144040102800), AIR GUIDE COVER (WELDED, 0144040103100), COVER (WELDED, 1144040102300) & COVER (WELDED, 1144040103900)**

### NIT-Notice Inviting Tender

Salient Details of Notice Inviting Tender (NIT)		
Sl. No.	Issue	Description
1.	Item details	As per Enquiry Annexure X/6620/2022/0707/F/1
2.	Issue of Tender Documents	From BHEL eProcurement website <a href="https://eprocurebhel.co.in/nicgep/app">https://eprocurebhel.co.in/nicgep/app</a> (Tender documents will be available for downloading from BHEL e-Procurement website till due date of submission)
3.	Due Date Of Offer Submission	Date: 01-06-2023 Time: 13:45 hrs <a href="https://eprocurebhel.co.in/nicgep/app">https://eprocurebhel.co.in/nicgep/app</a> <b>Offer to be submitted in online only through e-procurement Portal.</b> (Bidders are requested to visit website to view corrigendum/ addenda/ amendments/ extension/ modification etc. before submitting offer).
4.	Opening of Tender (Techno-Commercial Bid)	<b>Date:</b> 01-06-2023 Time: 14.00 Hrs <b>Notes:</b> <b><i>This tender being an e-tender, it shall be opened online only through the E-Procurement Portal. Participating bidders may witness the Opening online only.</i></b>
5.	Cost of Tender	INR 2000/- (If hard copy of tender document is required from BHEL otherwise not applicable.)
6.	EMD (Earnest Money Deposit)	NIL
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 <a href="https://eprocurebhel.co.in/nicgep/app">https://eprocurebhel.co.in/nicgep/app</a> 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](http://www.hwr.bhel.com) for General Instructions and Standard Terms & Conditions (GISTC) for Tender Enquiries. All the bidders/vendors must ensure compliance of these GISTC. GISTC can also be referred by login to B2B Portal for Registered Vendors.

**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,

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then the same may be collected against copy of Pay Order / Demand Draft of requisite tender fee (while original to be submitted with Part-I).

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

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

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

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

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

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

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

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

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

### **ESSENTIAL INSTRUCTIONS**

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

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

1. Techno -Commercial Bid
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](http://www.bhel.com).

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## **E-Procurement Portal Inputs**

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

## **Hardware and Software requirements for participating in e-tender**

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

## **Digital Signature**

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

## **NIC portal Helpdesk Contacts**

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

0120-4001 002

0120-4200 462

0120-4001 005

0120-6277 787

International bidders are requested to prefix 91 as country code

## **Email Support**

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

Technical - [support-eproc@nic.in](mailto: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.

**TERMS & CONDITIONS FOR PRE-FAB. M/C & FAB. ONLY OF AIR GUIDE COVER (WELDED, 0144040102800), AIR GUIDE COVER (WELDED, 0144040103100), COVER (WELDED, 1144040102300) & COVER (WELDED, 1144040103900)**

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.	Party material Weight /Piece (Kg)	BHEL Material Weight /Piece (Kg)	Total Weight/Piece (in kg.)
1	<b>AIR GUIDE COVER (WELDED)</b>	<b>0144040102800</b>	<b>5</b>	<b>1241.51</b>	<b>0.03</b>	<b>1241.54</b>
2	a. <b>AIR GUIDE COVER (WELDED)</b>	<b>0144040103100</b>	<b>5</b>	<b>656.177</b>	<b>18.073</b>	<b>674.24</b>
	b. <b>COVER (WELDED)</b>	<b>1144040102300</b>	<b>5</b>	<b>64.64</b>	<b>0</b>	<b>64.64</b>
	c. <b>COVER (WELDED)</b>	<b>1144040103900</b>	<b>5</b>	<b>63.78</b>	<b>0.86</b>	<b>64.64</b>

**Remark-**

1. T.R. OF THE DRAWINGS ARE TO BE STRICTLY FOLLOWED.
2. MATERIAL SCOPE FOR ITEM NO. 6 (AS PER CBOM) OF DRG.NO. 0144040102800 SHALL BE SUPPLIED BY BHEL AND REST WITH PARTY MATERIAL
3. MATERIAL FOR ITEM NO. 10, 11-1, 11-2, 15-2, 20, 22-2, 25, 26, 27, 28, 29 (AS PER CBOM) OF DRG. NO. 0144040103100 SHALL BE SUPPLIED BY BHEL AND REST WITH PARTY MATERIAL.
4. MATERIAL SCOPE FOR ITEM NO. 7-1, 7-2, 7-3 (AS PER CBOM) OF DRG.NO.1144040103900 SHALL BE SUPPLIED BY BHEL AND REST WITH PARTY MATERIAL.
5. Item no 2 (a, b & c) will be ordered together and L-1 vendor will be decided based on the cumulative cost of these three items.

- **TOTAL LOAD FOR THE Enquiry (Approximately) = 10225.35 Kg.**
- The rate (s) should be quoted in **Rupees/Pc.**
- Shot blasting if required will be done at BHEL.
- Cleaning of parts, removal of mill scale from components prior to assembly will be in scope of vendor.
- CHP Clearance may be obtained from NTPC/LLOYD/RITES/NPC at party's end.
- Final Assembly shall undergo cleaning to ensure that all parts are free from dents, mills, spatters.

- Customer's seal (if Any on supplied Material) to be transferred.
- Copies of the relevant certificates to be supplied to the receiving shop.
- Quality plan (if any) to be followed for Material induction and CHP.
- All special tests viz., UT, RT, HYDRAULIC & KEROSENE etc. are to be performed as per drg. requirements.
- Aesthetic appearance shall also be ensured and inspected before delivery to BHEL.
- Any Assembly, welding & NDT work as per drg/QP, if reqd. after SR/SB including customer clearance shall be done by supplier at BHEL.
- Vendor should submit manufacturing plan incl. technological support plan to BHEL & get it cleared prior to start of assembly.
- Relevant CBOM, details of material specifications, casting/forging drgs & all cross ref. docs must be send to vendors along with enquiry.
- Material used should be procured from BHEL approved vendors only.
- Supplier must furnish material test certificates for all the items.

**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/nicgep/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/nicgep/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	AIR GUIDE COVER (WELDED)	0144040102800	5	45 Days from Last material sent by BHEL
2	a. AIR GUIDE COVER (WELDED)	0144040103100	5	45 Days from Last material sent by BHEL (clubbed items)
	b. COVER (WELDED)	1144040102300	5	
	c. COVER (WELDED)	1144040103900	5	

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

6. **Bank Guarantee/Indemnity Bond:** - 25 % Bank Guarantee and 75% Indemnity Bond for the value of materials to be given by vendor for free issue materials. Material value will be calculated on PPMIV/Challan value basis. 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 01.04.2023 from BHEL, then vendor should mandatorily provide required BG and IB by 15.04.2023. In case, the vendor provides the same by 30.04.2023, then the difference of 15 days (between 30.04.2023 & 15.04.2023) 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 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 18%. However, it will be as applicable as per Govt. guidelines/circulars.

**12. QUALITY REQUIREMENTS: -**

- a. Inspection by BHEL/BHEL nominated inspection agency as per drawing /Standard and quality plan requirements.
- b. All party material to be procured from BHEL HEEP Haridwar approved sources (attached Annexure C).
- c. Quality plan no. QP/QA/216286 rev 00 dated 01.03.2023 is attached, which is to be followed.  
(For items: AIR GUIDE COVER (WELDED, 0144040102800), AIR GUIDE COVER (WELDED, 0144040103100), COVER (WELDED, 1144040102300) & COVER (WELDED, 1144040103900)

**13. REVERSE AUCTION: -**

“BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on [www.bhel.com](http://www.bhel.com)) for this tender. RA shall be conducted among 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](http://www.bhel.com).

**14. EVALUATION OF BIDS:**

**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.**

L1 Vendor must provide break up of Basic BM & PM rate (in Rs./Kg) post RA in price confirmation sheet.

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 not 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 Piece basis**.

19.1 In view of shop manufacturing capacity constraints & to cope up with the increased Fabrication/machining load, it is proposed to distribute load with 2 BHEL approved subcontractors or as the case may be as per Annexure-A. Distribution of items will be in the ratio of **3:2** between L1 & L2 vendors (as per details in Annexure-A). Load distribution shall be done after counter offering finalized L-1 rate to L-2 vendor.

19.2 If L-2 vendor does not accept the counter offered rate then subsequent vendors (L-3 to L-n (n is number of vendors)) shall be counter offered the finalized L-1 rate in sequence till we get one such vendor who accepts L1 rates. And Load Distribution will be done as per Annexure-A between L1 & L2 (other Such vendor who accepts the counter offer).

If none of the vendors participating in RA accepts the counter offer rate, then L-1 vendor shall be approached for quantity discount (for that additional quantities) before ordering whole quantity.

19.3 In case more than one bidder happens to occupy the L1 status even after discounts/RA/Negotiation, 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 decision in such case shall be final and binding. In case of any ambiguity, BHEL HWR decision will be final.

19.4 In case of any ambiguity, BHEL HWR decision will be final.

**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](https://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).

**21.** "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 outrightly rejected.
- In view of Covid-19 and present situation, 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://eprocurebhel.co.in/nicgep/app> ONLY**

Authorized Signature:

(with date & seal of company)

Name of Supplier: -

**Annexure - A****PRE-FAB. M/C & FAB. ONLY OF AIR GUIDE COVER (WELDED, 0144040102800), AIR GUIDE COVER (WELDED, 0144040103100), COVER (WELDED, 1144040102300) & COVER (WELDED, 1144040103900)**

OpenTender Enquiry No.: X/6620/2022/0707/F/1

Sl. No.	Item Description/Drg No.	MATERIAL BY	Qty	Weight in Kg / piece	Distribution of Load	Quoted/Not Quoted (Tick the correct option)
1	<b>AIR GUIDE COVER (WELDED) 0144040102800</b>	COMBINED MATERIAL	5 Nos.	<b>1241.54</b>	L1- 3 Nos. L2-2 Nos.	Quoted/Not Quoted
2	<b>a. AIR GUIDE COVER (WELDED) 0144040103100</b>	COMBINED MATERIAL	5 Nos.	<b>674.24</b>	L1 - 3 Set. (1 set means 2a + 2b+ 2c) L2 - 2 set.	Quoted/Not Quoted
	<b>b. COVER (WELDED) 1144040102300</b>	PARTY MATERIAL	5 Nos.	<b>64.64</b>		
	<b>c. COVER (WELDED) 1144040103900</b>	COMBINED MATERIAL	5 Nos.	<b>64.64</b>		

**Note: 1 set means here, combination of items against 2 a + 2 b + 2 c.**

**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.

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

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

**Annexure C****Approved party scope raw material supplier against items of enquiry**

<b>PMD NO --SL024</b>	
<b>S. NO</b>	<b>VENDORS/SUPPLIERS</b>
1	02851 SHAH BROTHERS ISPAT PVT. LTD. I0007021
2	06244 ARCELORMITTAL NIPPON STEEL I0002265
3	08166 STEEL AUTHORITY OF INDIA LTD I0000443
4	41307 JINDAL STEEL & POWER LTD. I0002230
5	41575 WELSPUN CORP LTD I0000006
6	70089 SUNLION PIPING ENGINEERING CO. F001742
7	72167 SALZGITTER MANNESMANN INTERNAT F001559
8	77007 DILLINGER INTERNATIONAL F000390
9	78004 STEEL FORCE ASIA NV-BEIGIUM F002684
10	78021 NLMK PLATES SALES SA F001330
11	90016 BURWILL RESOURCES LTD. F001060
12	90019 CUMIC STEEL LIMITED F001579
13	91021 DAEWOO INTERNATIONAL CORPORATI F000355
14	96026 SIJ ACRONI D.O.O. F001657
<b>PMD NO --SL039</b>	
<b>S. NO</b>	<b>VENDORS/SUPPLIERS</b>
1	02968 SANDOZ METALS (INDIA) I0000806
2	03598 ARCVAC FORGECAST PRIVATE LTD I0000654
3	04177 MAHAWAR IRON STORES PVT LTD I0005936
4	04191 SKYWAY STEEL INDUSTRIES I0013820
5	06068 STAR WIRE (INDIA) LTD. I0000670
6	08299 ALKA FORGINGS I0005653
7	09169 BHARAT HEAVY ELECTRICALS LTD. I0000185
8	16096 SAURABH METALS PVT. LTD. I0003271
9	19158 LAXCON STEELS LTD I0003509
10	20183 WELSPUN SPECIALTY SOLUTIONS I0002281
11	21050 ISMT LIMITED I0000327

12	21181 SAARLOHA ADVANCED MATERIALS I0001453
13	24025 RASHTRIYA ISPAT NIGAM LIMITED I0003241
14	40303 STEEL AUTHORITY OF INDIA LTD I0000443
15	41122 SUN FLAG IRON & STEEL CO. LTD. I0003923
16	41544 GORADIA SPECIAL STEEL LTD I0002883
<b>PMD NO --SL050</b>	
S. NO	VENDORS/SUPPLIERS
1	02968 SANDOZ METALS (INDIA) I0000806
2	04135 BHAWANI INDUSTRIES PRIVATE LTD I0002972
3	08166 STEEL AUTHORITY OF INDIA LTD I0000443
4	08360 K.L. STEELS (P) LIMITED I0003939
5	15017 RELIABLE SPONGE PVT LTD I0002966
6	17024 MAHAMAYA STEEL INDUSTRIES LTD I0002232
7	17025 NANDAN STEELS AND POWER LIMITE I0003747
8	17026 PRIME ISPAT LIMITED I0003943
9	17027 TOPWORTH STEELS & POWER PRIVAT I0000542
10	17029 MONNET ISPAT & ENERGY LIMITED I0003534
11	24025 RASHTRIYA ISPAT NIGAM LIMITED I0003241
12	41122 SUN FLAG IRON & STEEL CO. LTD. I0003923
13	41307 JINDAL STEEL & POWER LTD. I0002230
14	41353 P.R. ROLLING MILLS (P) LTD. I0006803
15	41642 SKS ISPAT & POWER LTD I0003954

**Material codewise pmd no and approved supplier****AIR GUIDE COVER (WELDED) DRG NO- 01440401028**

MATCODE	Description	Mat Size	Mat Spec	Applicable PMD	Approved supplier*
<a href="#">AA1010308050</a>	ST-A(FE410 WA)FLAT	50X8	AA10108	SL039	1 TO 4 ,9 TO 10
<a href="#">AA1011808013</a>	ST-A(FE410 WA)PLATE	5	AA10108	SL024	1,3,7 TO 10
<a href="#">AA1011819074</a>	ST-FE410 WB-PLATE	10	AA10119	SL024	1 TO 11 ,13 TO 14
<a href="#">AA1012508099</a>	ST-A(FE410 WA)ANGLE	65X65X6	AA10108	SL050	1 TO 3,5TO6,8,13,15
<a href="#">HW1012808980</a>	ST-A(FE410 WA)BEAM	150 X 75	AA10108	SL039	1 TO 4 ,9 TO 10

**AIR GUIDE COVER (WELDED) DRG NO- 01440401031**

MATCODE	Description	Mat Size	Mat Spec	Applicable PMD	Approved supplier*
<a href="#">AA1010308084</a>	ST-A(FE410 WA)FLAT	50X16	AA10108	SL039	1TO4 , 9 TO 10
<a href="#">AA1010308580</a>	ST-A(FE410 WA)FLAT	40X10	AA10108	SL039	1TO4 , 9 TO 10

<a href="#">AA1011808013</a>	ST-A(FE410 WA)PLATE	5	AA10108	SL024	1,3,7 TO 10
<a href="#">AA1011808030</a>	ST-A(FE410 WA)PLATE	6	AA10108	SL024	1,3,7 TO 10
<a href="#">AA1011808056</a>	ST-A(FE410 WA)PLATE	8	AA10108	SL024	1,3 , 7 TO 11
<a href="#">AA1011808099</a>	ST-A(FE410 WA)PLATE	12	AA10108	SL024	1,3 , 7 TO 11
<a href="#">AA1011819074</a>	ST-FE410 WB-PLATE	10	AA10119	SL024	1 TO 11 ,13 TO 14
<a href="#">AA1011819155</a>	ST-FE410 WB-PLATE	25	AA10119	SL024	1 TO 11 ,13 TO 14
<a href="#">AA1011819171</a>	ST-FE410 WB-PLATE	32	AA10119	SL024	1 TO 11 ,13 TO 14

**COVER(WELDED DRG NO-11440401023**

MATCODE	Description	Mat Size	Mat Spec	Applicable PMD	Approved supplier*
<a href="#">AA1011808013</a>	ST-A(FE410 WA)PLATE	5	AA10108	SL024	1,3,7 TO 10
<a href="#">AA1011808056</a>	ST-A(FE410 WA)PLATE	8	AA10108	SL024	1,3 , 7 TO 11
<a href="#">AA1012508056</a>	ST-A(FE410 WA)ANGLE	45X45X5	AA10108	SL050	1 TO 2 ,13

**COVER(WELDED DRG NO-11440401039**

MATCODE	Description	Mat Size	Mat Spec	Applicable PMD	Approved supplier*
<a href="#">AA1011808013</a>	ST-A(FE410 WA)PLATE	5	AA10108	SL024	1,3,7 TO 10
<a href="#">AA1011808056</a>	ST-A(FE410 WA)PLATE	8	AA10108	SL024	1,3 , 7 TO 11
<a href="#">AA1012508056</a>	ST-A(FE410 WA)ANGLE	45X45X5	AA10108	SL050	1 TO 2 ,13



**TERMS AND CONDITIONS FOR Enquiry No.X/6620/2022/0707/F/1**

SL.	TERMS	VENDOR'S ACCEPTANCE/ REMARKS
1	<u>Scope of Work:</u> - 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 45 days as per clause 5.0 of T& C of enquiry.	
6	Bank Guarantee/Indemnity Bond: 25% BG & 75% 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 <b>18 months</b> . (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 as per standard policy of BHEL.	
19	Distribution of Load: 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 -20.10)	
21	Conflict of Interest:Confirm acceptance of Clause 21.0 of T & C of Enq.	
22	Duly Filled Annexure A (Unpriced- Quoted / Not Quoted)	
22	We have submitted Make in India certificate (duly filled and signed as per Annexure-B).	
23	We accept all terms and conditions of GISTC Rev. 06.	
24	<b>Rates have been quoted in indian Rupees on per Piece basis.</b>	
25	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)**



Item : Items of Indent no: 20220707  
PRE-QUALIFICATION REQUIREMENT

01.00	TECHNICAL REQUIREMENT	Required	Vendor's Offer
01.01	Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of <b>atleast 1 no. Air Guide Cover Fabricated assembly or equivalent having size 2000X1000mmX2000mm (LXBXH) and above and weight 1 Tons and above in last 7 years from the date of enquiry.</b>	Vendor to Comply & submit suitable evidence	
01.02	<b>Facilities Required:</b> i) Lifting facility and capacity at vendor works should EOT crane 2 Tons and above. ii) Vendor must have levelled bed plate size : Length= 2,500mm and Breadth=1,500mm and above to fabricate the job (Note: Concrete floor not acceptable). (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 cutting facility to cut plate of thickness 10 mm and above. (v) Vendor must have rolling bending facility of plate thickness 10mm and above at width of 1000mm and above. (vi) Vendor must have drilling facility to drill holes of dia.30mm and above in plate thickness of 10mm and above	Vendor to Comply & submit suitable evidence including technical specifications, technical brochure, photographs etc. of the facilities.	
01.03	Vendor to furnish certificate against clause 01.01 from the customer / company or end user duly confirming that <b>Air Guide Cover Fabricated assembly or equivalent having size 2000X1000mmX2000mm (LXBXH) and above and weight 1 Tons and above</b> 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 <b>Air Guide Cover Fabricated assembly or equivalent having size 2000X1000mmX2000mm (LXBXH) and above and weight 1 Tons and above.</b>	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	-1-
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	

NOTE: PQR is not restrictive

25/04/2023  
[Ravi D. Deshpande  
Manager (WT)]

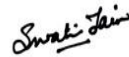

Santosh  
25/4/23  
[Santosh Gonal  
Mgt/WT]

BSC  
25.04.2023  
(BSC Amn)  
AGT-WT



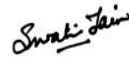

Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO		
BHEL Haridwar approved vendors/sub-contractors only		ITEM/ EQUIPM- ENTS	AIR GUIDE COVER (WELDED), COVER (WELDED), OBSERVATION PORT (ITEM NO. 1 TO 5 OF SIR) – PRE FAB M/c & FAB. ONLY.					Q.P. NO	QP/QA/216286					
								DATE	02.03.2023					
								REV. NO.	00			CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	1 of 3			SIR	SIR No. 2G20220008 dated 01.03.2023	
Sl. No.	COMPONENT OPERATION	CHARACTRISTIC CHECKED	CATEGORY	TYPE/ METHOD OF CHECKED	QUANT-UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE DOCUMENT	FORMAT OF RECORD	D	AGENCY			REMARKS	
										M	B	C		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

1	Material Receiving Inspection	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	-	All party material to be procured from BHEL, Haridwar approved sources with following condition: In all the cases a mill test certificate correlating with the component for verification of conformance of the material as per the requirement is essential.
2	<b>IN PROCESS-INSPECTION</b>												
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	-	-	

<b>Manufacturer/Subcontractor</b>		<b>Legends:</b> 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.	<b>For BHEL Use</b>  <div>             स्वाती जैन            प्रबंधक            गुणता आश्वासन         </div> <div>             ब्रज भूषण त्रिपाठी            वरिष्ठ प्रबंधक            गुणता आश्वासन         </div>
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO	
BHEL Haridwar approved vendors/sub-contractors only		ITEM/ EQUIPM- ENTS	AIR GUIDE COVER (WELDED), COVER (WELDED), OBSERVATION PORT (ITEM NO. 1 TO 5 OF SIR) – PRE FAB M/c & FAB. ONLY.					Q.P. NO	QP/QA/216286				
								DATE	02.03.2023				
								REV. NO.	00		CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	2 of 3		SIR	SIR No. 2G20220008 dated 01.03.2023	
Sl. No.	COMPONENT OPERATION	CHARACTRISTIC CHECKED	CATEGORY	TYPE/ METHOD OF CHECKED	QUANT-UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE DOCUMENT	FORMAT OF RECORD	D	AGENCY			REMARKS
										M	B	C	
1	2	3	4	5	6	7	8	9	10	11	12	13	14

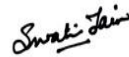

		iii) Edge preparation	Minor	Measurement	100%	As per drg./ Standard	As per drg./ Standard	-	-	P	-	-	
2.3	Welding Operation	i) Fit up	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	V	-	1) BHEL approved electrode shall be used during welding 2) Qualified welders by BHEL /BHEL 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		
3	<b>FINAL INSPECTION</b>												
3.1		i) Verification of dimension & inspection	Major	Visual & measurement	100%	As per drg./ Standard	As per drg./ Standard	Obs. Sheet	√	P	W	-	
		iii) Painting & preservation	Major	Visual	100%	As per drg./ Standard	As per drg./ Standard	Obs. sheet	√	P	W	-	

<b>Manufacturer/Subcontractor</b>		<b>Legends:</b> 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.	<b>For BHEL Use</b>  <div>             स्वाती जैन            प्रबंधक            गुणता आश्वासन         </div> <div>             ब्रज भूषण त्रिपाठी            वरिष्ठ प्रबंधक            गुणता आश्वासन         </div>
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Manufacturer Name and Address		MANUFACTURING QUALITY PLAN										APPLICABILITIES TO		
BHEL Haridwar approved vendors/sub-contractors only		ITEM/ EQUIPM- ENTS	AIR GUIDE COVER (WELDED), COVER (WELDED), OBSERVATION PORT (ITEM NO. 1 TO 5 OF SIR) – PRE FAB M/c & FAB. ONLY.					Q.P. NO	QP/QA/216286					
								DATE	02.03.2023					
								REV. NO.	00			CONTRACTOR	BHEL (HEEP) HWR	
								PAGE NO.	3 of 3			SIR	SIR No. 2G20220008 dated 01.03.2023	
Sl. No.	COMPONENT OPERATION	CHARACTRISTIC CHECKED	CATEGORY	TYPE/ METHOD OF CHECKED	QUANT-UM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE DOCUMENT	FORMAT OF RECORD	D	AGENCY			REMARKS	
										M	B	C		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	

		iv) Completeness of Job, Documentation	Major	Visual	-	-	Drg./QP	Record	-	P	V	-	Item shall be dispatched to BHEL after acceptance by BHEL nominated agency after duly identifying by punching P.O. No., drg no. Plant Order No. and I.R. No.
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Note: All requirements of P.O., drawing and standard shall be fulfilled.

<b>Manufacturer/Subcontractor</b>		<b>Legends:</b> 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.	<b>For BHEL Use</b>  स्वाती जैन प्रबंधक गुणता आश्वासन	 ब्रज भूषण त्रिपाठी वरिष्ठ प्रबंधक गुणता आश्वासन
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## COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401031 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 5

Rev Date: 18.05.2020

Total weight: 674.07

### RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
01440401031	00	1	01.03.2013	IT.14 UPDATED
01440401031	00	2	27.12.2013	Auto Revision 41440401020/00
01440401031	00	3	02.01.2015	Mat. code. of it.20 changed.
01440401031	00	4	24.01.2017	item 12 added & quantity of item 2 updated.
01440401031	00	5	23.11.2019	item-2 replaced.

CBOM - 01440401031 00

ENGG

EMT

WTX

	Initial	Date	Initial	Date	Initial	Date
Worked By	tguessm	01.07.2010	emtpkp	26.07.2010	wtxis	30.07.2010
Checked By	tguessm	01.07.2010	emtajt	03.08.2010	wtxhpr	30.07.2010
Approved By	tgevk	05.08.2010	emtsk	03.08.2010	wtxhpr	30.07.2010



# COMBINED BILL OF MATERIAL

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CBOM No: 01440401031 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 5

Rev Date: 18.05.2020

Total weight: 674.07

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
0	01440401031 00			674.07						
1(1)	AIR GUIDE COVER (WELDED)			Y						
MF DR			N	674.25	0306-0314-0202					
1	41440401311 00 00	AA1011808099	AA10108	2.87	170.0X320.0	1	4	5.39	0.0	21.56
4(4)	SHEET			Y	PL 12					
MF DR					0072-0301-0317-0306					KG
2	41440401351 00	AA1011808013	AA10108	1.255	295.0X165.0	1	9	2.0	0.0	18.0
9(9)	SHEET			Y	PL 5					
MF DR					0072-0301-0306					KG
3	41440401010 00 00	AA1011808030	AA10108	19.5	540.0X766.0	1	2	22.5	0.0	45.0
2(2)	SHEET		BOR 01440401003	Y	PL 6					
MF DR					0072-0301-0306					KG
4	31440401145 00 00	AA1011808099	AA10108	8.482	230.0X1140.0	1	4	30.0	0.0	120.0
4(4)	SHEET			Y	PL 12					
MF DR					0072-0301-0317-0306					KG
5	31440401010 00 00	AA1011808030	AA10108	62.642	540.0X2458.0	1	1	75.2	0.0	75.2
1(1)	SHEET		BOR 01440401003	Y	PL 6					
MF DR					0072-0301-0306					KG
6	31440401147 00 00	AA1011808030	AA10108	26.031	300.0X1920.0	1	1	28.5	0.0	28.5
1(1)	SHEET			Y	PL 6					
MF DR					0072-0301-0306					KG
7	41440401011 00 00	AA1011819074	AA10119	44.5	785.0X1570.0	1	2	97.4	0.0	194.8
2(2)	SHEET		BOR 01440401003	Y	PL 10					
MF DR					0072-0301-0306					KG
8	41440401020 00 00	AA1011819074	AA10119	0.66	100.0X115.0	1	4	1.0	0.0	4.0
4(4)	LIFTING LUG		BOR 01440401003	Y	PL 10					
MF DR					0072-0301-0306					KG
9	31440401011 00 00	AA1010308580	AA10108	6.296	1993.0	1	2	7.6	0.0	15.2
2(2)	FLAT		BOR 01440401003	Y	REC 40X10			L=1993		
MF DR					0072-0301-0306					KG

## ENGG

## EMT

## WTX

Worked By	tgessm	01.07.2010	emptkp	26.07.2010	wtxis	30.07.2010
Checked By	tgessm	01.07.2010	emtajt	03.08.2010	wtxhpr	30.07.2010
Approved By	tgevk	05.08.2010	emtsk	03.08.2010	wtxhpr	30.07.2010



# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401031 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 5

Rev Date: 18.05.2020

Total weight: 674.07

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Type Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
10	41440401045 00 00	AA1020218070	AA10218	0.013	55.0	1	2	0.049	0.0	0.098
2(2)	STUD		BOR01440401003	Y	RND 12		L=55			
MF DR					0072-0315-0317-0306					KG
11	21440401002 00			0.42						
2(2)	FRAME		BOR 01440401003	Y						
MF DR			N		0321-0306					
11-1	41440401044 00 00	AA1011711141	AA10111	0.054	15.0X160.0	1	8	0.065	0.0	0.52
4(8)	SHEET		BOR 01440401003	Y	SH 3.15					
MF DR					0072-0321					KG
11-2	41440401043 00 00	AA1011711141	AA10111	0.047	12.0X160.0	1	8	0.056	0.0	0.448
4(8)	SHEET		BOR 01440401003	Y	SH 3.15					
MF DR					0072-0321					KG
12	41440401338 00 00	AA1011808013	AA10108	1.18	295.0X165.0	1	1	2.0	0.0	2.0
1(1)	SHEET			Y	PL 5					
MF DR					0072-0301-0306					KG
13		AA1010308084	AA10108	2.3	400.0	1	1	3.0	0.0	3.0
1(1)	FLAT 16X50X400			Y	REC 50X16		L=400			
MF DR	ST-A(FE410 WA)FLAT				0072-0301-0306					KG
14	41440401324 00 00	AA1011808030	AA10108	13.379	951.0X300.0	1	4	14.2	0.0	56.8
4(4)	SHEET			Y	PL 6					
MF DR					0072-0301-0306					KG
15	31440401015 00			18.04						
1(1)	SUPPORT		BOR 01440401003	Y						
MF DR			N		0306					
15-1	31440401014 00 00	AA1011808056	AA10108	14.49	450.0X510.0	1	1	20.6	0.0	20.6
1(1)	SHEET		BOR 01440401003	Y	PL 8					
MF DR					0072-0301-0306					KG
15-2		AA1011052580	AA10152	3.45	510.0	1	1	0.51	0.0	0.51
1(1)	TUBE 60.8X4.5X510			Y	PI 60.8X4.50		L=510			
MF DR	ST-ERW-TUBE				0072-0315-0306					MR

## ENGG

## EMT

## WTX

	Initial	Date	Initial	Date	Initial	Date
Worked By	tguessm	01.07.2010	emptpkp	26.07.2010	wtxis	30.07.2010
Checked By	tguessm	01.07.2010	emtajt	03.08.2010	wtxhpr	30.07.2010
Approved By	tgevk	05.08.2010	emtsk	03.08.2010	wtxhpr	30.07.2010





# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401031 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 5

Rev Date: 18.05.2020

Total weight: 674.07

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Type Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
16	41440401012 00 00	AA1011819074	AA10119	32.0	775.0X785.0	1	4	58.4	0.0	233.6
4(4)	SHEET		BOR 01440401003	Y	PL 10					
MF DR					0072-0301-0306					KG
17	31440401012 00 00	AA1010308580	AA10108	3.125	40.0X1388.0	1	4	5.5	0.0	22.0
4(4)	FLAT		BOR 01440401003	Y	REC 40X10					
MF DR					0072-0301-0306					KG
18		AA1011819171	AA10119	12.7	60.0X842.0	1	4	15.4	0.0	61.6
4(4)	STRIP 32X60X842			Y	PL 32					
MF DR	ST-FE410 WB-PLATE				0072-0301-0306					KG
19	41440401038 00 00	AA1011819171	AA10119	8.0	60.0X530.0	1	2	8.3	0.0	16.6
2(2)	STRIP		BOR 01440401003	Y	PL 32					
MF DR					0072-0301-0306					KG
20		HW1041046839	AA10446	1.017	510.0	1	1	0.51	0.0	0.51
1(1)	TUBE 33.7X2.6X510			Y	PI 33.7X2.6			L=510		
MF DR	ST-BQ-A1-CDS-TUBE				0072-0315-0306					MR
21	31440401144 00 00	AA1011808030	AA10108	24.353	300.0X1920.0	1	1	28.5	0.0	28.5
1(1)	SHEET			Y	PL 6					
MF DR					0072-0301-0306					KG
22	31440401016 00			13.85						
1(1)	SUPPORT		BOR 01440401003	Y						
MF DR			N		0306					
22-1	41440401041 00 00	AA1011808056	AA10108	10.301	320.0X510.0	1	1	12.4	0.0	12.4
1(1)	SHEET		BOR 01440401003	Y	PL 8					
MF DR					0072-0301-0306					KG
22-2		AA1011052580	AA10152	3.45	510.0	1	1	0.51	0.0	0.51
1(1)	TUBE 60.8X4.5X510			Y	PI 60.8X4.50			L=510		
MF DR	ST-ERW-TUBE				0072-0315-0306					MR
23	31440401017 00 00	AA1011808056	AA10108	30.42	510.0X945.0	1	1	36.5	0.0	36.5
1(1)	SHEET		BOR 01440401003	Y	PL 8					
MF DR					0072-0301-0306					KG

## ENGG

## EMT

## WTX

Worked By	tguessm	01.07.2010	emptpkp	26.07.2010	wtxis	30.07.2010
Checked By	tguessm	01.07.2010	emtajt	03.08.2010	wtxhpr	30.07.2010
Approved By	tgevk	05.08.2010	emtsk	03.08.2010	wtxhpr	30.07.2010



# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401031 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 5

Rev Date: 18.05.2020

Total weight: 674.07

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
24	41440401040 00 00	AA1011808056	AA10108	13.52	420.0X510.0	1	1	16.2	0.0	16.2
1(1)	SHEET		BOR 01440401003	Y	PL 8					
MF DR					0072-0301-0306					KG
25		AA7121123371	AA7121123	0.039	0.0	0	0	0.0	0.0	58.0
58(58)	SCRU HEX A- 8.8			Y						
SI DR	M12X35				0075-0306					NO
26		HW7169098024	HW7169098	0.005	0.0	0	0	0.0	0.0	58.0
58(58)	WASHER LOCK WITH LUG-ST			Y						
SI DR	13				0075-0306					NO
27		AA7151115040	AA7151115	0.017	0.0	0	0	0.0	0.0	58.0
58(58)	NUT HEX. A-8			Y						
SI DR	M12				0075-0306					NO
28	41440401312 00 00	AA1011715112	AA10115	0.71	170.0X320.0	1	2	0.9	0.0	1.8
2(2)	SHEET		TECHNOLOGICAL	Y	SH 2.00					
MF DR					0072-0321-0317-0306					KG
29	31440401146 00 00	AA1011715112	AA10115	2.182	230.0X1140.0	1	2	4.3	0.0	8.6
2(2)	SHEET		TECHNOLOGICAL	Y	SH 2.00					
MF DR					0072-0321-0317-0306					KG
30	31440401070 00 00	AA1011819155	AA10119	2.39	220.0X220.0	1	1	10.0	0.0	10.0
1(1)	FLANGE		CBOM01440401011	Y	PL 25			DIA 220/116		
MF DR					0072-0301-0317-0306					KG

CB

ENGG

EMT

WTX

Initial

Date

Initial

Date

Initial

Date

Worked By

tguessm

01.07.2010

emptpkp

26.07.2010

wtxis

30.07.2010

Checked By

tguessm

01.07.2010

emtajt

03.08.2010

wtxhpr

30.07.2010

Approved By

tgevk

05.08.2010

emtsk

03.08.2010

wtxhpr

30.07.2010



## COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401028 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 2

Rev Date: 11.01.2020

Total weight: 1241.54

### RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
01440401028	00	1	05.12.2019	MAT CODE OF ITEM NO. 7,10,14,17 AND 19 ARE CHANGED. ITEM NO. 11 IS REPLACED.

CBOM - 01440401028 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tguessm	23.06.2010	emtncg	21.07.2010	wtxtsc	20.07.2010
Checked By	tguessm	28.06.2010	emtsk	21.07.2010	wtxtsc	20.07.2010
Approved By	tgevk	21.07.2010	emtsk	21.07.2010	wtxhpr	21.07.2010



# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401028 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 2

Rev Date: 11.01.2020

Total weight: 1241.54

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Type Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
0	01440401028 00			1241.54						
1(1)	AIR GUIDE COVER (WELDED)			Y						
MF DR	800MW B'LESS EXCITER		Y	1241.54	0306-0205					
1	31440401141 00 00	AA1011808013	AA10108	145.6	1918.0X1968.0	1	1	155.8	0.0	155.8
1(1)	PLATE			Y	PL 5					
MF DR					0072-0301-0306					KG
2	31440401142 00 00	AA1011819074	AA10119	135.0	1850.0X1918.0	1	1	180.0	0.0	180.0
1(1)	PLATE			Y	PL 10					
MF DR					0072-0301-0306					KG
3	41440401052 00 00	AA1011808013	AA10108	40.0	766.0X1330.0	1	2	48.0	0.0	96.0
2(2)	PLATE		CBOM91440401002	Y	PL 5					
MF DR					0072-0301-0306					KG
4	41440401047 00 00	AA1011819074	AA10119	105.9	1850.0X1918.0	1	2	306.0	0.0	612.0
2(2)	PLATE		CBOM91440401002	Y	PL 10					
MF DR					0072-0301-0306					KG
5	41440401046 00 00	AA1011819074	AA10119	102.4	1850.0X1918.0	1	1	306.0	0.0	306.0
1(1)	PLATE		CBOM91440401002	Y	PL 10					
MF DR					0072-0301-0306					KG
6		AA7151115024	AA7151115	0.005	0.0	0	0	0.0	0.0	6.0
6(6)	NUT HEX. A-8			Y						
SI DR	M8				0075-0306					NO
7	41440401302 00	HW1012808980	AA10108	3.8	540.0	1	3	4.0	0.0	12.0
3(3)	PROFILE		CUT TO SIZE	Y	150 X 75					
MF DR					0072-0301-0317-0306					KG
8		AA1011808013	AA10108	145.2	1874.0X1968.0	1	1	152.2	0.0	152.2
1(1)	PLATE 5X1874X1968			Y	PL 5					
MF DR	ST-A(FE410 WA)PLATE				0072-0301-0306					KG
9	41440401068 00 00	HW1012808980	AA10108	14.5	2000.0	1	4	15.0	0.0	60.0
4(4)	PROFILE		CBOM91440401002	Y	150 X 75			2 no. to be Cut		
MF DR					0072-0301-0306					KG

## ENGG

## EMT

## WTX

Worked By	tgessm	23.06.2010	emtncg	21.07.2010	wtxtsc	20.07.2010
Checked By	tgessm	28.06.2010	emtsk	21.07.2010	wtxtsc	20.07.2010
Approved By	tgevk	21.07.2010	emtsk	21.07.2010	wtxhpr	21.07.2010



# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401028 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 2

Rev Date: 11.01.2020

Total weight: 1241.54

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
10	41440401304 00	HW1012808980	AA10108	7.8	1070.0	1	7	8.0	0.0	56.0
7(7)	PROFILE		CUT TO SIZE	Y	150 X 75					
MF DR					0072-0301-0306					KG
11	41440401352 00	HW1012808980	AA10108	13.8	1880.0	1	2	14.0	0.0	28.0
2(2)	PROFILE		CUT TO SIZE	Y	150 X 75					
MF DR					0072-0301-0306					KG
12	41440401305 00 00	AA1012508099	AA10108	10.8	1968.0	1	2	14.0	0.0	28.0
2(2)	PROFILE		CUT TO SIZE	Y	65X65X6					
MF DR					0072-0301-0317-0306					KG
13	31440401143 00 00	AA1011808013	AA10108	144.7	1918.0X1968.0	1	1	155.8	0.0	155.8
1(1)	PLATE			Y	PL 5					
MF DR					0072-0301-0317-0306					KG
14	41440401306 00	HW1012808980	AA10108	2.4	338.0	1	4	3.0	0.0	12.0
4(4)	PROFILE		CUT TO SIZE	Y	150 X 75					
MF DR					0072-0301-0317-0306					KG
15		AA1010308050	AA10108	0.8	250.0	1	8	0.9	0.0	7.2
8(8)	FLAT 50X8 , L=250			Y	REC 50X8					
MF DR	ST-A(FE410 WA)FLAT				0072-0301-0306					KG
16	41440401062 00 00	AA1011819074	AA10119	1.0	60.0X207.0	1	6	1.2	0.0	7.2
6(6)	STRIP		CBOM91440401002	Y	PL 10					
MF DR					0072-0301-0306					KG
17	41440401303 00	HW1012808980	AA10108	3.9	540.0	1	4	4.0	0.0	16.0
4(4)	PROFILE		CUT TO SIZE	Y	150 X 75					
MF DR					0072-0301-0306					KG
18	41440401061 00 00	AA1011819074	AA10119	0.5	60.0X150.0	1	2	0.6	0.0	1.2
2(2)	STRIP		CBOM91440401002	Y	PL 10					
MF DR					0072-0301-0306					KG
19	41440401307 00	HW1012808980	AA10108	2.4	338.0	1	4	3.0	0.0	12.0
4(4)	PROFILE		CUT TO SIZE	Y	150 X 75					
MF DR					0072-0301-0306					KG

**ENGG****EMT****WTX**

Worked By	tgessm	23.06.2010	emtncg	21.07.2010	wtxtsc	20.07.2010
Checked By	tgessm	28.06.2010	emtsk	21.07.2010	wtxtsc	20.07.2010
Approved By	tgevk	21.07.2010	emtsk	21.07.2010	wtxhpr	21.07.2010



## COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 01440401028 CBOM Var: 00  
Description: AIR GUIDE COVER (WELDED)

Revno: 2

Rev Date: 11.01.2020

Total weight: 1241.54

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit

CBOM - 01440401028 00

	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tguessm	23.06.2010	emtncg	21.07.2010	wtxtsc	20.07.2010
Checked By	tguessm	28.06.2010	emtsk	21.07.2010	wtxtsc	20.07.2010
Approved By	tgevk	21.07.2010	emtsk	21.07.2010	wtxhpr	21.07.2010



## COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 11440401023

CBOM Var: 00

Revno: 1

Rev Date: 22.11.2002

Description: COVER(WELDED)

Total weight: 64.64

### RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
11440401023	00	1	25.10.2002	change in item 8-1-1,8-1-3

CBOM - 11440401023 00

#### ENGG

Initial	Date
tgevk	11.09.2001
tgevk	11.09.2001
tgekr	12.11.2001

#### EMT

Initial	Date
emtrps	17.10.2001
emtskk	17.10.2001
emtskt	06.11.2001

#### WTX

Initial	Date
wtxrsc	04.10.2001
wtxrsc	04.10.2001
wtxyss	04.10.2001

Worked By

Checked By

Approved By



# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 11440401023 CBOM Var: 00  
Description: COVER(WELDED)

Revno: 1

Rev Date: 22.11.2002

Total weight: 64.64

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
0	11440401023 00			64.64						
1(1)	COVER(WELDED)			Y						
MF DR			N		0306-0314-0202					
1	31440401068 00 00	AA1012508056	AA10108	2.81	1396.0	1	2	4.3	0.0	8.6
2(2)	ANGLE			Y	45X45X5		L=1396			
MF DR					0072-0301-0306					KG
2	41440401177 00 00	AA1011808056	AA10108	12.26	390.0X885.0	1	2	23.84	0.0	47.68
2(2)	SHEET			Y	PL 8					
MF DR					0072-0301-0306					KG
3	31440401069 00 00	AA1012508056	AA10108	5.57	2382.0	1	1	7.1	0.0	7.1
1(1)	ANGLE			Y	45X45X5		L=2382			
MF DR					0072-0301-0306					KG
4	41440401178 00 00	AA1011808056	AA10108	24.36	610.0X1210.0	1	1	50.9	0.0	50.9
1(1)	SEGMENT			Y	PL 8					
MF DR					0072-0301-0306					KG
5	31440401074 00 00	AA1011808013	AA10108	2.0	270.0X1028.0	1	1	11.98	0.0	11.98
1(1)	PLATE			Y	PL 5					
MF DR					0072-0301-0306					KG
6	31440401075 00 00	AA1011808013	AA10108	1.0	220.0X600.0	1	2	2.85	0.0	5.7
2(2)	PLATE			Y	PL 5					
MF DR					0072-0301-0306					KG

CB

ENGG

EMT

WTX

Initial

Date

Initial

Date

Initial

Date

Worked By

tgevk

11.09.2001

emtrps

17.10.2001

wtxrsc

04.10.2001

Checked By

tgevk

11.09.2001

emtskk

17.10.2001

wtxrsc

04.10.2001

Approved By

tgekr

12.11.2001

emtskt

06.11.2001

wtxyss

04.10.2001





## COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 11440401039 CBOM Var: 00

Revno: 2

Rev Date: 31.01.2015

Description: COVER (WELDED)

Total weight: 64.64

### RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
11440401039	00	1	15.01.2015	Auto Revision 31440401150/00
11440401039	00	2	31.01.2015	Auto Revision 31440401150/00

CBOM - 11440401039 00

#### ENGG

Initial	Date
tguessm	01.07.2010
tguessm	01.07.2010
tgevk	05.08.2010

#### EMT

Initial	Date
emptkp	26.07.2010
emtajt	03.08.2010
emtsk	03.08.2010

#### WTX

Initial	Date
wtxis	30.07.2010
wtxhpr	30.07.2010
wtxhpr	30.07.2010

Worked By  
Checked By  
Approved By



# COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 11440401039 CBOM Var: 00  
Description: COVER (WELDED)

Revno: 2

Rev Date: 31.01.2015

Total weight: 64.64

Item No	Drawingno Var Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description		Assy. Remarks	Inclusion?	Mat Shape		Remarks			
Typ Cat Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
0	11440401039 00			64.64						
1(1)	COVER (WELDED)			Y						
MF DR			N		0306-0202					
1	31440401068 00 00	AA1012508056	AA10108	2.81	1396.0	1	2	4.3	0.0	8.6
2(2)	ANGLE		CBOM01440401011	Y	45X45X5		L=1396			
MF DR					0072-0301-0306					KG
2	41440401177 00 00	AA1011808056	AA10108	12.26	390.0X885.0	1	2	23.84	0.0	47.68
2(2)	SHEET		CBOM01440401011	Y	PL 8					
MF DR					0072-0301-0306					KG
3	31440401069 00 00	AA1012508056	AA10108	5.57	2382.0	1	1	7.1	0.0	7.1
1(1)	ANGLE		CBOM01440401011	Y	45X45X5		L=2382			
MF DR					0072-0301-0306					KG
4	41440401310 00 00	AA1011808056	AA10108	24.36	610.0X1210.0	1	1	48.7	0.0	48.7
1(1)	PLATE			Y	PL 8					
MF DR					0072-0301-0306					KG
5	31440401074 00 00	AA1011808013	AA10108	2.0	270.0X1028.0	1	1	11.98	0.0	11.98
1(1)	PLATE		CBOM01440401011	Y	PL 5					
MF DR					0072-0301-0306					KG
6	31440401075 00 00	AA1011808013	AA10108	1.0	220.0X600.0	1	2	2.85	0.0	5.7
2(2)	PLATE		CBOM01440401011	Y	PL 5					
MF DR					0072-0301-0306					KG
7	31440401150 00			0.86						
1(1)	PIPE ASSY.			Y						
MF DR			N		0315					
7-1	41440401313 00 00	AA1041146108	AA10446	0.24	55.0	1	1	0.055	0.0	0.055
1(1)	PIPE			Y	PI 48.3X5					
MF DR					0072-0315-0317-0315					MR
7-2	41440401315 00 00	W96413901683	TG60123	0.2	0.0	0	0	0.0	0.0	1.0
1(1)	BEND		CUT TO DRG.	Y	48.3X3.2					
MF DR					0074-0315					NO

**ENGG****EMT****WTX**

Worked By	tguessm	01.07.2010	emptpkp	26.07.2010	wtxis	30.07.2010
Checked By	tguessm	01.07.2010	emtajt	03.08.2010	wtxhpr	30.07.2010
Approved By	tgevk	05.08.2010	emtsk	03.08.2010	wtxhpr	30.07.2010



## COMBINED BILL OF MATERIAL

Printed On:27.04.2023

Printed By:

CBOM No: 11440401039 CBOM Var: 00

Revno: 2

Rev Date: 31.01.2015

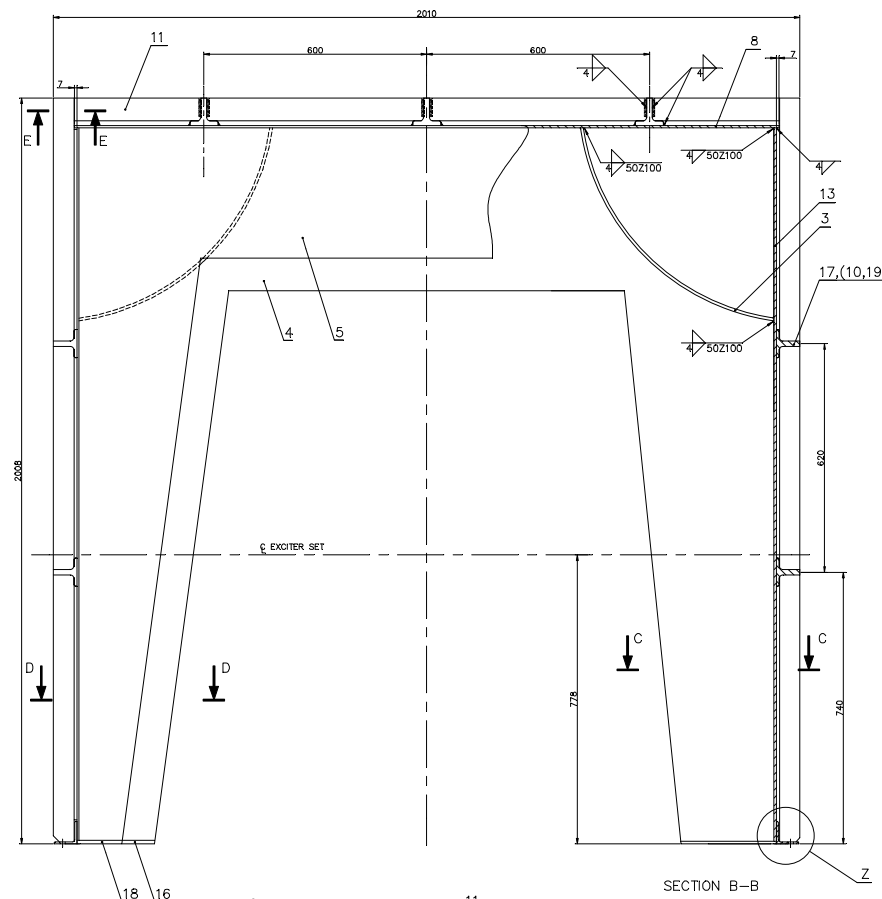
Description: COVER (WELDED)

Total weight: 64.64

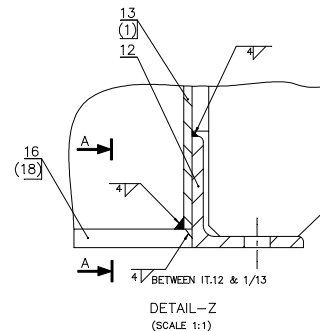
Item No	Drawingno	Var	Mvar	Mat Code	Mat Spec	Weight	Blank Sizes	Nos	Qty	Norm/pc	Extra Norm	Total Norm
Qty( Total )	Description				Assy. Remarks	Inclusion?	Mat Shape			Remarks		
Typ	Cat	Zone	Var/Matl. Description		ENGG SIZE/GRP	Fab Wt	Route				Spare Code	Unit
7-3	41440401314	00 00	AA1041146108	AA10446		0.42	110.0	1	1	0.11	0.0	0.11
1(1)	PIPE					Y	PI 48.3X5					
MF	DR						0072-0315-0317-0315					MR

CBOM - 11440401039 00

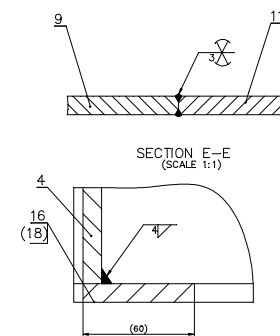
	ENGG		EMT		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	tguessm	01.07.2010	emtpkp	26.07.2010	wtxis	30.07.2010
Checked By	tguessm	01.07.2010	emtajt	03.08.2010	wtxhpr	30.07.2010
Approved By	tgevk	05.08.2010	emtsk	03.08.2010	wtxhpr	30.07.2010



SECTION B-B






DETAIL-Z  
(SCALE 1:1)



SECTION E—  
(SCALE 1:1)

SECTION A-A  
(SCALE 1:1)

1. MARK IDENTIFICATION ACCORDING TO HW040397.
2. QUALITY GRADES OF WELDS AS PER HW0620099 C/Cs.
3. TEST SCOPE ACCORDING TO HW0501939, CATEGORY OF SERVICE REQUIREMENTS 4.
4. MAINTAIN FEE PARALLEL TO HORIZONTAL AXIS AND ALL VERTICAL MEMBERS PERPENDICULAR TO HORIZONTAL AXIS. THIS IS ESSENTIAL TO GROUP FORMS A CLOSED AND SEALED HOOD AROUND MAIN EXITER OPERATING AT 3000RPM, GENERATING HEAVY CURRENT FOR 800MW TG ROTOR.
5. A SHAFT MOUNTED FAN BLOWS AIR INTO THE AIR GUIDE COVERS & HOT AIR IS DISCHARGED FROM THE BOTTOM OF COVERS.
6. DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY.
7. SURFACE TREATMENT ACCORDING TO TECHNOLOGICAL INSTRUCTION NO. 0912.015.

SYMBOL & SIZE OF SEAM	4 	3 	4 
SEAM LENGTH M.	85.500	0.740	0.250
WT. OF DEPOSITED METAL Kg.	5.370	0.500	0.150
TYPE OF ELECTRODE	E-7018		

[illegible]



SYMBOL AND SIZE OF SEAM	2b	4b	8b	7b	8b	12b
SEAM LENGTH M.	0.872	81.388	0.880	0.120	2.040	0.12
WEIGHT OF DEPOSITED METAL KG.	0.025	7.650	0.296	0.045	0.515	0.10
TYPE OF ELECTRODE	E-7018					



### MANUFACTURING PROCEDURE FOR OFF LOADING

- BEFORE STARTING WELDING CLAMP ALL JOINT FLANGES USING ITEMS 25 TO 29. TACK WELD ALL ITEMS. WELD FIRST AT JOINT FLANGES.
- ACHIEVE PROPER MATCHING AT JOINT FLANGES BY MARGINAL GRIND IF NECESSARY.

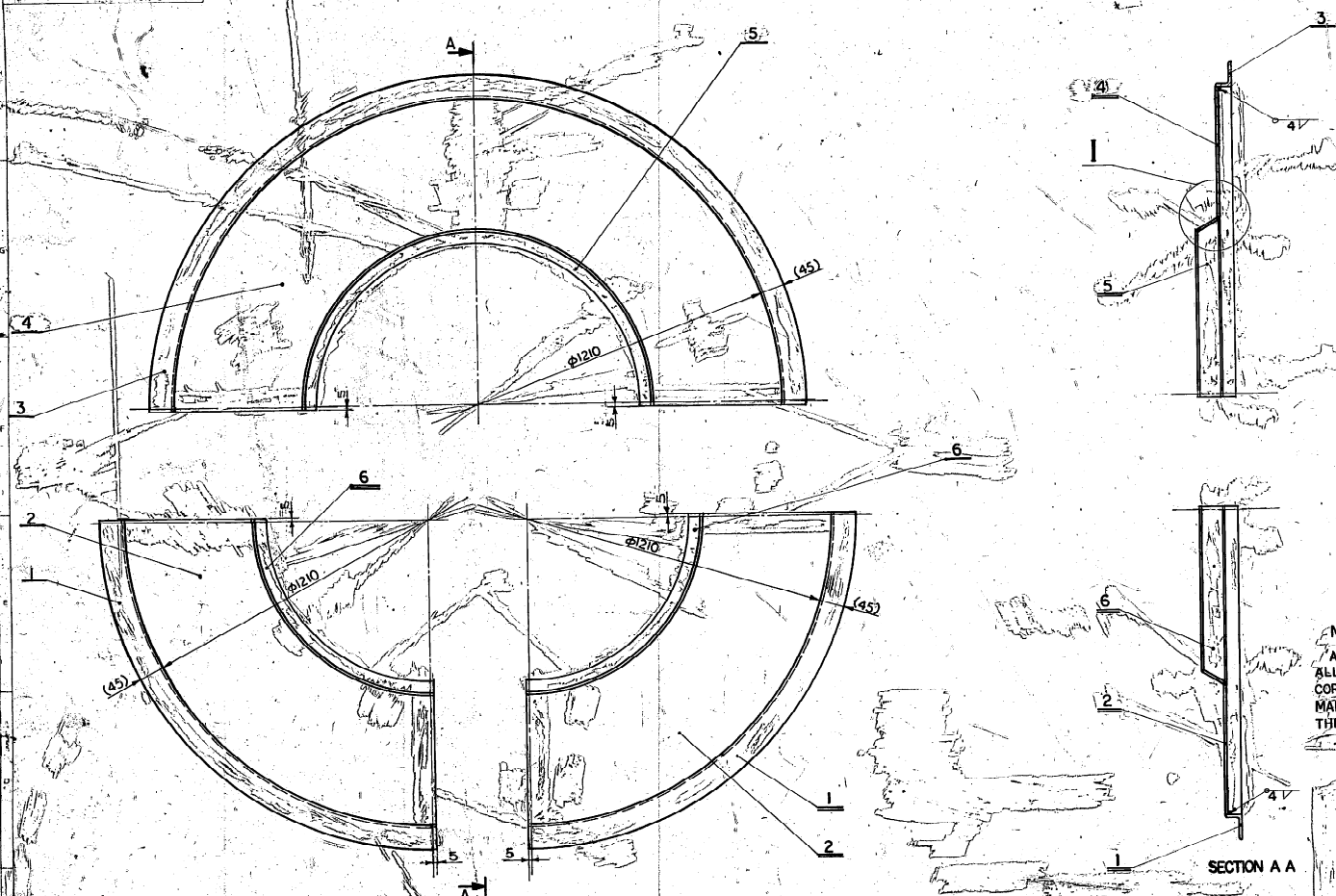
## TECHNICAL REQUIREMENTS

1. THE WELD SEAM IS 4 IN. FOR THE LOCATIONS SPECIFIED IN THIS T.R. & FOR UNSPECIFIED.
2. CLASSIFY THE GROUPS ACCORDING TO AWS D90.20/99, CK55,CK61,CK62.
3. TEST SPECIE ACCORDING TO AWS D90.19/99 ; CATEGORY OF SERVICE REQUIREMENTS A(1).
4. SURFACE TREATMENT (WASHOT-BLASTING/PAINTING ETC) AS PER TECHNICAL INSTRUCTION NO. 0912.010.
5. DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY.
6. MARK IDENTIFICATION ACCORDING TO AWS D40.03/97.
7. ITEM 7 IN TOP HALF SHOULD REST ON ITEM 16 OF BOTTOM HALVES AT THE HORIZONTAL CENTER LINE. UNLESS ITEM 16 IN BOTH BOTTOM HALVES ARE CONCENTRIC AT THE HORIZONTAL CENTER LINE. MAXIMUM ALLOWABLE GAP 1mm. A UNIFORM GAP OF 2mm IS TO BE ENSURED BETWEEN ITEM 4, AND BETWEEN ITEM 1, FOR THIS PURPOSE. SEE ITEMS 28 & 29.
8. THE OUTER FACE OF ITEM 9 SHOULD BE PERPENDICULAR TO THE HORIZONTAL CENTER LINE.
9. THIS WELD SHOULD BE OFF LOADED IN 1:144:404 OR OFF LOADED ONLY (WELDED) DRG. 1-144-01023 & 1-144-004 OR 01303(F OFF COVERED ONLY).

[illegible]

01  
SUPERSEDES THE OLD  
DRG. UNDER THE SAME  
TGE-12-F0014

1-144-04-01023



SYMBOL AND SIZE OF SEAM	4 N
SEAM LENGTH M	6-050
WEIGHT OF DEPOSITED METAL Kg	0-570
TYPE OF ELECTRODE	E-6013

## MANUFACTURING PROCEDURE

ANGLES ITEM 1 & 3 TO BE BENT TO I.D. OF 1210 KEEPING BENDING ALLOWANCE OF 200 mm AT BOTH ENDS. CHECK THE BENDING CORRECTNESS OF THE ANGLES WITH TECHNOLOGICAL TEMPLATE (TO BE MADE BY SUBCONTRACTOR) AND RECTIFY IF NECESSARY. CUT OFF THE EXTRA LENGTH.

TACK WELD ALL THE ITEMS FOLLOWED BY REGULAR WELDING.

SECTION A-A

## TECHNICAL REQUIREMENTS

1. DIMENSIONS IN THE BRACKETS ARE FOR REFERENCE ONLY.
2. CLASSIFICATION GROUPS ACCORDING TO HW 0620099: CK.
3. TEST SCOPE ACCORDING TO HW 0850199: CATEGORY OF SERVICE REQUIREMENTS 4.
4. SURFACE TREATMENT (I.e. SHOT BLASTING/PAINTING ETC.) AS PER TECHNOLOGICAL INSTRUCTION NO. 0912.015.
5. CHECK ALL THE 3 SEGMENTS BY TACK WELDING TOGETHER FOR COMPLETE DIMENSIONS AND FLATNESS OF THE COVER.
6. THIS JOB IS TO BE OFF LOADED IN CONJUNCTION WITH AIR GUIDE COVER (WELDED) TO DRG: 0-144-04-01013, CAPABLE OF OFF LOADING.
7. FOR COVER MACHINED REFER DRG. 1-144-04-01022.
8. IDENTIFICATION ACCORDING TO HW 0400397.
9. ALL THE THREE SEGMENTS OF COVER OF EACH PO ARE MATCHED & SUITABLY IDENTIFIED SO THAT MIXING OF SEGMENTS OF COVERS OF OTHER PLANT ORDER IS AVOIDED.

10. TECHNOLOGICAL SUPPORTS TO BE PROVIDED DURING WELDING TO MINIMISE DISTORTION.

SCALE: 1:1

002	—	006 PLATE	3-144-04-01075	—	AA101808013	—	1-000	F
001	—	005 PLATE	3-144-04-01074	—	AA101808013	—	2-000	H
001	—	004 SEGMENT	4-144-04-01178	—	AA101808056	—	24-360	G
001	—	003 ANGLE	3-144-04-01069	—	AA101808056	—	15-570	I2
002	—	002 SHEET	4-144-04-01177	—	AA101808056	—	12-260	I2
002	—	001 ANGLE	3-144-04-01068	—	AA101808056	—	2810	E

VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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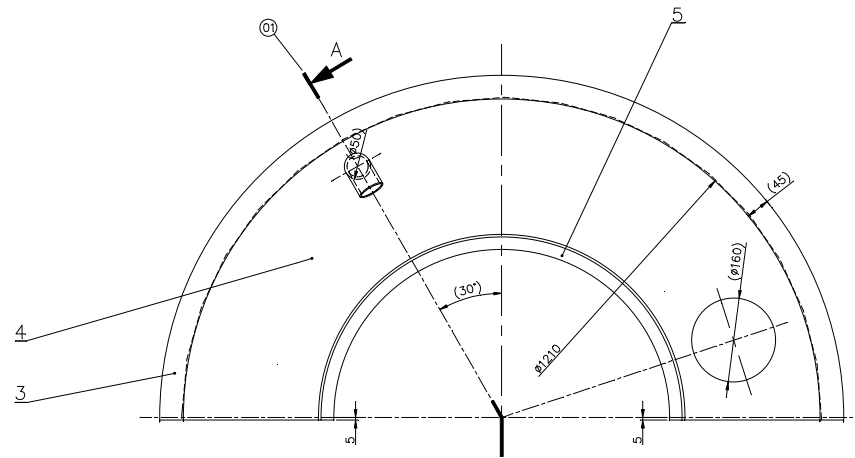
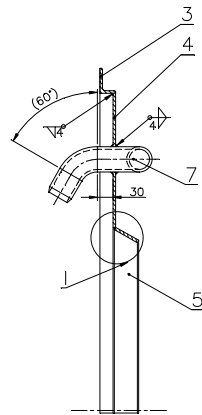
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VAR	DO	REMARKS	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD
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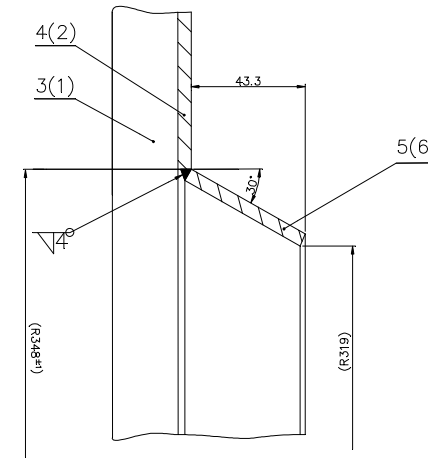
COVER (WELDED)

1-144-04-01023

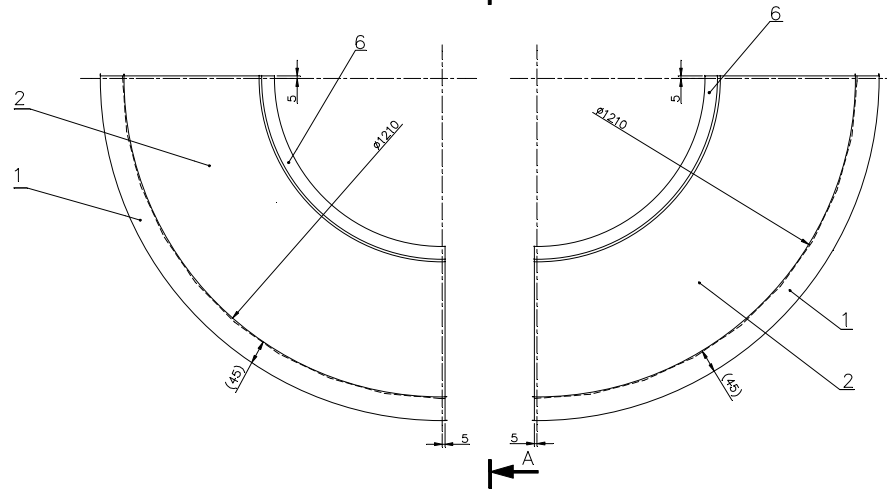
SIZE A1

DRAWING NO.  
11440401039

SYMBOL AND SIZE OF SEAM	4
SEAM LENGTH M	6.050
WEIGHT OF DEPOSITED METAL Kg	0.570
TYPE OF ELECTRODE	E-7018

DETAIL-I  
SCALE 1:1

SECTION A A



## TECHNICAL REQUIREMENTS

- DIMENSIONS IN THE BRACKETS ARE FOR REFERENCE ONLY.
- CLASSIFICATION GROUPS ACCORDING TO HW 0620099 : CK.
- TEST SCOPE ACCORDING TO HW 0850199 : CATEGORY OF SERVICE REQUIREMENTS 4.
- SURFACE TREATMENT (i.e. SHOT BLASTING/PAINTING ETC.) AS PER TECHNOLOGICAL INSTRUCTION NO. 0912.015 .
- CHECK ALL THE 3 SEGMENTS BY TACK WELDING TOGETHER FOR COMPLETE DIMENSIONS AND FLATNESS OF THE COVER.
- THIS JOB IS TO BE OFF LOADED IN CONJUNCTION WITH AIR GUIDE COVER (WELDED) TO DRG. 0-144-04-01031.
- FOR COVER MACHINED REFER DRG. 1-144-04-01040.
- IDENTIFICATION ACCORDING TO HW 0400397.
- ALL THE THREE SEGMENTS OF COVER OF EACH P.O ARE MATCHED & SUITABLY IDENTIFIED SO THAT MIXING OF SEGMENTS OF COVERS OF OTHER PLANT ORDER IS AVOIDED.
- TECHNOLOGICAL SUPPORTS TO BE PROVIDED DURING WELDING TO MINIMISE DISTORTION.

## MANUFACTURING PROCEDURE

- ANGLES ITEM 1&3 TO BE BENT TO I.D. OF 1210 KEEPING BENDING ALLOWANCE OF 200mm AT BOTH ENDS. CHECK THE BENDING CORRECTNESS OF THE ANGLES WITH TECHNOLOGICAL TEMPLATE (TO BE MADE BY SUBCONTRACTOR) AND RECTIFY IF NECESSARY. CUT OFF THE EXTRA LENGTH.
- TACK WELD ALL THE ITEMS FOLLOWED BY REGULAR WELDING.

SUPERSEDES THE OLD DRG.  
UNDER THE SAME NO.  
TGE-13-F0393

CBOM NO. 01440401029				STATUS OF DRG. APPROVED DATE 26/06/200				TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT B'LESS EXCITER FOR 800MW TG			
GRADE OF UNTOL. DIM.: - M/C/G- 4/C/M/F AA 0230208				WELDING-K/B/C/B-AA621104				GAS CUTTING-T3'AA0621101			
REV. DATE 01/21/12/13				ALtered PA CHECKED SSM				DEPT. TGE CODE 4133			
CHANGE AS PER C/A NO. TGE-13-F0393				REV. DATE 01/21/12/13				ALtered PA CHECKED SSM			
TITLE COVER (WELDED)				SCALE 1:5				WEIGHT (Kg.) 64.64			
DRAWING NO. 11440401039				SHEET NO. 1				NO. OF SHEETS 1			

DRAWING NO.

21440401002

TACK WELD  
ALL JOINTS2  
1

B

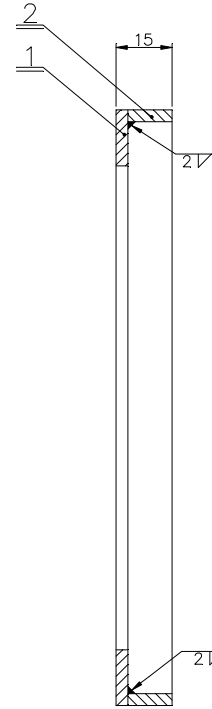
A

B

160

A

160



SECTION A-A



SECTION B-B

01  
SUPERSEDES

## TECHNICAL REQUIREMENTS

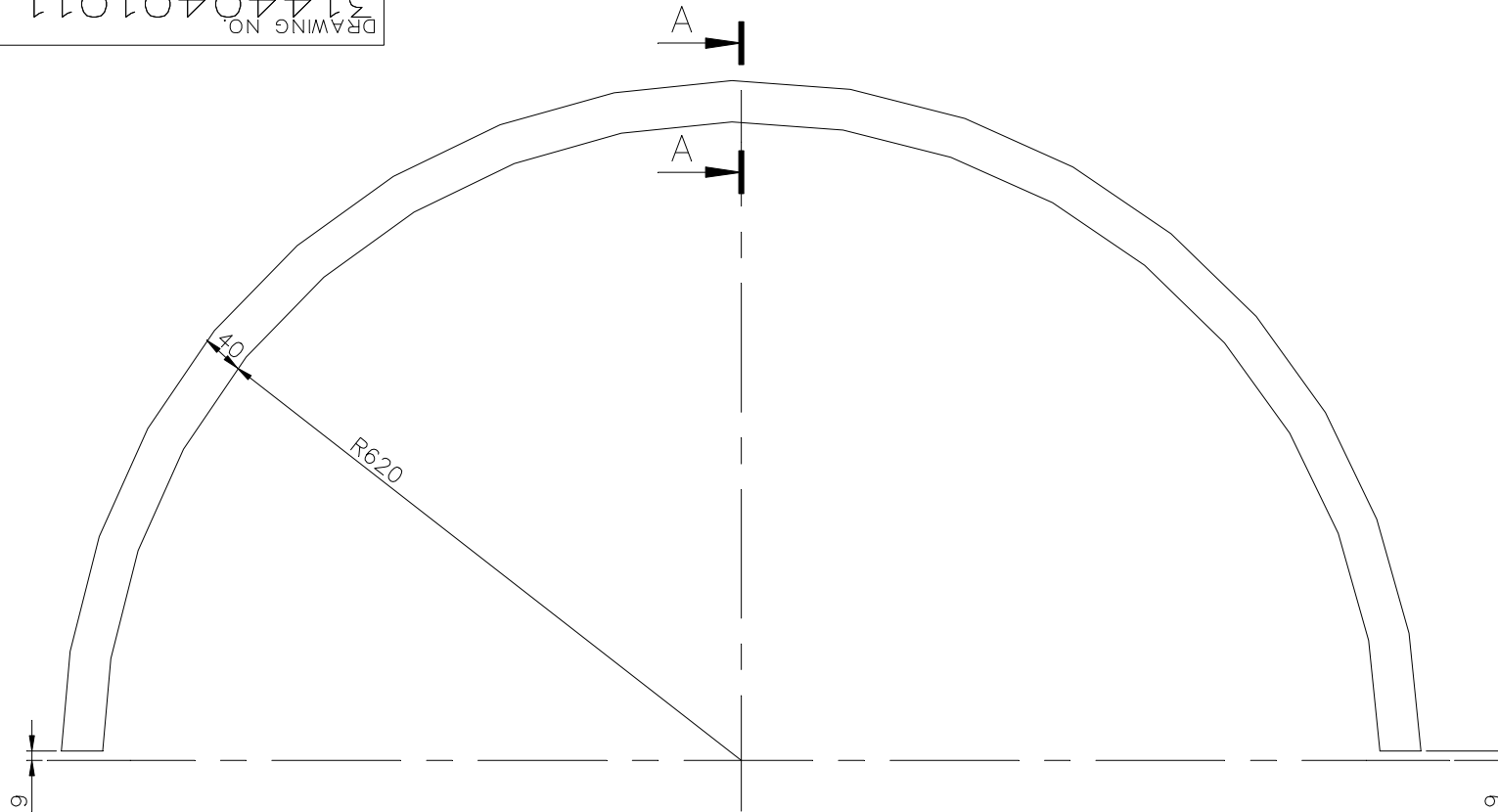
1. CLASSIFICATION GROUPS ACCORDING TO HW0620099 : CK.
2. TEST SCOPE ACCORDING TO HW0850199: CATEGORY OF SERVICE REQUIREMENTS 4.
3. IDENTIFICATION ACCORDING TO HW0400397.

CBOM NO. 01440401003				STATUS OF DRG.							
AGREED DEPT.		NAME	SIGN	DATE							
WT		CHHABRA	-SD-	23.9.81							
						GRADE OF UNTOL. DIM.: -					
						M/CG- <del>V/C/M/P</del> AA 0230208					
						WELDING- <del>A/B/C/D</del> -AA0621104					
GAS CUTTING-'T3'AA0621101											
REV.	DATE	ALTERED		REV.	DATE						
		CHECKED		01	26.02.22						
						CHANGES AS PER C/A NO.					
						TGE-22-F0039					

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		BRUSHLESS EXCITER FOR 500MW TG			
	NAME		SIGN	DATE	NO. OF VAR.
	TNG		-SD-	25.4.81	-
	CHD KSR/KNW		-SD-	22.9.81	-
APD NPG		-SD-	28.9.81	73, 74	
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.		
CODE 4133	1:1	0.422	01440401001		
TITLE		DRAWING NO.		ITEM NO. OF NO. OF SHEETS	
FRAME		21440401002		011	
		SHEET NO. 1		NO. OF SHEETS 1	



✓ ALL OVER

DRAWING NO.  
31440401011

SECTION A-A

SCALE 1:1



DEVELOPED LENGTH=1993

## TECHNICAL REQUIREMENT: -

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

01  
SUPERSEDES

				CBOM NO. 01440401003		STATUS OF DRG.	
		AGREED DEPT.	NAME		SIGN	DATE	
GRADE OF UNTOL. DIM.: –				WT	CHHABRA	–SD–	23.9.81
M/CG– <del>V/C/M/P</del> AA 0230208							
WELDING– <del>A/B/C/D</del> –AA621104							
GAS CUTTING–'T3'AA0621101							
REV.	DATE	ALTERED		REV.	DATE	ALTERED PA	–SD–
		CHECKED		01	26.02.22	CHECKED RM	–SD–
				CHANGES AS PER C/A NO. TGE–22–F0039			

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				B'LESS EXCITER FOR 500MW TG.				
<div>BHARAT HEAVY ELECTRICALS LTD. HARDWAR</div>					NAME	SIGN	DATE	NO.OF VAR.
				DRN	TNG	—SD—	18.4.81	—
				CHD	KSR/KNW	—SD—	22.9.81	—
				APD	NPG	—SD—	28.9.81	73, 74
DEPT.	TGE		SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.		ITEM NO.	NO.OF ITEMS
CODE	4133		1:5	6.296	01440401001		009	—
TITLE				1	3	DRAWING NO.		
FLAT						31440401011		22, 23, 24
				SHEET NO.1		NO.OF SHEETS		1

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26-5607-86545a/KWU  
(ITEM NO.20)  
REF. DRG NO.

SIGN & DATE

INVENTORY NO.

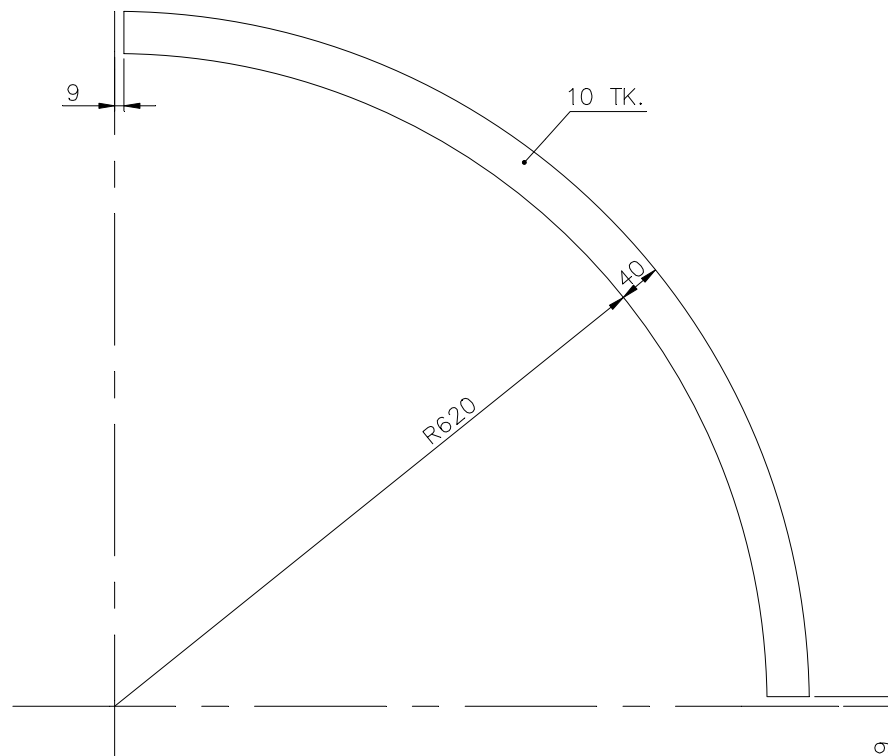
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)

ALL OVER

DRAWING NO.  
31440401012



DEVELOPED LENGTH=988

### TECHNICAL REQUIREMENTS: -

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

01  
SUPERSEDES

GRADE OF UNTOL. DIM.: -				CBOM NO. 01440401003		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				B'LESS EXCITER FOR 500MW TG.			
M/CG- <del>Y/C/M/P</del> AA 0230208				AGREED DEPT.		NAME		SIGN		DATE		NO.OF VAR.			
WELDING- <del>A/B/C/D</del> -AA621104				WT		CHHABRA		-SD-		23.9.81		-			
GAS CUTTING-'T3'AA0621101												73, 74			
REV.		DATE		ALTERED		REV.		DATE		ALTERED PA		NO.OF ITEMS			
				CHECKED		01		26.02.22		CHECKED RM		-SD-			
CHANGES AS PER C/A NO. TGE-22-F0039												75, 77			
				DEPT.		TGE		SCALE		WEIGHT(Kg.)		REF. TO ASSY. DRG.			
				CODE		4133		1:5		3.125		01440401001			
				TITLE		FLAT		1		3		DRAWING NO. 31440401012			
												7, 22, 23, 24			
												SHEET NO.1 NO.OF SHEETS 1			

SIZE A3

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26-5607-86545a/KWU  
(ITEM NO.12)  
REF. DRG NO.

SIGN & DATE

INVENTORY NO.

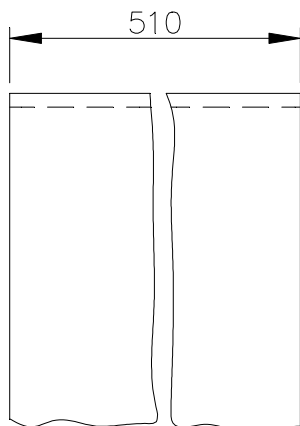
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

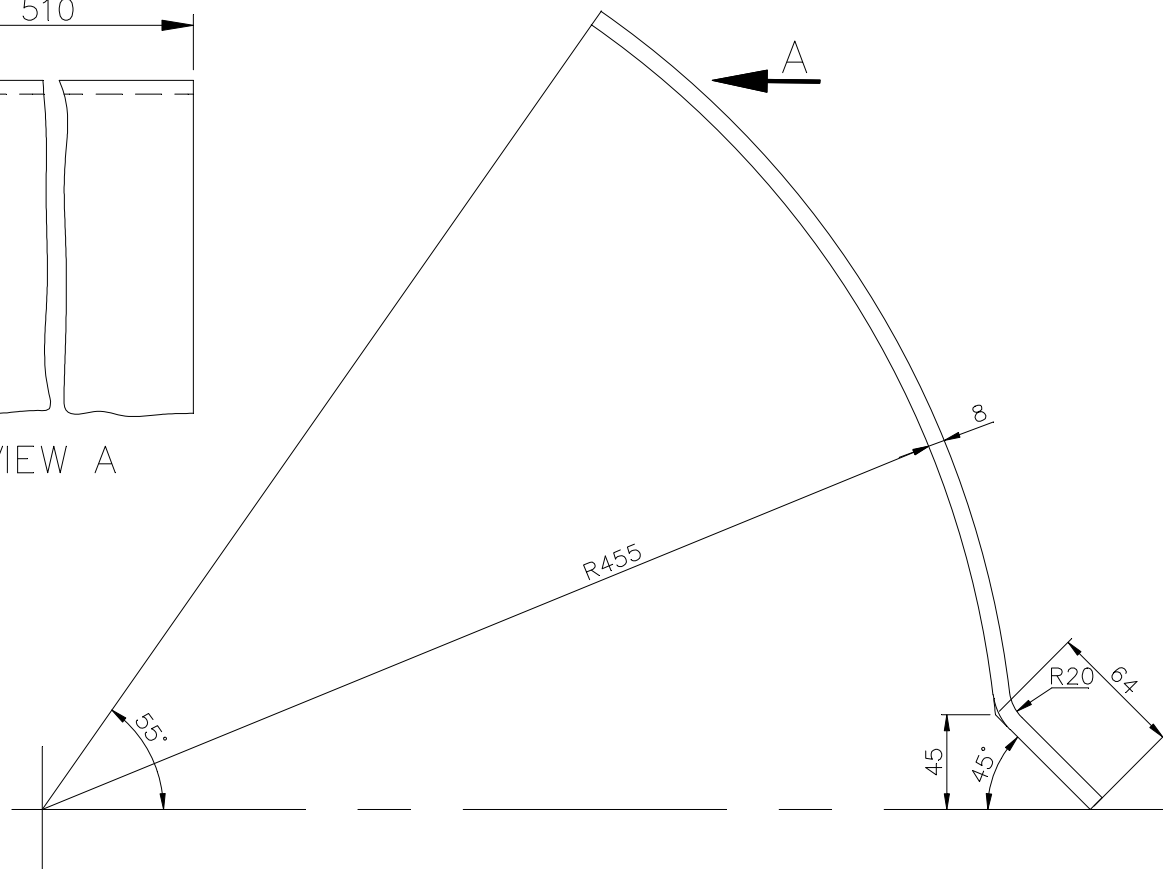
FORM: DG-38(B)

500%  
THE REST

DRAWING NO.  
31440401014



VIEW A




DEVELOPED LENGTH=450

TECHNICAL REQUIREMENTS: —

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

02  
SUPERSEDES

CBOM NO. 01440401003				STATUS OF DRG.	
AGREED DEPT.		NAME		SIGN	DATE
WT		CHHABRA		—SD—	23.9.81
GRADE OF UNTOL. DIM.: —					
M/CG— <del>V/C/M/V</del> AA 0230208					
WELDING— <del>A/B/C/D</del> —AA621104					
GAS CUTTING—'T3'AA0621101					
REV.	DATE	ALTERED		REV.	DATE
		CHECKED		02	26.02.22
				—SD—	
				—SD—	
CHANGES AS PER C/A NO. TGE-22-F0039					

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		B'LESS EXCITER FOR 500MW TG.			
 BHARAT HEAVY ELECTRICALS LTD. HARDWAR	DRN	NAME	SIGN	DATE	NO.OF VAR.
	CHD	TNG	-SD-	18.4.81	—
	APD	KSR/KNW	-SD-	22.9.81	—
DEPT. TGE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
CODE 4133	1: 2.5	14.490	31440401015	001	73, 74 75, 77
TITLE		DRAWING NO. 31440401014		SHEET NO.1 NO.OF SHEETS 1	
SHEET		1 3		7 22 23 24	

SIZE A3

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OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

26-5607-86545a/kwu

REF. DRG NO.

SIGN & DATE

INVENTORY NO.

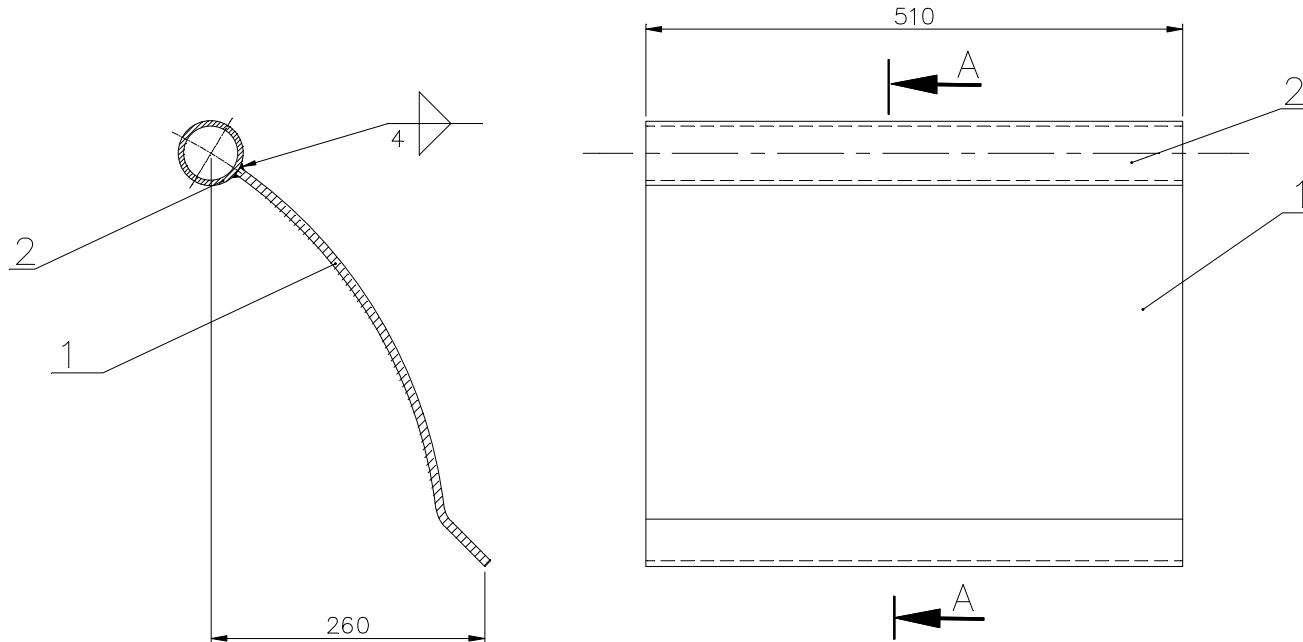
FIRST ANGLE PROJECTION

DOC REV NO.: 2

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)

DRAWING NO.  
31440401015



SECTION A-A

SYMBOL & SIZE OF WELD SEAM	4
SEAM LENGTH IN METER	1.020
WT. OF DEPOSITED METAL IN KG.	0.096
TYPE OF ELECTRODE	E-42

### TECHNICAL REQUIREMENTS: -

1. CLASSIFICATION GROUPS ACCORDING TO HW0620099: CK.
2. TEST SCOPE ACCORDING TO HW0850199: CATEGORY OF SERVICE REQUIREMENTS 4.
3. MARK IDENTIFICATION ACCORDING TO HW0400397.

02  
SUPERSEDES

GRADE OF UNTOL. DIM.: -				CBOM NO. 01440401003		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				B'LESS EXCITER FOR 500MW TG.																	
M/CG- <del>Y/C/M/F</del> AA 0230208				WT		CHHABRA		-SD-		23.9.81		DRN		NAME		SIGN		DATE		NO.OF VAR.									
WELDING- <del>A/B/C/D</del> -AA621104												CHD		KSR/KNW		-SD-		22.9.81		-									
GAS CUTTING-'T3'AA0621101												APD		NPG		-SD-		28.9.81		73, 74									
REV.		DATE		ALTERED		REV.		DATE		ALTERED		PA		-SD-		DEPT.		TGE		SCALE		WEIGHT(Kg.)		REF. TO ASSY. DRG.		ITEM NO.		NO.OF ITEMS	
02		26.02.22		CHECKED		RM		-SD-								CODE		4133		1:5		18.036		01440401001		015		75, 77	
CHANGES AS PER C/A NO. TGE-22-F0039																TITLE		SUPPORT				DRAWING NO. 31440401015							
																						SHEET NO.1		NO.OF SHEETS 1					

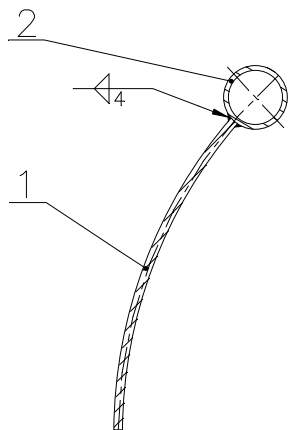
SIZE A3

FIRST ANGLE PROJECTION

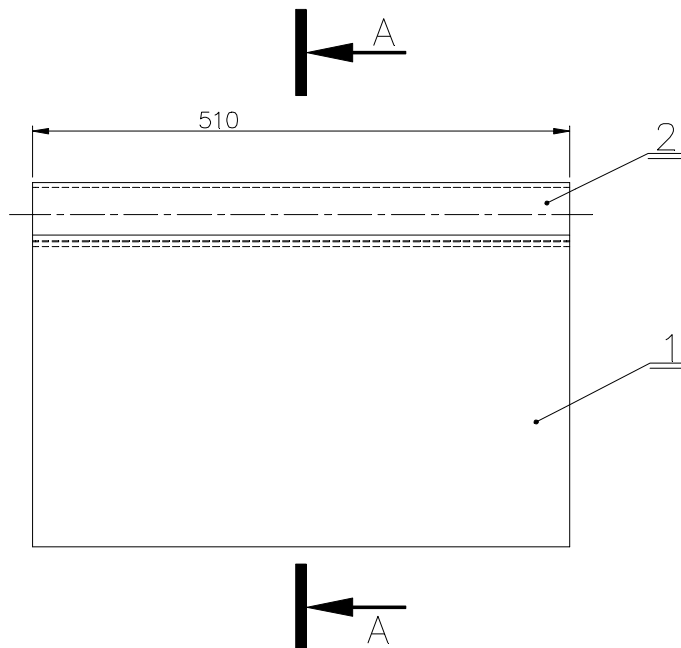
DOC REV NO.: 2

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)

DRAWING NO.  
31440401016

SECTION A-A



SYMBOL & SIZE OF WELD SEAM	4
SEAM LENGTH M.	1.020
WT. OF DEPOSITED METAL KG.	0.096
TYPE OF ELECTRODE	E-42

## TECHNICAL REQUIREMENTS: -

1. CLASSIFICATION GROUPS ACCORDING TO HW0620099: CK.
2. TEST SCOPE ACCORDING TO HW0850199: CATEGORY OF SERVICE REQUIREMENTS 4.
3. IDENTIFICATION ACCORDING TO HW0400397.

SUPERSEDES

GRADE OF UNTOL. DIM.: -		CBOM NO. 01440401003		STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT		BRUSHLESS EXCITER FOR 500MW TG	
M/CG- <del>V/C/M/P</del> AA 0230208		AGREED DEPT. WT		NAME CHHABRA		SIGN -SD-		DATE 23.09.81	
WELDING- <del>A/B/C/D</del> -AA0621104		REV.		DATE		ALTERED PA		-SD-	
GAS CUTTING-'T3'AA0621101		02		26.02.22		CHECKED RM		-SD-	
REV.		DATE		ALTERED		CHECKED		-SD-	
CHANGES AS PER C/A NO. TGE-22-F0039		DEPT.		TGE		SCALE		WEIGHT(Kg.)	
		CODE		4133		1:5		13.847	
		TITLE		SUPPORT		REF. TO ASSY. DRG.		01440401001	
		DRAWING NO.		31440401016		ITEM NO.		022	
		SHEET NO. 1		NO.OF SHEETS 1		NO.OF VAR.		73, 74	
								75, 77	

SIZE A3

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OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

26-5607-86545a/kwu  
(ITEM NO. 10)  
REF. DRG NO.

SIGN & DATE

INVENTORY NO.

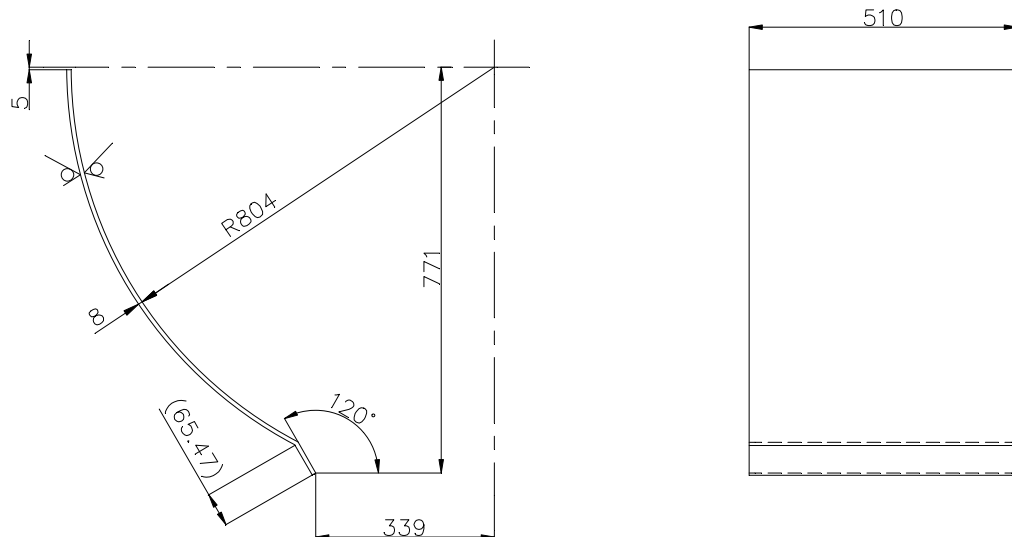
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)

31440401017  
DRAWING NO.

500 THE REST




DEVELOPED LENGTH= 945

## TECHNICAL REQUIREMENTS: -

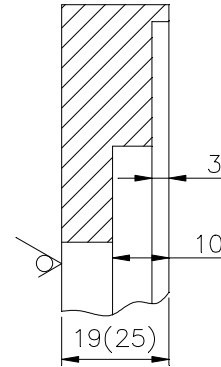
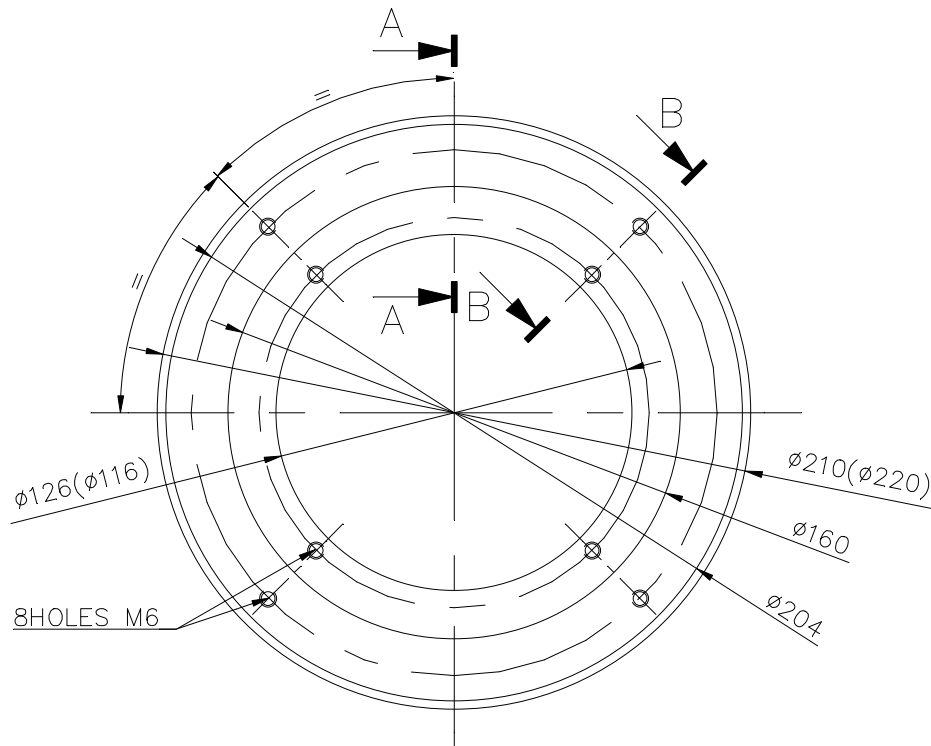
1. MARK IDENTIFICATION ACCORDING TO HW0400397.

02  
SUPERSEDES

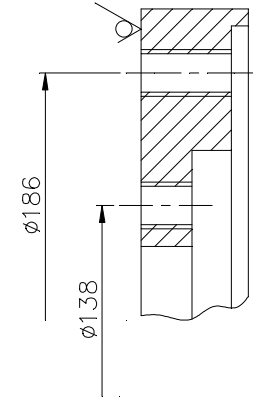
				CBOM NO.		STATUS OF DRG.	
				01440401003			
AGREED DEPT.				NAME		SIGN	
WT				CHHABRA		-SD-	
GRADE OF UNTOL. DIM.: -							
M/CG- <del>V/C/M/P</del> AA 0230208							
WELDING- <del>A/B/C/D</del> -AA621104							
GAS CUTTING-'T3'AA0621101							
REV.		DATE		ALTERED		REV.	
				CHECKED		DATE	
						PA -SD-	
						CHECKED RM -SD-	
				CHANGES AS PER C/A NO.			
				TGE-22-F0039			

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				B'LESS EXCITER FOR 500MW TG.			
 BHARAT HEAVY ELECTRICALS LTD. HARDWAR				DRN	NAME	SIGN	DATE
				CHD	TNG	-SD-	18.4.81
				APD	KSR/KNW	-SD-	22.9.81
DEPT. TGE				REF. TO ASSY. DRG.			
CODE 4133				01440401001			
TITLE				DRAWING NO.			
SHEET				31440401017			
SHEET NO.1				NO.OF SHEETS 1			

SIZE A3



SECTION AA  
SCALE 1:1



SECTION BB  
SCALE 1:1

### TECHNICAL REQUIREMENTS

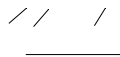
1. MARK IDENTIFICATION ACCORDING TO HW 0400397.
2. DIMENSIONS IN BRACKETS ARE BEFORE MACHINING.

01  
SUPERSEDES THE OLD  
DRG. UNDER THE SAME NO.  
TGE-10-F0018

0-144-04-01011

WT ROY -S/D- 21.5.90

B'LESS EXCITER FOR 500MW TG.



01 16.1.10 VIJAY -S/D-  
TNG -S/D-  
CHANGES ACCORDING TO  
CH.AD. NO.-  
TGE-10-F0018

TGE  
4133

1: 2

2.390

TNG -S/D- 24.3.90  
SM -S/D- 29.3.90  
IC RAO -S/D- 16.6.90

0-144-04-01013 030

FLANGE

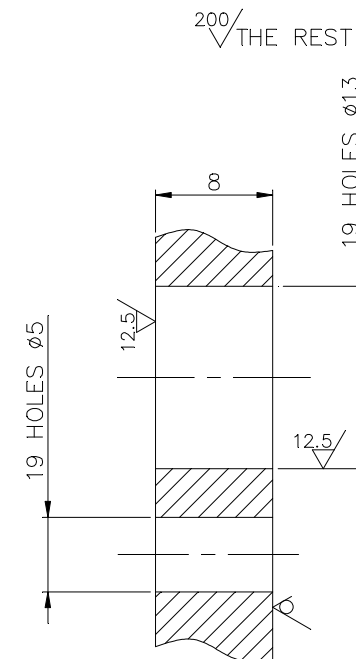
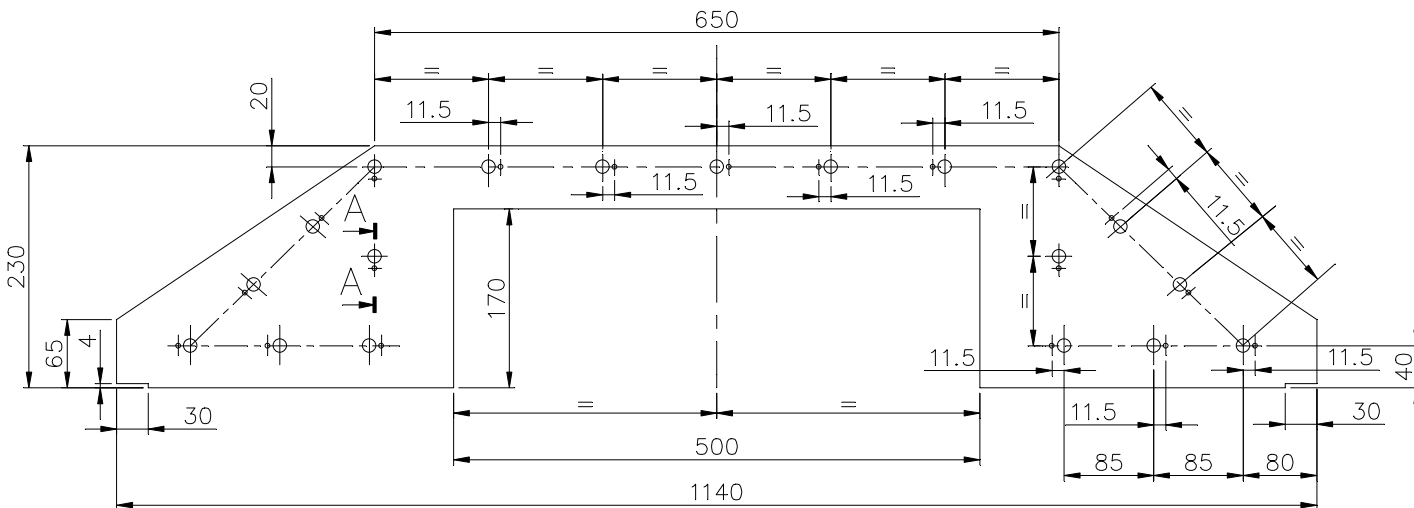
3-144-04-01070 01

FIRST ANGLE PROJECTION

DOC REV NO.: 0

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)



SECTION-AA

## TECHNICAL REQUIREMENTS

1. MARK IDENTIFICATION ACCORDING TO HW 0400397.

CBOM NO. 01440401029				STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT													
AGREED DEPT.				NAME		SIGN		DATE		NAME		SIGN		DATE		NO.OF VAR.			
WTX				AWTXIS		AWTXIS		28/08/2010		DRN		STGEVK		STGEVK		05/08/2010			
M/CG- V/C/M/F AA 0230208										CHD		STGESSM		STGESSM		05/08/2010			
WELDING-A/B/C/D-AA621104										APD		ATGEVK		ATGEVK		01/10/2010		73, 74	
GAS CUTTING-'T3'AA0621101										DEPT. TGE		SCALE		WEIGHT(Kg.)		REF. TO ASSY. DRG.		ITEM NO.	
REV. DATE ALTERED CHECKED				REV. DATE		ALTERED CHECKED				CODE 4133		1:5		8.482		01440401031		004	
										TITLE		SHEET		1		DRAWING NO. 31440401145		75, 77	
																SHEET NO.1		NO.OF SHEETS 1	

SIZE A3

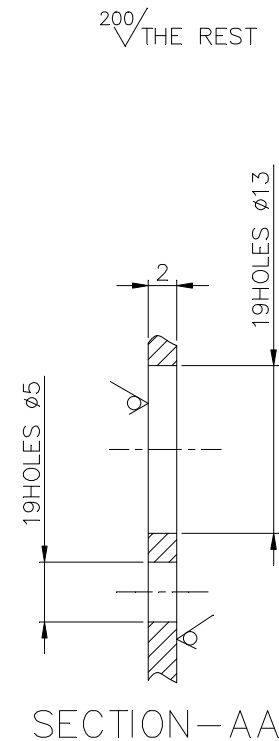
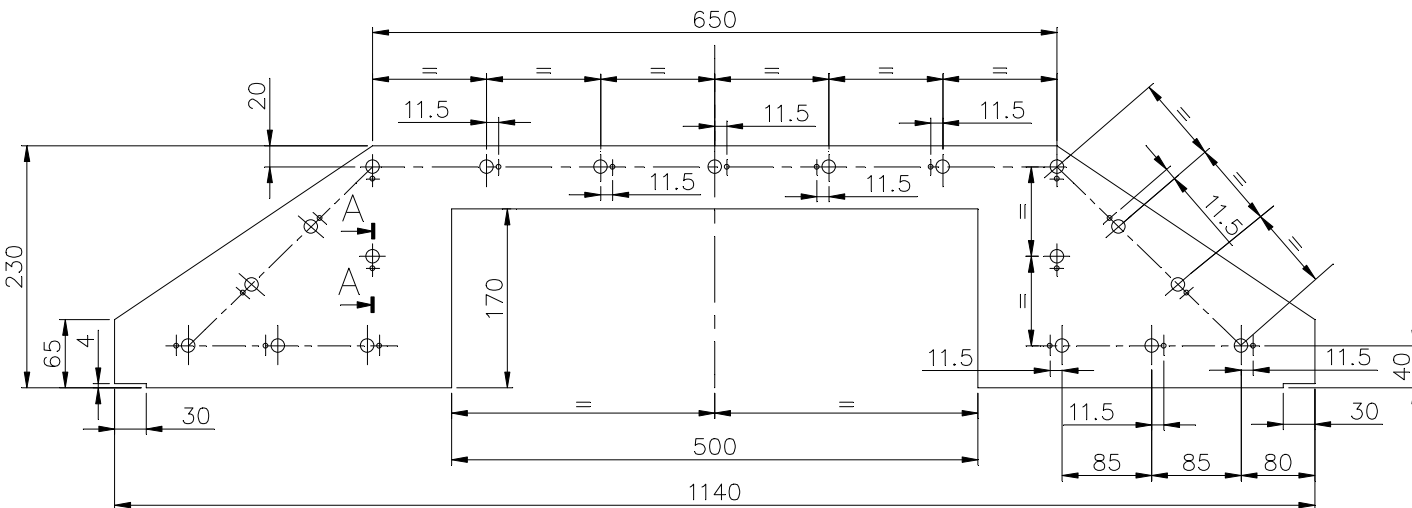


FIRST ANGLE PROJECTION

DOC REV NO.: 0

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)



## TECHNICAL REQUIREMENTS

1. MARK IDENTIFICATION ACCORDING TO HW 0400397.

CBOM NO. 01440401029				STATUS OF DRG.		TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				B'LESS EXCITER FOR 800MW TG.					
AGREED DEPT.	NAME	SIGN	DATE	BHARAT HEAVY ELECTRICALS LTD. HARDWAR				DRN	NAME	SIGN	DATE	NO.OF VAR.			
WTX	AWTXIS	AWTXIS	28/08/2010					CHD	STGEVK	STGEVK	05/08/2010				
								APD	STGEVM	STGEVM	05/08/2010				
GRADE OF UNTOL. DIM.: -				DEPT. TGE				SCALE		WEIGHT(Kg.)		REF. TO ASSY. DRG.			
M/CG- <del>V/C/M/F</del> AA 0230208				CODE 4133				1:5		2.182		01440401031			
WELDING-A/B/C/D-AA621104				TITLE				SHEET				DRAWING NO.			
GAS CUTTING-'T3'AA0621101												31440401146			
REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED					ITEM NO.		NO.OF ITEMS			
										029		73, 74 75, 77			
												SHEET NO.1		NO.OF SHEETS 1	

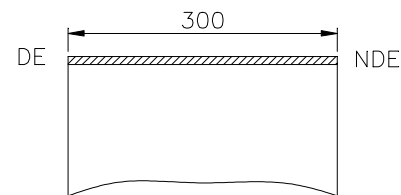
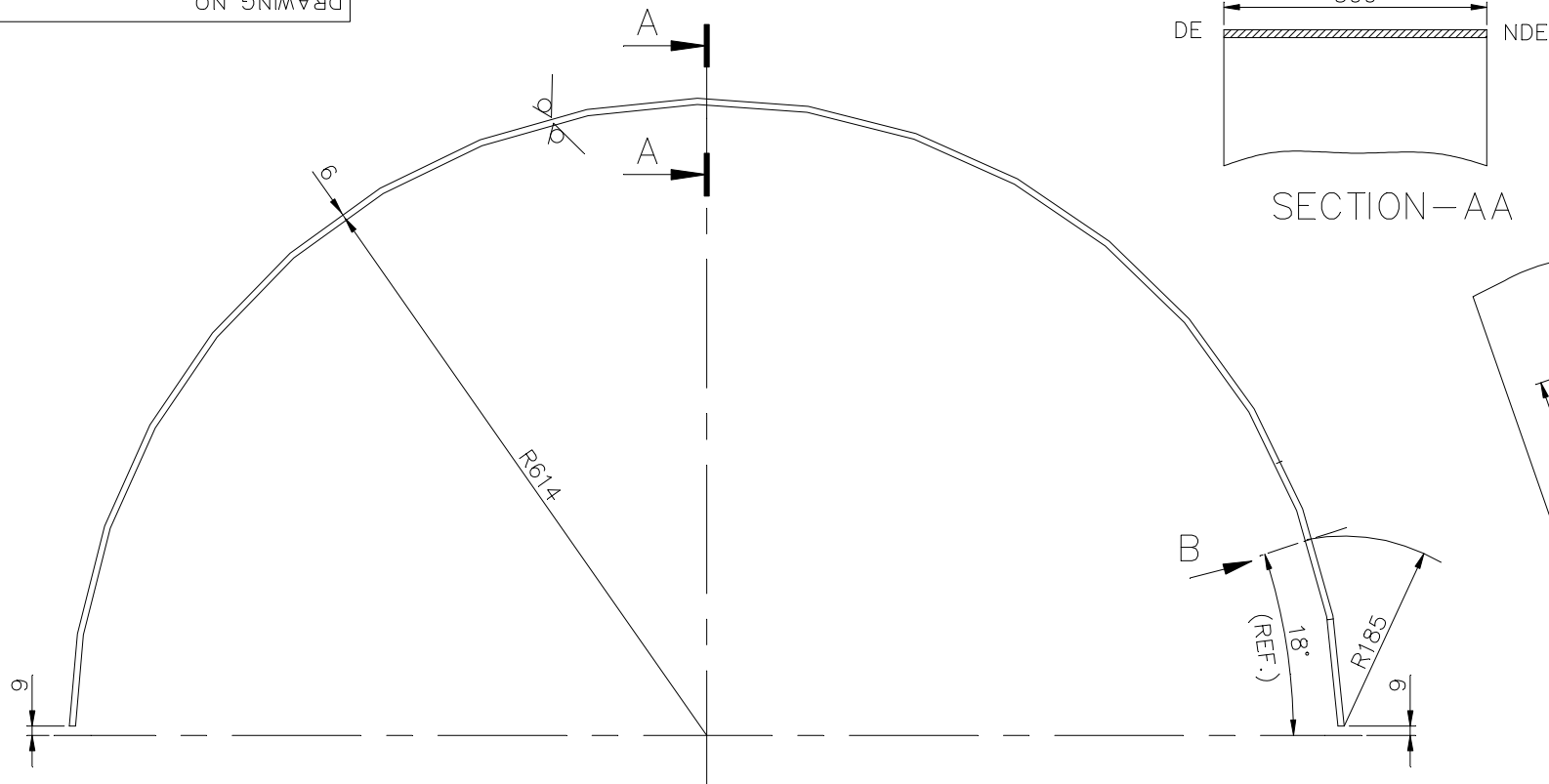
SIZE A3

FIRST ANGLE PROJECTION

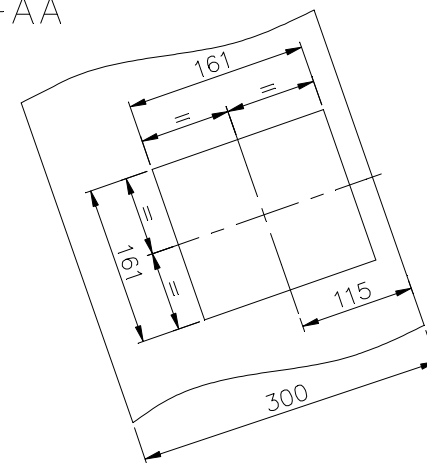
DOC REV NO.: 0

(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)

500%  
THE RESTDRAWING NO.  
31440401147

SECTION-AA




VIEW-B

DEVELOPED LENGTH=1920

## TECHNICAL REQUIREMENTS

1. MARK IDENTIFICATION ACCORDING TO HW 0400397.

				CBOM NO. 01440401029		STATUS OF DRG.	
				AGREED DEPT.	NAME	SIGN	DATE
GRADE OF UNTOL. DIM.: –				WTX	AWTXIS	AWTXIS	28/08/2010
M/CG– <del>V/C/M/P</del> AA 0230208							
WELDING– <del>A/B/C/D</del> –AA621104							
GAS CUTTING–‘T3’AA0621101							
REV.	DATE	ALTERED CHECKED		REV.	DATE	ALTERED CHECKED	

TYPE OF PRODUCT OR NAME OF CUSTOMER/ PROJECT				B'LESS EXCITER FOR 800MW TG.			
 BHARAT HEAVY ELECTRICALS LTD. HARDWAR				DRN	NAME	SIGN	DATE
				CHD	STGEVK	STGEVK	05/08/2010
				APD	STGEVM	STGEVM	05/08/2010
DEPT. TGE				REF. TO ASSY. DRG.			
CODE 4133				01440401031			
TITLE				DRAWING NO.			
SHEET				31440401147			
				SHEET NO.1			
				NO.OF SHEETS 1			

SIZE A3

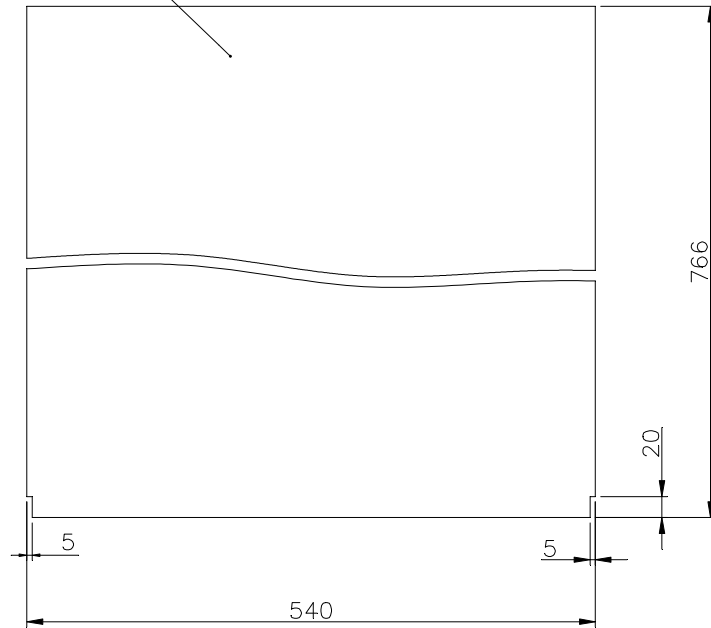
FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.	STATUS
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003	OF DRG
CHANGES AS PER C/A NO.			AGREED	NAME	SIGN	DATE		
TGE-22-F0039			DEPT.	CHHABRA	-SD-	3.9.81		
			WT					

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

6 THICK

500/ THE REST



## TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

01

SUPERSEDES

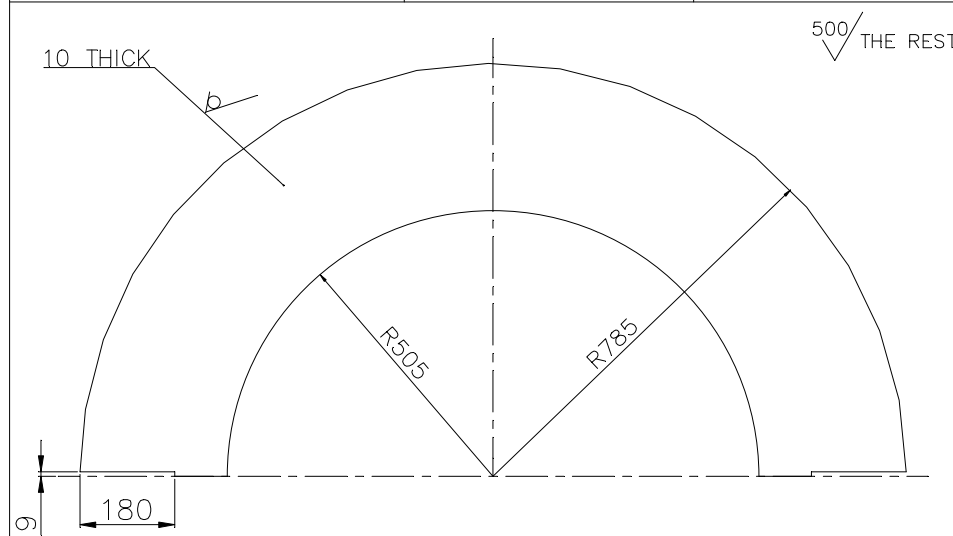
BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	YC GARG	-SD-	29.1.81	
CHD	KSR/KNW	-SD-	22.9.81	
APD	NP GUPTA	-SD-	28.9.81	

INVENTORY No.	DEPT.TGE	SCALE	WEIGHT(Kg)	REF.TD ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	1:5	19.50	01440401001	003	-
TITLE SHEET				DRAWING No.		
(B'LESS EXCITER FOR 500MW TG)				41440401010		
				SHEET No.1	No.OF SHEETS1	

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.	STATUS	
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003	OF DRG	
			CHANGES AS PER C/A NO.				AGREED	NAME	SIGN
			TGE-22-F0039				DEPT.	CHHABRA	SD-
							WT		DATE
									3.9.81
GRADE OF UNTO			DIM/M/CG/M/F			AA0230208	WELDING A7B/C/D		AA0621104
							GAS CUTTING-T3		AA0621101



## TECHNICAL REQUIREMENT: —

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

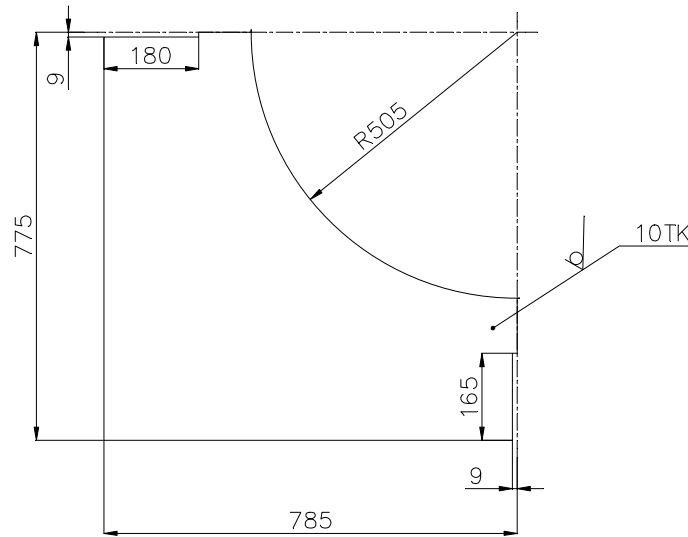
01  
SUPERSEDES

SIGN & DATE		INVENTORY No.		SCALE		WEIGHT(Kg)		REF. TO ASSY. DRG.		ITEM No.		No. OF ITEMS	
26-5607-86545 a/kwu REF.DRG.No. IT.3		BHARAT HEAVY ELECTRICALS LTD HARDWAR		1:10		44.5		01440401001		007		—	
DEPT. TGE		CODE 4133		TITLE		DRAWING No.		SHEET No.1		No. OF SHEETS 1			
SHEET		(B'LESS EXCITER FOR 500MW TG)											

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.		STATUS
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003		OF DRG
			CHANGES AS PER C/A NO. TGE-22-F0039			AGREED	NAME	SIGN	DATE
						DEPT.	CHHABRA	-SD-	23.9.81
						WT			
GRADE OF UNTO L.DIM.M/CGC/M/F.AA0230208 WELDING A7B/C/D AA0621104 GAS CUTTING-T3 AA0621101									

500/ THE REST



## TECHNICAL REQUIREMENTS: -

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

SUPERSEDES

01

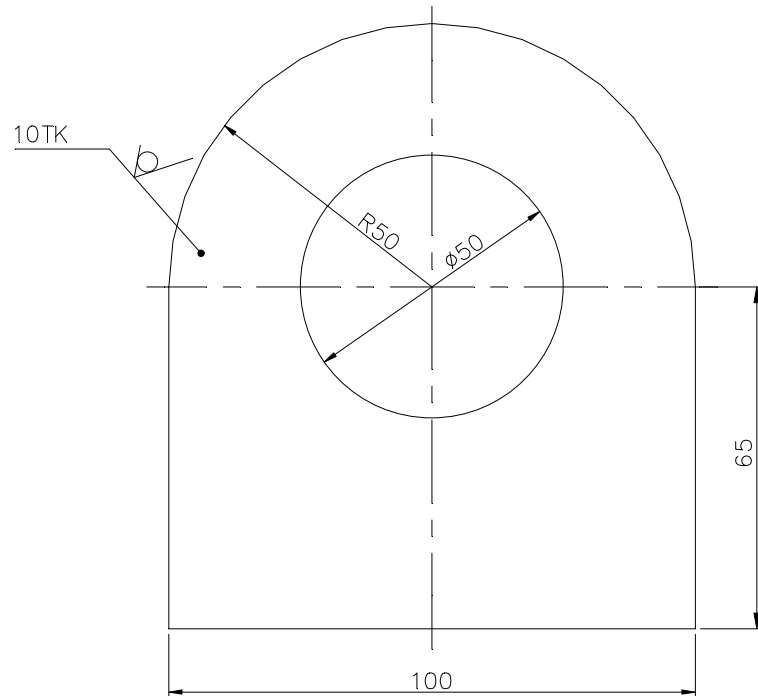
SIGN & DATE		INVENTORY No.		SCALE		WEIGHT(Kg)		REF.TD ASSY.DRG.		ITEM No.		No OF ITEMS	
26-5607-86545 a/kwu REF.DRG.No. IT. 4		BHARAT HEAVY ELECTRICALS LTD HARDWAR		1:10		32.00		01440401001		016		-	
DEPT.TGE		CODE 4133		TITLE		DRAWING No.		SHEET No.1		No.OF SHEETS1			
				SHEET		41440401012							
				(B'LESS EXCITER FOR 500MW TG)									

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.	STATUS
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003	OF DRG
CHANGES AS PER C/A NO. TGE-22-F0039			AGREED	NAME	SIGN	DATE		
			DEPT.	WT	CHHABRA	-SD-	23.9.81	

GRADE OF UNTOOL	DIM/M/CG	M/F	AA0230208	WELDING	A7B/C/D	AA0621104	GAS CUTTING-T3	AA0621101
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500 THE REST



## TECHNICAL REQUIREMENT: -

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

01

SUPERSEDES



BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	YC GARG	-SD-	14.2.81	
CHD	KSR/KNW	-SD-	22.9.81	
APD	NPG	-SD-	28.9.81	

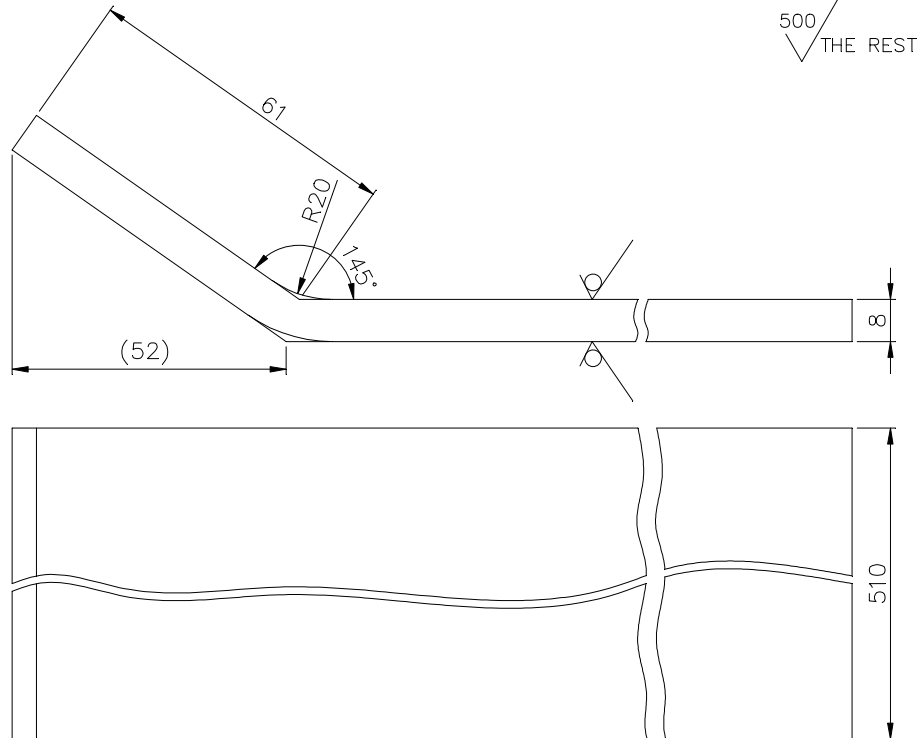
INVENTORY No.	DEPT.TGE	SCALE	WEIGHT(Kg)	REF.TD ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	1:1	0.66	01440401001	008	-
TITLE LIFTING LUG (B'LESS EXCITER FOR 500MW TG)				DRAWING No. 41440401020		
				SHEET No.1	No.OF SHEETS1	



FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.		STATUS
		CHECKED	02	26.02.22	CHECKED	DRM -SD-	01440401003		OF DRG
CHANGES AS PER C/A NO. TGE-22-F0039			AGREED		DEPT.	NAME	SIGN	DATE	
			WT		CHHABRA	-SD-	23.9.81		

GRADE OF UNTOOL	DIM.M/CG	M/F	AA0230208	WELDING	A/B/C/D	AA0621104	GAS CUTTING-T3	AA0621101
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## TECHNICAL REQUIREMENTS: —

1. MARK IDENTIFICATION ACCORDING TO HW0400397.


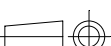
02  
SUPERSEDES

DEVELOPED LENGTH=420



BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

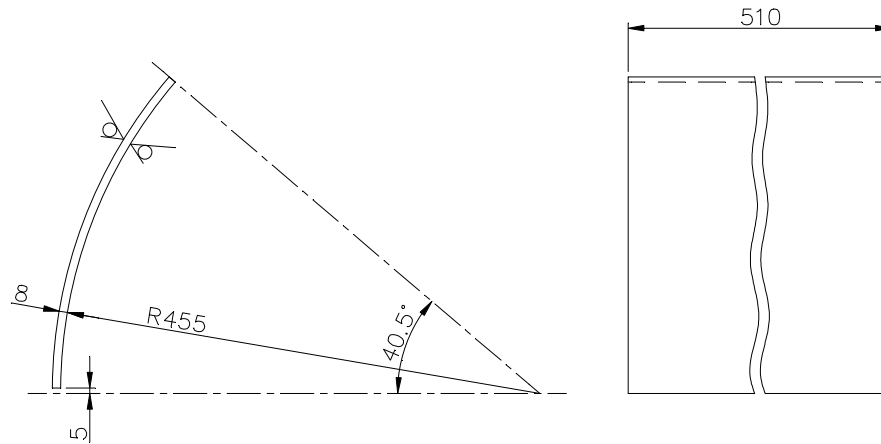
	NAME	SIGN	DATE	NO. OF VAR
DRN	TNG	-SD-	18.4.81	
CHD	KSR/KNW	-SD-	22.9.81	
APD	NPG	-SD-	28.9.81	

SIGN & DATA	<div></div> <div>BHARAT HEAVY ELECTRICALS LTD HARDWAR</div>				NAME		SIGN	DATE	No. OF VAR			
					DRN	TNG	—SD—	18.4.81				
					CHD	KSR/KNW	—SD—	22.9.81				
					APD	NPG	—SD—	28.9.81				
INVENTORY No.	DEPT.TGE		SCALE 1:1	WEIGHT(Kg) 13.520	REF.TD ASSY.DRG.				ITEM No.	No OF ITEMS —		
	CODE 4133				01440401001				024			
	TITLE				DRAWING No.							
	SHEET				41440401040							
	(B'LESS EXCITER FOR 500MW TG)				SHEET No.1							
				No.OF SHEETS1								



FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	PA —SD— RM —SD—	CBOM No. 01440401003		STATUS OF DRG	
			01	26.02.22			AGREED DEPT.	NAME	SIGN	DATE
			CHANGES AS PER C/A NO. TGE-22-F0039				WT	CHHABRA	—SD—	23.9.81
GRADE OF UNTOOL				DIM/M/CG/M/F.AA0230208			WELDING A/B/C/D AA0621104		GAS CUTTING-T3 AA0621101	


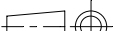
500/  
✓ THE REST

## TECHNICAL REQUIREMENTS:—

1. IDENTIFICATION ACCORDING TO HW 0400397.

01  
SUPERSEDES

DEVELOPED LENGHT=320

<div><div><div>बीएसईएल</div><div></div></div><div>BHARAT HEAVY ELECTRICALS LTD HARDWAR</div></div>				NAME		SIGN		DATE		NO. OF		
				DRN	TNG		—SD—		25.4.81		DF	
				CHD	KSR/KNW		—SD—		22.9.81		VAR	
				APD	NPG		—SD—		28.9.81		—	
DEPT. TGE			SCALE	WEIGHT(Kg)	REF.TD ASSY.DRG.				ITEM	No OF		
CODE 4133			1:5		31440401016				No.		ITEMS	
TITLE		SHEET (B'LESS EXCITER FOR 500MW TG)			DRAWING No.				41440401041			
					SHEET No.1						No.OF SHEETS 1	

SIGN & DATE	26-5607-86545a/KWJ (ITEM No.09) REF.DRG.No.	Bharat Heavy Electricals Ltd HARDWAR	NAME TNG KSR/KNW NPG	SIGN -SD- -SD- -SD-	DATE 25.4.81 22.9.81 28.9.81	NO. OF VAR —

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.	STATUS
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003	OF DRG
			CHANGES AS PER C/A NO.			AGREED	NAME	SIGN
			TGE-22-F0039			DEPT.	CHHABRA	DATE
						WT	-SD-	23.9.81
GRADE OF UNTO			DIM.M/CG/M/F.AA0230208			WELDING A7B/C/D AA0621104		
						GAS CUTTING-T3 AA0621101		

500  
THE REST

160

11.85

(3.15)

45°

01

SUPERSEDES

TECHNICAL REQUIREMENT: —

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

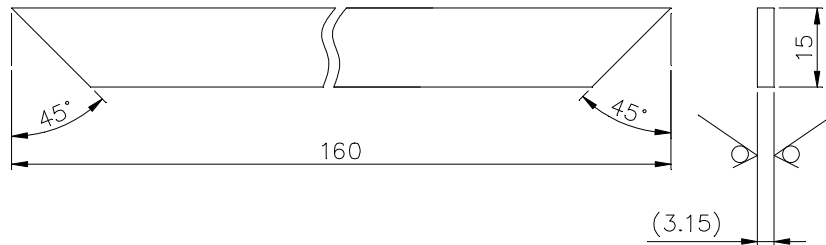
	NAME	SIGN	DATE	NO. OF VAR
DRN	TNG	—SD—	25.4.81	—
CHD	KSR/KNW	—SD—	22.9.81	—
APD	NPG	—SD—	28.9.81	—

INVENTORY No.	DEPT.TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	1:2	0.047	21440401002	002	—
TITLE				DRAWING No.		
SHEET				41440401043		
(B'LESS EXCITER FOR 500MW TG)				SHEET No.1	No.OF SHEETS1	

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.	STATUS
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003	OF DRG
CHANGES AS PER C/A NO.			AGREED	NAME	SIGN	DATE		
TGE-22-F0039			DEPT.	CHHABRA	-SD-	23.9.81		
			WT					


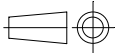
GRADE OF UNTO	DIM.M/CG	M/F	AA0230208	WELDING	A/B/C/D	AA0621104	GAS CUTTING-T3	AA0621101
---------------	----------	-----	-----------	---------	---------	-----------	----------------	-----------

500  
THE REST

## TECHNICAL REQUIREMENT: —

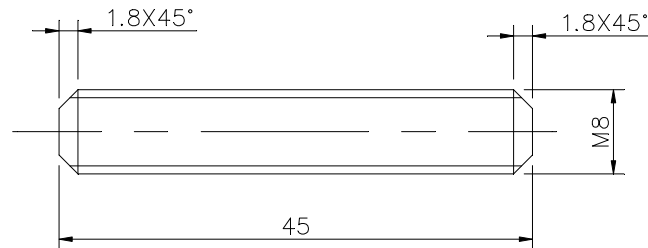
- MARK IDENTIFICATION ACCORDING TO HW0400397.

01  
SUPERSEDES

SIGN & DATE	<div>BHARAT HEAVY ELECTRICALS LTD HARDWAR</div>			DRN	NAME	SIGN	DATE	NO. OF VAR	
				CHD	TNG	— SD —	25.4.81	—	
				APD	KSR/KNW	— SD —	22.9.81	—	
				APD	NPG	— SD —	28.9.81	—	
INVENTORY No.	DEPT.TGE		SCALE	WEIGHT(Kg)	REF.TD ASSY.DRG.		ITEM No.	No OF ITEMS	
	CODE 4133		1:1	0.054	21440401002		001	—	
	TITLE				DRAWING No.				
	(B'LESS EXCITER FOR 500MW TG)				41440401044				
				SHEET No.1		No.OF SHEETS1			

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	PA -SD-	CBOM No.	STATUS		
		CHECKED	01	26.02.22	CHECKED	DRM -SD-	01440401003	OF DRG		
			CHANGES AS PER C/A NO.				AGREED	NAME	SIGN	DATE
			TGE-22-F0039				WT	CHHABRA	-SD-	23.9.81
GRADE OF UNTO			DIM.M/CG/M/F.AA0230208			WELDING A/B/C/D.AA0621104	GAS CUTTING-T3 AA0621101			

12.5  
ALL OVER

## TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW0400397.

01


SUPERSEDES

26-5607-865450K.W.U.  
IT.45REF.DRG.No. (DIN976)

SIGN &amp; DATE

BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

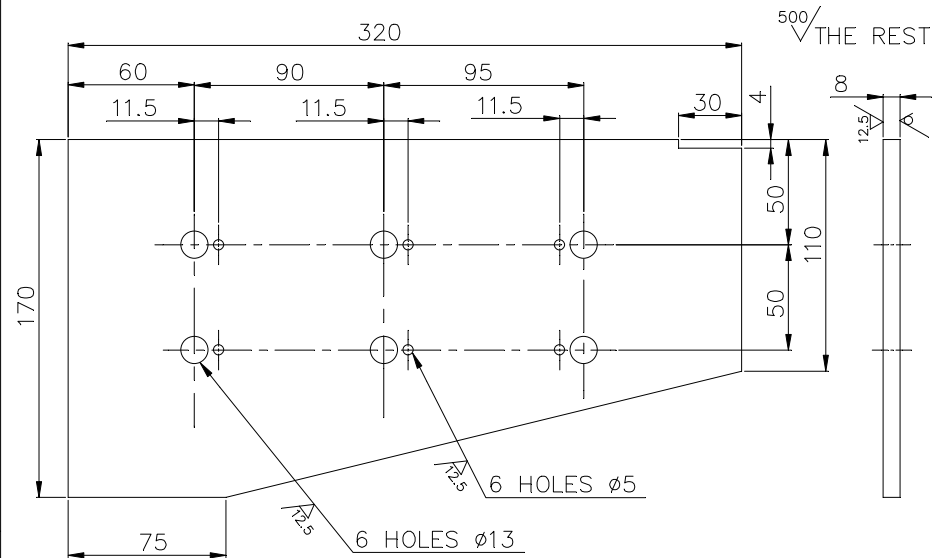
	NAME	SIGN	DATE	NO. OF VAR
DRN	TNG	-SD-	25.4.81	
CHD	KSR/KNW	-SD-	22.9.81	
APD	NPG	-SD-	28.9.81	-

INVENTORY No.	DEPT.TGE		SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS	
	CODE 4133		2:1	0.013	01440401001	010	—	
	TITLE				DRAWING No.			
	STUD				41440401045			
	(B'LESS EXCITER FOR 500MW TG)				SHEET No.1			No.OF SHEETS1

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	CBOM No.		STATUS	
		CHECKED			CHECKED	01440401029		OF DRG	
						AGREED	NAME	SIGN	DATE
						DEPT.	AWTXIS	AWTXIS	28/08/2010
						WTX			

GRADE OF UNTO L DIM M / CGC / M / F AA0230208 WELDING A / B / C / D AA0621104 GAS CUTTING - T3 AA0621101



## TECHNICAL REQUIREMENT :

1. MARK IDENTIFICATION ACCORDING TO HW 0400397.

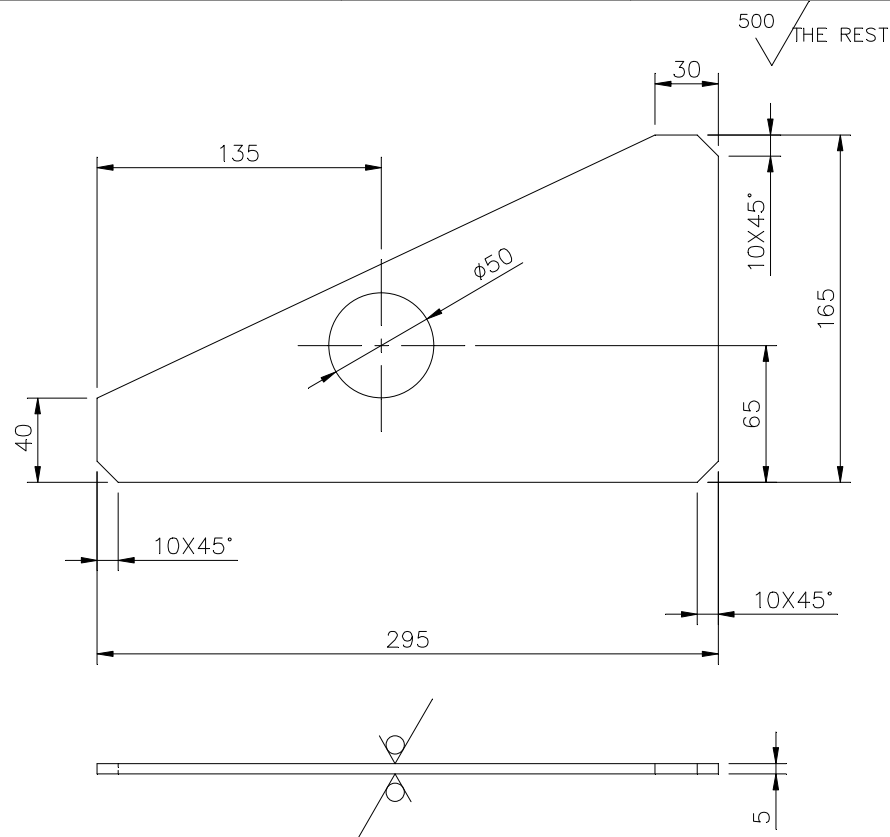
SIGN & DATE	<div><div><div>बीएसईएल</div><div>BHEL</div></div></div> <div>BHARAT HEAVY ELECTRICALS LTD HARDWAR</div>				DRN	NAME	SIGN	DATE	NO. OF VAR
	CHD	STGEVK	STGEVK	05/08/2010					
	APD	STGESSM	STGESSM	05/08/2010					
	APD	ATGEVK	ATGEVK	01/10/2010					
INVENTORY No.	DEPT.TGE		SCALE	WEIGHT(Kg)	REF.TD ASSY.DRG.		ITEM	No OF ITEMS	
	CODE 4133		1:2.5	2.87	01440401031		No.		
	TITLE				DRAWING No.		001		
	SHEET				41440401311				
(B'LESS EXCITER FOR 800MW TG)				SHEET No.1		No.OF SHEETS1			





FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	CBOM No. 01440401029	STATUS OF DRG
						AGREED DEPT. WTX	NAME SIGN DATE AWTXBLMAWTXBLM28/07/2020
GRADE OF UNTO L.DIM.M/CGC/M/F.AA0230208						WELDING A7B/C/D AA0621104	GAS CUTTING-T3 AA0621101



## TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW0400397.

BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	STGEPA	STGEPA	07/03/2017	
CHD	STGESSM	STGESSM	07/03/2017	
APD	STGESSM	STGESSM	20/10/2020	

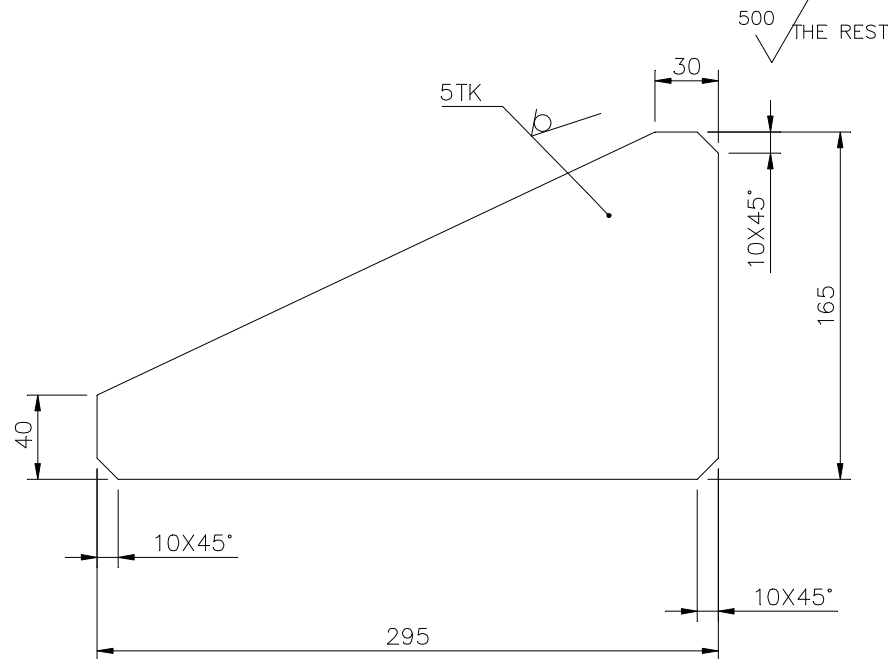
INVENTORY No.	DEPT.TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	1:2.5	1.18	01440401031	012	
TITLE SHEET				DRAWING No. 41440401338	REV	
				SHEET No.1	No.OF SHEETS1	



FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	CBOM No. 01440401029	STATUS OF DRG
						AGREED DEPT. WTX	NAME SIGN DATE AWTXBLMAWTXBLM28/09/2020

GRADE OF UNTOOL	DIM.M/CGC/M/F	AA0230208	WELDING A/B/C/D	AA0621104	GAS CUTTING-T3	AA0621101
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## TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW0400397.



BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	STGEPA	STGEPA	18/05/2020	
CHD	STGERY	STGERY	07/09/2020	
APD	STGESSM	STGESSM	20/10/2020	

INVENTORY No.	DEPT.TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	1:2.5	1.255	01440401031	002	
TITLE SHEET				DRAWING No. 41440401351		
				SHEET No.1 No.OF SHEETS1		

FIRST ANGLE PROJECTION

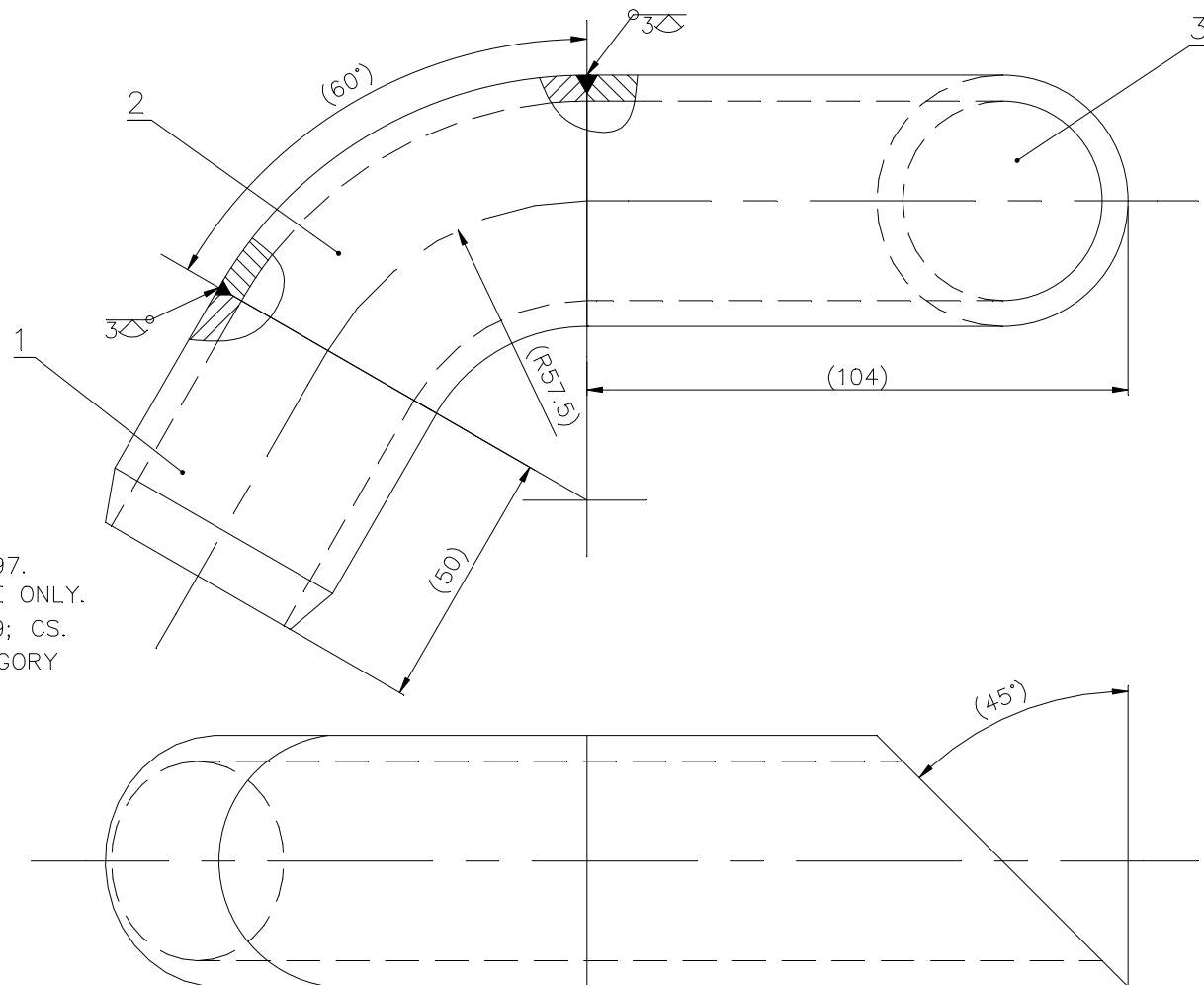
(ALL DIMENSIONS ARE IN mm)

FORM: DG-38(B)

DRAWING NO.  
31440401150

## TECHNICAL REQUIREMENTS:

1. MARK IDENTIFICATION ACCORDING TO HW0400397.
2. DIMENSIONS IN BRACKETS ARE FOR REFERENCE ONLY.
3. QUALITY GRADE OF WELDS AS PER HW0620099; CS.
4. TEST SCOPE ACCORDING TO HW0850199, CATEGORY OF SERVICE REQUIREMENT 4.



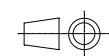
			CBOM NO. 01440401029		STATUS OF DRG.	
			AGREED DEPT.	NAME	SIGN	DATE
GRADE OF UNTOL. DIM.: –			WTX	AWTXTSC	AWTXTSC	30/09/2010
M/CG– V/C/M/F AA 0230208						
WELDING–A/B/C/D–AA621104						
GAS CUTTING–’T3’AA0621101						
REV.	DATE	ALTERED CHECKED	REV.	DATE	ALTERED CHECKED	

TYPE OF PRODUCT  
OR  
NAME OF CUSTOMER/ PROJECTB,LESS EXCITER FOR  
800MW TG.BHARAT HEAVY ELECTRICALS LTD.  
HARDWAR

DEPT. TGE

CODE 4133

TITLE

SCALE  
1:1WEIGHT(Kg.)  
.86

NAME	SIGN	DATE	NO.OF VAR.
STGEVK	STGEVK	05/08/2010	
STGEAV	STGEAV	07/09/2010	
ATGEVK	ATGEVK	01/10/2010	73, 74
REF. TO ASSY. DRG.			ITEM NO.
11440401039			007
			75, 77

DRAWING NO.  
31440401150

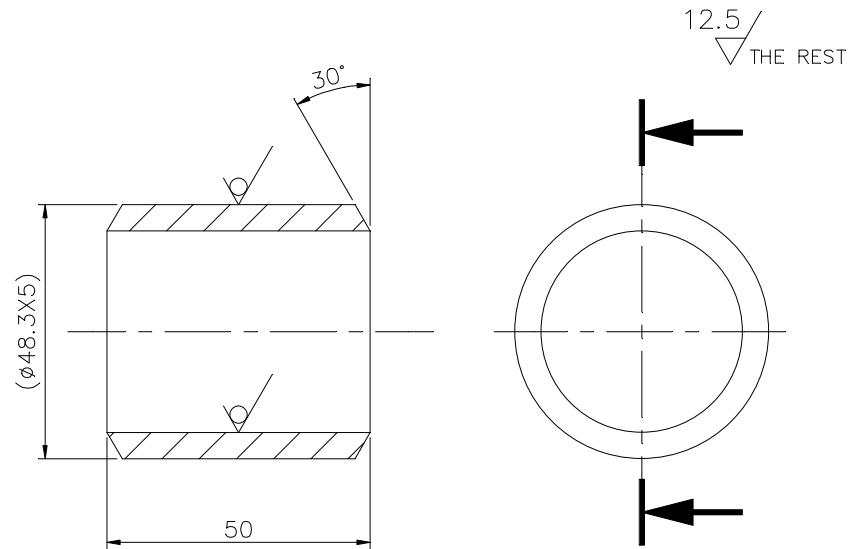
SHEET NO.1

NO.OF SHEETS 1

SIZE A3

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	CBOM No. 01440401029		STATUS OF DRG	
						AGREED DEPT.	NAME	SIGN	DATE
						WTX	AWTXIS	AWTXIS	28/08/2010
GRADE OF UNTOOL.DIM.M/CGZ/M/F.AA0230208			WELDING-A/B/C/D-AA0621104			GAS CUTTING-T3 AA0621101			



## TECHNICAL REQUIREMENT:


1. MARK IDENTIFICATION ACCORDING TO HW 0400397.

26-5607-124522/001  
REF.DRG.No.

SIGN &amp; DATE

BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

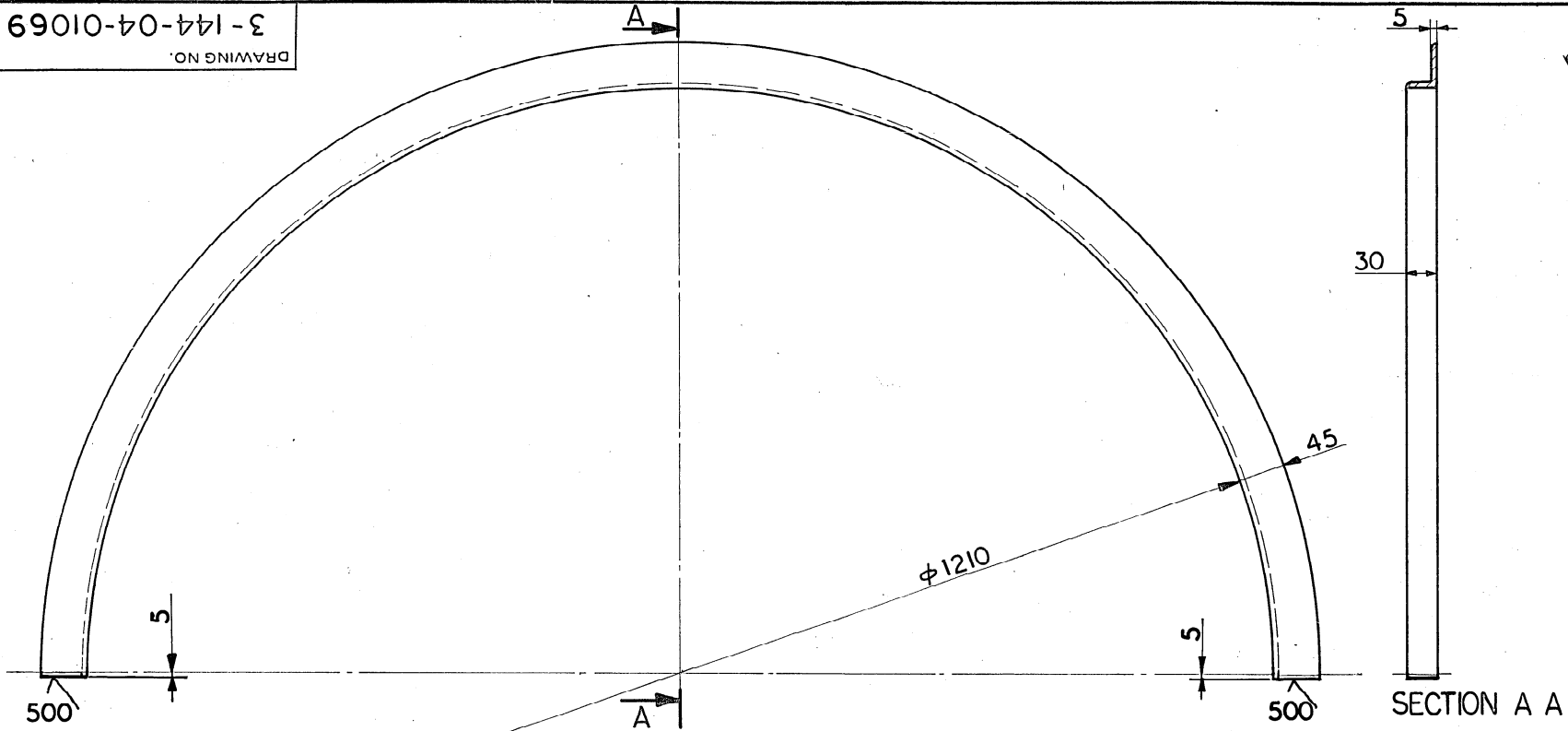
	NAME	SIGN	DATE	NO. OF VAR
DRN	STGEVK	STGEVK	05/08/2010	
CHD	STGESSM	STGESSM	05/08/2010	
APD	ATGEVK	ATGEVK	01/10/2010	

INVENTORY No.	DEPT.TGE		SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS	
	CODE 4133		1:1	.24	31440401150	001		
	TITLE				DRAWING No.			
	PIPE (B'LESS EXCITER FOR 800MW TG)				41440401313			
					SHEET No.1	No.OF SHEETS1		

69010-04-01069

DRAWING NO.

✓ THE REST ✓



DEVELOPED LENGTH = 1982

## TECHNICAL REQUIREMENT

I. IDENTIFICATION ACCORDING TO HW 0400397.

—	—	—	ANGLE	—	—	—	HW 1012608964	—	—	5570
VAR. 00	REMARKS	ITEM NO.	DESCRIPTION	59	DRAWING NO.	29 31	MATERIAL CODE	55 57	UNIT WT. (Kg.)	72
59	04 65	75 25 27 29	58	STD. 60	77	32 33 46	MATERIAL SPECN.	54	UNIT	66 71
CARD TYPE-3			CARD TYPE-1			CARD TYPE-2				

GMS/GR. SP. NO.				STATUS OF DRG.	
0-144-04-01011					
AGREED DEPT.	NAME	SIGN.	DATE		
WT	Roy	<i>[Signature]</i>	21/5/90		

TYPE OF PRODUCT  
OR BRUSHLESS EXCITER FOR 500 MW TG.  
NAME OF CUSTOMER/PROJECT



**BHARAT HEAVY ELECTRICALS LTD.**  
RANIPUR - HARDWAR.

DRN.	NAME	SIGN.	DATE	NO. OF VAR.
CHD.	T. N. G.	<i>[Signature]</i>	20/2/90	—
APPD.	S.M.	<i>[Signature]</i>	20/3/90	—
	I. C. RAO	<i>[Signature]</i>	16/6/90	73, 74

REV	DATE	ALTERED
		CHECKED

DEPT.	GRADE OF UNFOLD DIM	SCALE	WEIGHT (Kg)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
T.G.E.	4135	1:5	5-570	1-144-04-01023	003	—
CODE	4135	1:5	5-570	1-144-04-01023	003	75, 77

TITLE	CARD CODE	DRAWING NO.	REV.
ANGLE	—	3-144-04-01069	—
		71	122, 23, 24
		SHEET NO.	NO. OF SHEETS

SIZE A3

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It must not be used directly or indirectly in anyway detrimental to the interest of the company.

25-5607-98976 b jk.w.u.  
(ITEM NO. 25)  
Ref. Drg. No.

18/7/90  
Sign & Date

Inventory No.  
661-14701

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in anyway detrimental to the interest of the company.

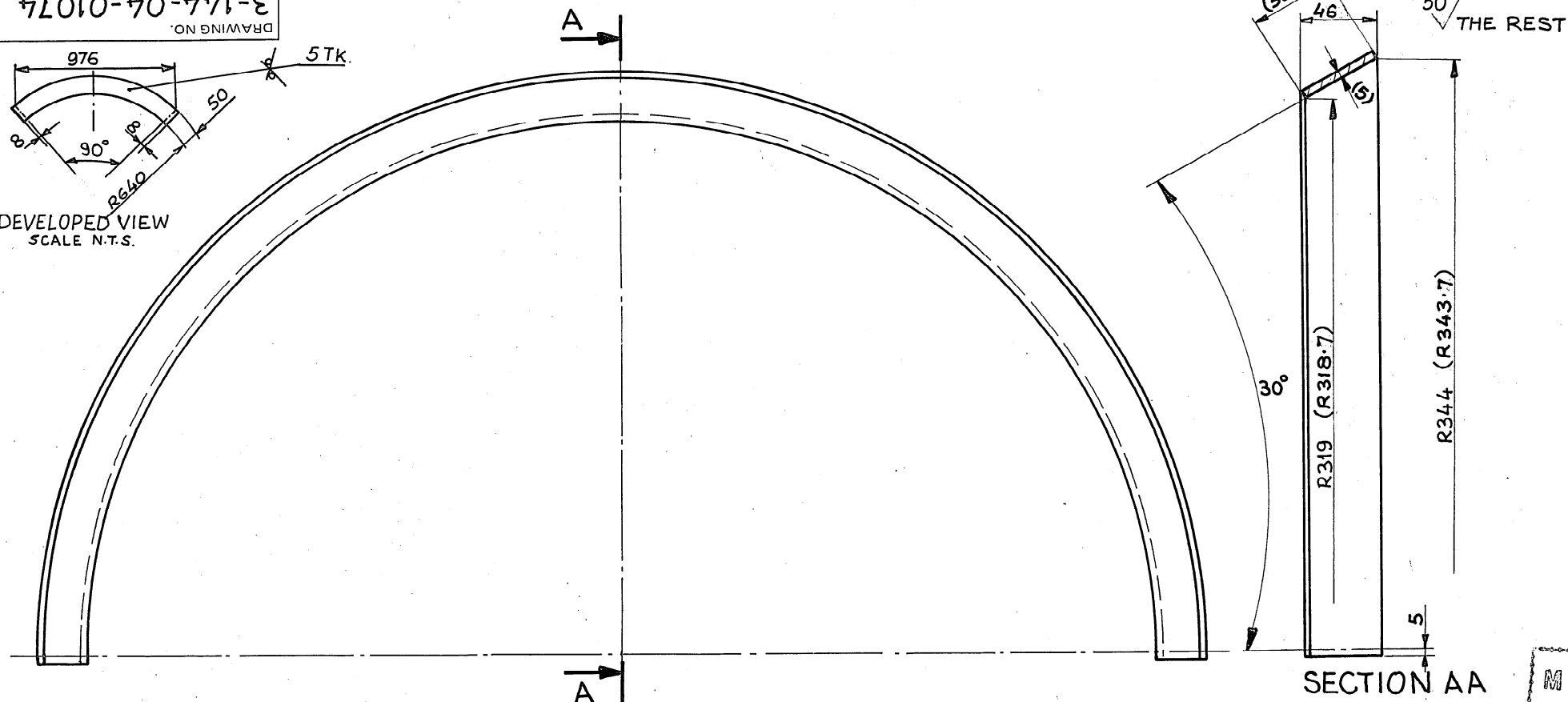
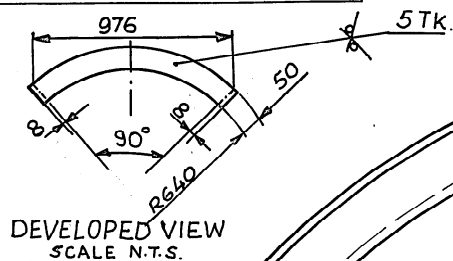
26-5607-99390/KWU  
(ITEM NO. 68)  
Ref. Drg. No.

**Sign & Date**

Inventory No. Et-1-14706

3-144-04-01074



DRAWING NO.



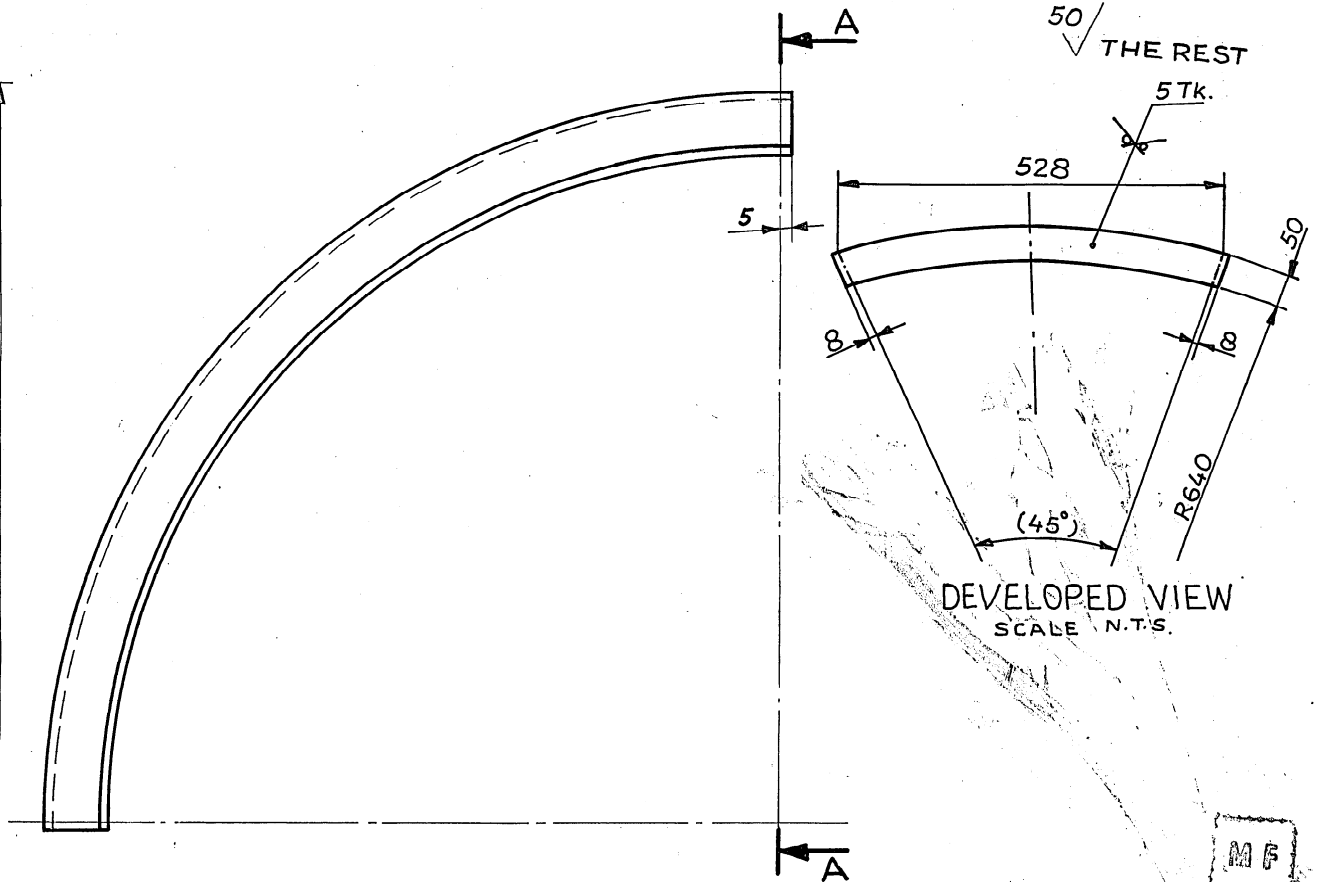
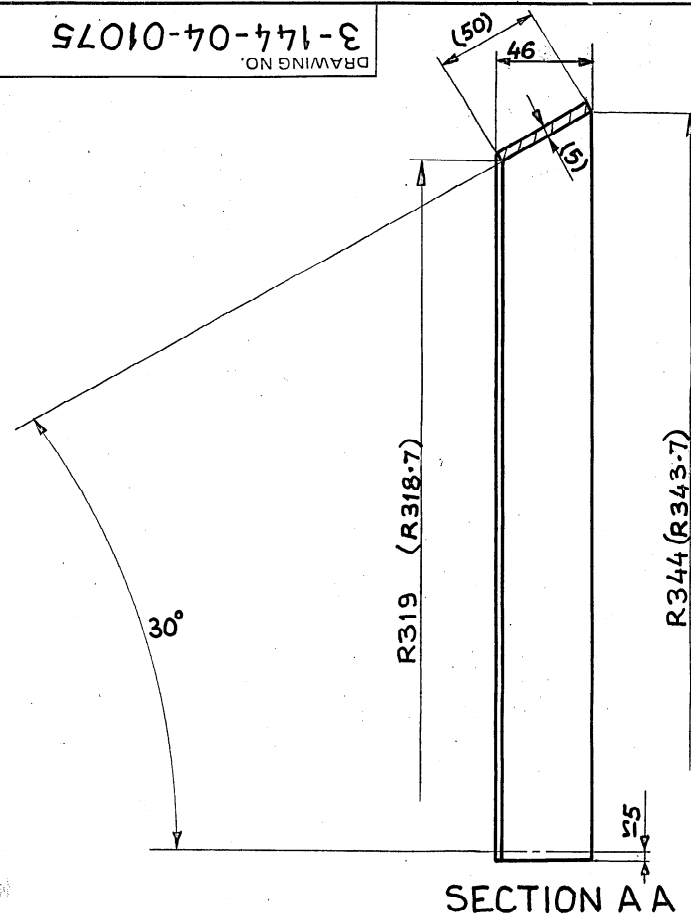
## TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HW0400397.  
2. DIMENSIONS IN BRACKETS ARE THEORITICAL.

—	—	—	PLATE	—	—	—	AA1011808013	—	—	2000	—
							AA 10108			—	
VAR. 00	REMARKS	ITEM NO.	DESCRIPTION	59	DRAWING NO.	29 31 —	34 MATERIAL CODE 45	55 57 —	58 UNIT WT. (Kg.) 65	72	
59 64 65	75 25 27	29	58 60 66	77	VAR.	32 33 46	MATERIAL SPECN 54	A C	UNIT 66	71 73	
CARD TYPE-3 28 →				CARD TYPE-1				CARD TYPE-2			

GMS/CR-CP-NO. 0-144-04-01011				STATUS OF DRG.		TYPE OF PRODUCT OR BRUSHLESS EXCITER FOR 500 MWTG.															
AGREED DEPT. WT		NAME Roy		SIGN. [Signature]		DATE 21/5/90		NAME OF CUSTOMER/PROJECT													
						 BHARAT HEAVY ELECTRICALS LTD. RANIPUR - HARDWAR.		DRN. T. N. G.		SIGN. [Signature]		DATE 15.5.90		NO. OF VAR.							
								CHD. S. M.		[Signature]		15.5.90.		-							
								APPD. I. C. RAO		[Signature]		16.6.90		73/74							
REV		DATE		ALTERED		DEPT. T. G. E.		GRADE OF UNTOLDIM				SCALE 1 : 2.5		WEIGHT (Kg) 2.000		REF. TO ASSY. DRG.				ITEM NO.	
				CHECKED		CODE 4233		d/m/t				1-144-04-01023				005		NO. OF ITEMS 001			
						TITLE PLATE						CARD CODE -		DRAWING NO. 3-144-04-01074				REV.			
																		SHEET NO. 1			

SIZE A3

3-144-04-01075  
DRAWING NO.

## TECHNICAL REQUIREMENTS

1. IDENTIFICATION ACCORDING TO HWO400397.
2. DIMENSIONS IN BRACKETS ARE THEORITICAL.

VAR. 00	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	AA1011808013	1000
59	64	65	75	25	27	29
58	59	60	77	32	33	46
CARD TYPE-3			CARD TYPE-1			CARD TYPE-2

GMS/CR. SP. NO. 0-144-04-01011				STATUS OF DRG.
AGREED DEPT.	NAME	S/GN.	DATE	
WT	ROY	100	21/5/90	

TYPE OF PRODUCT

OR

NAME OF CUSTOMER/PROJECT

BRUSHLESS EXCITER FOR 500 MWTG.

DRN.	NAME	SIGN.	DATE	NO. OF VAR.
CHD.	T.N.G.	100	15.5.90	
APPD.	S.M.	100	15.5.90	
	I.C. RAO	100	16.6.91	73/74

BHARAT HEAVY ELECTRICALS LTD.  
RANIPUR - HARDWAR.

REV	DATE	ALTERED
		CHECKED

DEPT.  
T.G.E.  
CODE  
4233GRADE OF  
UNTOLDIM  
Q/M/VSCALE  
1:2.5WEIGHT (Kg)  
1.000REF. TO ASSY. DRG.  
1-144-04-01023ITEM NO.  
006

TITLE

PLATE

CARD CODE

DRAWING NO.  
3-144-04-01075

SHEET NO. 1 NO. OF SHEETS:- 1

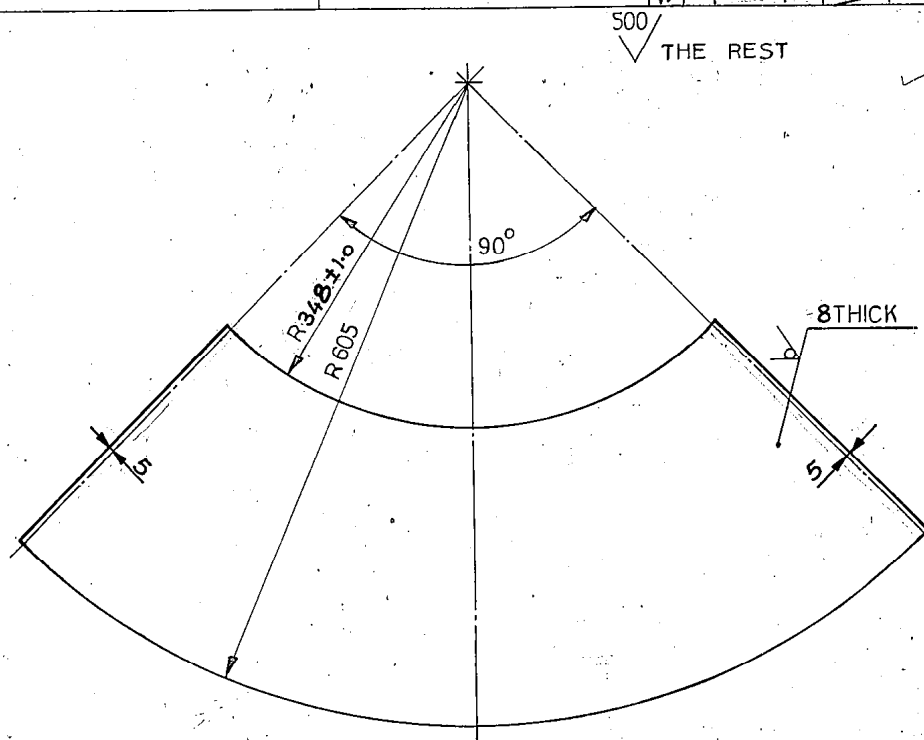
SIZE A3

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26-5607-99390/KWU  
(ITEM No. 69)  
Ref. Drg. No.18-7-90  
Sign & DateInventory No.  
ELV. 14707

## FIRST ANGLE PROJECTION ( ALL DIMENSIONS ARE IN mm )

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS. NO.	STATUS OF DRG.
		CHECKED			CHECKED	0-144-04-01011	U
						AGREED DEPT.	NAME
						WT	ROY
						SIGN	DATE
							21/5/90



## TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 04 00 397.



—	—	SHEET	—	—	AA1011808056	—	—	12/260
REMARKS.	ITEM NO.	DESCRIPTION	STD.	VAR.	MATERIAL CODE	A	C	UNIT WEIGHT
					MATERIAL SPECN			

CARD TYPE-3 → → → CARD TYPE-1 → → → CARD TYPE-2



BHARAT HEAVY ELECTRICALS LTD.

RANIPUR - HARDWAR.

DEPT TGE	CODE 4133	SCALE 1:5	WEIGHT (KG) 12.260	REF. TO ASSY. DRG. 1-144-04-01023	ITEM NO. 002
SHEET			DRAWN T.N.G.		
(BRUSHLESS EXCITER FOR 500 MW TG.)			CHECKED S.M.		
			APPROVED I.C. RAO		

Dimensions to be Controlled Within Limits as Shown.  
Machining Tolerance  $\pm 0.25$  mm Unless Otherwise  
GRADE OF UNTOL  
Shown Non-Machining Tolerance  $\pm 0.1$  mm  $\phi$  / M / F

CARD  
CODEDRAWING NO.  
4-144-04-01177

SHEET NO.

1

NO. OF SHEETS.

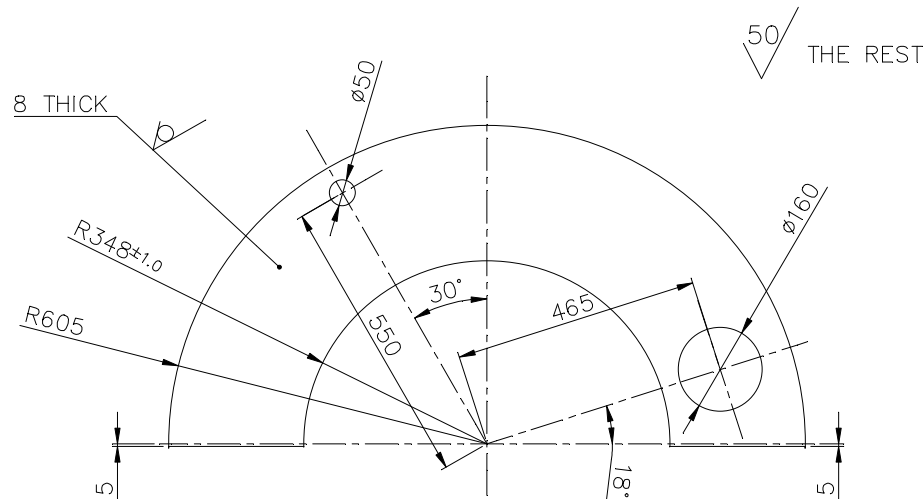
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SIZE A4

FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	CBOM No.		STATUS	
		CHECKED			CHECKED	01440401029		OF DRG	
						AGREED	NAME	SIGN	DATE
						DEPT.	AWTXIS	AWTXIS	28/08/2010
						WTX			

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



## TECHNICAL REQUIREMENT

1. MARK IDENTIFICATION ACCORDING TO HW 0400397.

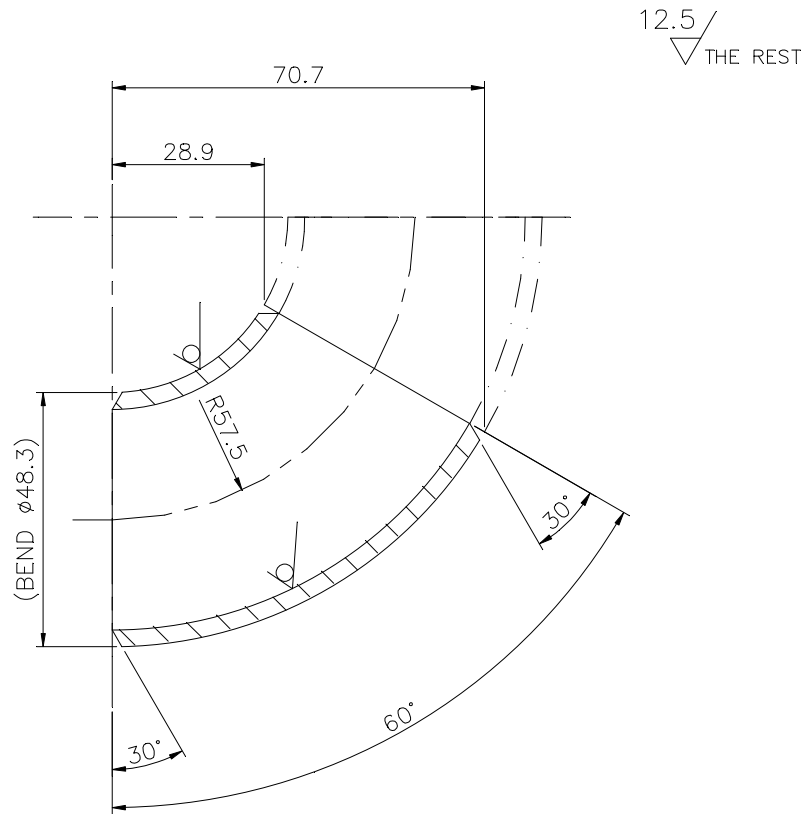
SIGN & DATE	<div><div><div>बी एच ई एल</div><div>BHEL</div></div></div> <div>BHARAT HEAVY ELECTRICALS LTD HARDWAR</div>				DRN	NAME	SIGN	DATE	NO. OF VAR
					CHD	STGEVK	STGEVK	05/08/2010	
					APD	STGESSM	STGESSM	05/08/2010	
						ATGEVK	ATGEVK	01/10/2010	
INVENTORY No.	DEPT.TGE		SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.			ITEM No.	No OF ITEMS
	CODE 4133		1:10	24.36	11440401039			004	
	TITLE				DRAWING No.				
	PLATE				41440401310				
	(B'LESS EXCITER FOR 800MW TG)				SHEET No.1			No.OF SHEETS1	



FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	CBOM No.		STATUS	
		CHECKED			CHECKED	01440401029		OF DRG	
						AGREED	NAME	SIGN	DATE
						DEPT.			
						WTX	AWTXIS	AWTXIS	28/08/2010

GRADE OF UNTOOL	DIM.M/CGZ/M/F	AA0230208	WELDING - A/B/C/D	AA0621104	GAS CUTTING-T3	AA0621101
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## TECHNICAL REQUIREMENT:

1. MARK IDENTIFICATION ACCORDING TO HW 0400397 AT BHEL WORKS.

INVENTORY No.	DEPT.TGE	SCALE	WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
	CODE 4133	1:1	.2	31440401150	002	
TITLE				DRAWING No.		
BEND				41440401315		
(B'LESS EXCITER FOR 800MW TG)				SHEET No.1 No.OF SHEETS1		



BHARAT HEAVY ELECTRICALS LTD  
HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	STGEVK	STGEVK	15/07/2010	
CHD	STGESSM	STGESSM	05/08/2010	
APD	ATGEVK	ATGEVK	01/10/2010	



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

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### 1. GENERAL.

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

### 2. ORIGIN OF QUOTATION.

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

### 3. SUBMISSION OF TENDER.

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

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

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

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

To,

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

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

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



## BHARAT HEAVY ELECTRICALS LIMITED

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

#### 4. TENDER OPENING.

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

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

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

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

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



## BHARAT HEAVY ELECTRICALS LIMITED

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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, L2 .....Status will be on the basis of Landed Cost to BHEL.**

### 7. REVERSE AUCTION.

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

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

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

### 8. DELIVERY TERMS.

a) Goods shall be delivered on 'FOR Destination' basis to the named destination unless otherwise called for in the tender enquiry.

b) Loading on account of 3rd party inspection charges in case of Indian bidders shall be 0.20%.



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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.

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

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

**11. TAXES & DUTIES.**

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

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

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





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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](http://www.bhelhwr.co.in). However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

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

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

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

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

### 14. QUALITY REQUIREMENT.

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

### 15. VALIDITY.

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

### 16. RIGHT OF ACCEPTANCE.

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



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

### 17. TRANSIT INSURANCE.

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

### 18. RISK PURCHASE.

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

### 19. FORCE MAJEURE CLAUSE.

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

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

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





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

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

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

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

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

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

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

### **20. NON-DISCLOSURE AGREEMENT.**

All Drawing and Technical Documents relating to the product or 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.



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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

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





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

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

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

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

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