

# TENDER ENQUIRY NO.: X/6620/2023/0001/C/1

## SUB:- TERMS & CONDITIONS FOR FORMING OF FRONT WALL WELDING DRG.

### NIT-Notice Inviting Tender

Salient Details of Notice Inviting Tender (NIT)		
Sl. No.	Issue	Description
1.	Item details	As per Enquiry Annexure X/6620/2023/0001/C/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: <b>01-06-2023</b> Time: <b>13:45 hrs</b> <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: 01-06-2023 Time: 14.00 Hrs</b> Notes: <b>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.</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)	<b>Rs. 1,50,000/-</b>
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, then the same may be collected against copy of Pay Order / Demand Draft of requisite tender fee (while original to be submitted with Part-I).

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

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

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

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

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

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

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

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

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

## **ESSENTIAL INSTRUCTIONS**

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

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

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

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

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



**BHARAT HEAVY ELECTRICALS LIMITED**  
**HEEP HARIDWAR INDIA-PIN 249403**  
**PHONE NO: 01334-285120**

**Tender No.: X/6620/2023/0001/C/1**

**Date: 08.05.2023**

**TERMS & CONDITIONS FOR PRE-FAB. M/C & FAB. ONLY OF FRONT WALL WELDING DRG.**

Online offers are invited through e-procurement portal <https://eprocarebhel.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 Combined Material (BHEL +PARTY) as per drg., QP & other specifications.

Sl. No.	Item Description	Drg. No.	Qty.	Weight/Piece (in kg.)
1	FRONT WALL WELDING DRG.	0107385010000	8 Nos.	14807

**\*BHEL Material Weight = 4274.06 KG. & Party Material Weight = 10532.94 KG.**

**\*Total Fabrication Weight = 4274.06 + 10532.94= 14807 kg. / pc.**

**Remark-**

- ITEM NO.8 OF CBOM NO.-01073850100-00 will be supplied by BHEL as per drg.
- RAW MATERIAL OF ITEM NO. 1, 2 & 7 OF CBOM NO.01073850100-00 is in scope of vendor and rest BHEL material.
- S.R. is in scope of BHEL.
- cleaning & NDT after S.R. (at bhel works) is in scope of vendor.
- painting is in scope of BHEL.
- job shall be cleared in control marking, post control marking defects/deformation shall be attended by vendor within 7 days of intimation of problem.
- delivery is 90 days from receipt of BHEL material.
- "Vendor must ensure availability of machining facility - Vertical Boring/Lathe for machining dia up to 1900mm required in Half Ring as per drawing. In case vendor does not have such facility and requires machining of the above item from other sub-vendor, then the vendor to mention/submit name of such vendor along with consent letter and machine details of such sub-vendor to carry out work as per drawing requirements. requirements. Vendor must submit above details along with offer for BHEL's approval."

- **TOTAL LOAD FOR THE Enquiry (Approximately) = 118456 Kg.**
- The rate (s) should be quoted in **Rupees/Piece.**
- S/R, S/B before final Assembly, if reqd., 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.



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- 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.

**2. LOAD DISTRIBUTION: -**

Load distribution of this enquiry will be as follows:

Sr. No.	Item Description	Drawing No.	Tentative Weight (Kg)/pc	QTY. (in no.)	L1(Qty.)	L2(Qty.)	L3(Qty.)
1	FRONT WALL WELDING DRG.	01073850100 00	14807	8	4	2	2

Load distribution shall be done after counter offering finalized L-1 rate to L-2, L-3...L-n vendors (n is total suitable vendors) in sequential order.

- L-1 rates, as finalized, shall be counter offered to the other bidders in case of splitting of order. In case any bidder(s) do not accept the L-1 rates, the counter-offer may be extended to other bidders.
- If any of the vendors (L-2 to L-3) do not accept finalized L1 c/offer rate, then subsequent vendors will be treated as L-2 to L-3 for load distribution purpose subject to their accepting finalized L-1 rate. For example, if L-2 doesn't accept finalized L-1 rate then L-3 to L-4 will be treated as L-2 to L-3 respectively for load distribution purpose.
- If none of the vendor (L-2 to L-n or as participated in RA) accept the c/offer rate, then L-1 vendor shall be approached for quantity discount for that additional quantity and order will be placed on L1 vendor accordingly.

**3. 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.

**4. 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.



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5. **DELIVERY:** -  
F.O.R.: HEEP, BHEL Haridwar.

6. **DELIVERY SCHEDULE:** -

Sl. No.	Item Description	Drg. No.	Qty.	Delivery
1	<b>FRONT WALL WELDING DRG.</b>	<b>0107385010000</b>	8 Nos.	Within 90 days from last BHEL material sent

If material of more than one Front Wall are sent together (material despatch date to vendor are same) then delivery date of first front wall should be 90 days from the material sent date and delivery date of the next front wall should be material sent date + 90 days + 30 days and so on.

7. **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. BG & IB conditions will as applicable as mentioned in PO. 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. (BG & IB value will be calculated on PPMIV /challan value)

**For Example:** If intimation for requirement of BG & IB of an item of a PO is given to vendor on 01.04.2022 from BHEL, then vendor should mandatorily provide required BG and IB by 15.04.2022. In case, the vendor provides the same by 30.04.2022, then the difference of 15 days (between 30.04.2022 & 15.04.2022) will be deducted from delivery days of that item and consequent PO amendment may be issued.

8. **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.



**9. 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.

**10. PAYMENT TERMS: -**

- 10.1 90% after acceptance & final clearance of SRIV. Balance 10% after FTS(Final Tally Sheet).
- 10.2 No packing and forwarding charges will be paid extra.
- 10.3 In case of rejection, total cost of material will be recovered for BHEL Material and no labour cost will be paid.
- 10.4 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.
- 10.5 Detailed terms at clause 10.0 of GISTC Rev. 06, June 2021.

**11. 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.

**12. 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.

**13. Quality Requirement: -**

- a. All party material to be procured from BHEL, approved sources only.
- b. Sub-contractor to provide a summary sheet of documents/TCs provided for correlation.
- c. Sub-contractor to mention relevant QP clauses on all TCs/ reports for every lot.
- d. Inspection by BHEL/BHEL nominated inspection agency and customer/customer nominated inspection agency as per drawing and quality plan requirements (Manufacturing Quality Plan no. 1.03.01 rev 02 Dated 18.01.2020 (DOC. NO. 4540-001-110-QVM-Q-134) is attached).

**14. 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).



**15. GENERAL INSTRUCTIONS: -**

**15.1** 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.

**15.2** 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.

**15.2.1** 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.

**15.3** 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>.

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

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

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

**15.6.1** 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.

**15.7** 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.

**15.8** 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.

**15.9** The bidders against open tender will necessarily have to obtain class – III DSCs (Digital signature). Procedure for application is available on [hwr.bhel.com](http://hwr.bhel.com).

**15.10** Following MSE conditions shall be followed: -

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).



**16. EVALUATION OF BIDS:**

- Vendors should submit filled in MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT & SUB-VENDOR QUESTIONNAIRE for NTPC/Customer approval with this enquiry. **Their price bid will be opened only when the vendor is approved by BHEL/BHEL Customer (refer attached annexure with this enquiry).**
- All vendors will be assessed on total cost to BHEL basis that includes freight, taxes, ITC etc.
- 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.

**17. Transportation: -**

Transportation of PPMIV material (BHEL 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.

**18. SCRAP: -**

- Generated scrap is to be retained by the sub-contractor. This scrap is chargeable. The scrap rate will be calculated based on the monthly market scrap price Published in MSTC Bulletin/any other document under category of scrap MELTING SCRAP. The 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.

**19. 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.

**20. 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



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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>."

**21. Conflict of Interest:** "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 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 authorise 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



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

- **Against vendor's replies, BHEL reserves the right to ask for more information/ documents / clarifications. Vendor's offer shall not be considered if vendor fails to furnish the document / information / clarifications as mentioned above or doesn't meet the acceptance criteria. Time period for technical/commercial clarification is 3 days.**
- Amendments/Corrigendum, if any, will be hosted on designated web site/ GePNIC Portal only. Other terms and conditions will be as per tender documents. Any vendor who is under hold (for the item)/ delisted/ banned with BHEL on date of opening of Part – 1 will not be allowed to quote for this tender. In case their offer is received, it may be out rightly rejected.
- 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**



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**Annexure - A**

**PRE-FAB. M/C & FAB. ONLY OF FRONT WALL WELDING DRG.**

OpenTender Enquiry No.: X/6620/2023/0001/C/1

Sl. No.	Item Description	MATERIAL BY	Quoted/Not Quoted (Price not to be quoted here)
1	<b><u>FRONT WALL WELDING DRG.</u></b> <b>(Drg. 0107385010000)</b>	<b>COMBINED MATERIAL</b> <b>(BM+PM)</b>	

Authorised Signature:  
(with date & seal of company)

Name of Supplier: -

**TERMS AND CONDITIONS FOR Enquiry No.X/6620/2023/0001/C/1**


SL.	TERMS	VENDOR'S ACCEPTANCE/ REMARKS
1	<u>Scope of Work:</u> - Complete PRE-FAB. M/C & FAB. ONLY as per Drawing/Standard, QP and Technical requirements (as per clause 1 of terms & conditions of enquiry).	
2	<u>Load distribution:</u> - (as per clause no. 2 of Terms and Conditions of enquiry)	
3	Quotation is valid for a minimum period of 90 days from date of opening of enquiry. (as per clause no. 3 of Terms and Conditions of enquiry)	
4	Submission of offers (as per clause no. 4 of Terms and Conditions of enquiry)	
5	Quoted rates are on F.O.R. sub-contract store, HEEP, Haridwar basis.(as per clause no. 5 of Terms and Conditions of enquiry)	
6	Delivery schedule as per clause 6 of T& C of enquiry.	
7	Bank Guarantee/Indemnity Bond: 25% BG & 75% Indemnity bond (as per clause 7 of T& C of enquiry)	
8	Inspection shall be done (as per clause no. 8 of Terms and Conditions of Enquiry)	
9	Guarantee Certificate shall be valid for 18 months. (as per clause no. 9 of Terms and Conditions of Enquiry)	
10	PAYMENT TERMS:- 90% after acceptance & final clearance of SRIV. 10% after FTS and final account of material (as per clause no. 10 of Terms and Conditions of Enquiry).	
11	LD clause is applicable@0.5% per week or part thereof with a maximum limit of 10% of the delayed portion of supply (as per clause no. 11 of Terms and Conditions of Enquiry).	
12	GST shall be applicable against documentary proof. Input Tax Credit shall be applicable and BHEL can claim benefit (as per clause no. 12 of Terms and Conditions of Enquiry).	
13	Quality Requirements:- (as per clause no. 13 of Terms and Conditions of Enquiry).	
14	RA:-We accept Reverse Auction(RA) clause. (as per clause no. 14 of Terms and Conditions of Enquiry).	
15	We have read clause no. 15 of terms and conditions of Enquiry and confirm to abide the same.(Clause 15.1 to 15.10)	
16	Evaluation of bids:- (as per clause no. 16 of Terms and Conditions of Enquiry).	
17	Transportation:We accept Transportation clause. (as per clause no. 17 of Terms and Conditions of Enquiry).	
18	Scrap :Confirm acceptance of Clause 18 of T & C of Enq.	
19	Rectification:We accept Rectification clause. (as per clause no. 19 of Terms and Conditions of Enquiry).	
20	We accept Risk Purchase clause. (as per clause no. 20 of Terms and Conditions of Enquiry).	
21	Conflict of Interest:Confirm acceptance of Clause 21 of T & C of Enq.	
22	We have submitted Make in India (duly filled & signed and attached.)	
23	We have submitted GISTC Rev.06 (duly filled & signed and attached.)	
24	We have submitted MSE Certificate (if applicable)	
25	<b>Rates have been quoted in indian Rupees on per piece basis.</b>	

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

**(Vendor's signature with Stamp)**


PQR for FRONT WALL 01073850100-00				
SI No	TECHNICAL REQUIREMENT	Required	Offered	Remarks
01.00	<b>Experience Required:</b> Vendors should have experience of fabricating (cutting/bending/assembly/welding/pre-fabrication machining) and supplying of at least 1 No. Front Wall (Weld) or similar fabricated components weighing 10T or above in the last 7 years from the date of enquiry.	Vendor to agree and submit documents as per Clause 03.00 or 04.00		
02.00	<b>Job (Front Wall - Welded) details:</b> i) Dimensions of job: L= upto 8 metres, W=upto 5.5 meters, H= upto 1.5 metres ii) Weight of fabricated structure - upto 18 Tons . iii). Material Grade is Mild Steel with angle/ beam & Plate thickness upto 140 mm.			
	Compliance of following in-house facilities in-line with job requirements:	Vendor to agree		
02.01	Lifting facility at vendor works should be EOT crane with capacity 20 Tons or above. Hook height of min 6m to suit job requirements	Vendor to agree & submit suitable documents/		
02.02	Vendor must have levelled bed size to fabricate and accommodate job of dimensions: L=8 metres, W=5.5 metres & H=1.5 metres (Note: Concrete floor is not acceptable)	evidence – Manufacturing Facility list with capacity details, technical specifications, technical brochure, photograph etc. of the facilities.		
02.03	Vendor must have Gas Cutting facility for plate thickness 140 mm or above.			
02.04	Cone bending/rolling facility to bend plates for thickness 30mm or above with Width 700mm or above.			
02.05	Machining facility: General purpose machining facilities- lathe, milling, drilling etc. to cater for pre-fabrication machining requirements as per drawing			
02.06	Welding shall be carried out by qualified WPS (Welding Procedure Specification)/ PQR (Procedure Qualification Record)/qualified welders with qualified WPQ (Welder Performance Qualification) as per ASME section-IX duly approved by third party (preferably by M/S Lloyds, M/S RITES, M/S TUV, M/S NTPC, M/S BVQI, M/S EIL, M/S NPCIL).	Vendor to agree and submit the copy of Third party approved WPS/PQR & WPQ		

Tanzeem W.  
25.04.2023  
TANZEEM WAHAB  
Engg., WT


  
25/04/2023  
Sushant Kr. Thakur  
Dy. Manager, HTX

03.00	Vendor to furnish certificate against clause 01.00 from the customer / company or end user duly confirming that fabricated. Front Wall (Welded) or equivalent job was supplied and used for Generator/power plant/capital goods/infrastructure application OR vendor to submit documentary evidence as per clause 04.00	Vendor to agree & submit suitable documents		
04.00	Against Clause 01.00 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 Front Wall (Welded) or equivalent.	Vendor to agree & submit suitable documents		
05.00	<b>PQR and all the relevant documents (every page) are to be signed and stamped in original by Vendor.</b> 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 agree & submit suitable documents		
06.00	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		
<b>NOTE: PQR IS NOT RESTRICTIVE</b>				

Tanzeem W.  
25.04.2023  
TANZEEM WAHAB  
Engg. - WT

  
25/04/2023  
Sushant Kr. Thekure  
Dy. Manager, B/TX

BSK  
25.04.2023  
(BS Arun)  
AGN-WT

<b>ENDORSEMENT SHEET FOR QP</b>		
REFERENCE / <del>STANDARD</del> / <del>FIELD</del> QUALITY PLAN (RQP / SQP/RFQP/SFQP)		
<i>TO BE FILLED IN BY SUPPLIER AT TIME OF SUBMISSION</i>		 To be filled in by NTPC
PROJECT NAME	2 X 660 MW TALCHER TPP	
CONTRACT NO.:	CS-4540-001A-2-FC-NOA-7227/7228	
MAIN SUPPLIER	BHEL	
MANUFACTURER WORKS & ADDRESS	M/S BHEL HEEP HARIDWAR	
ITEM /EQUIPMENT / SYSTEM/ SUB-SYSTEM DETAILS i.e. MODEL TYPE/SIZE/RATING etc.	LP TURBINE OUTER CASING (CASING UPPER PART, CASING SIDE WALL (L&R), FRONT WALL (TS&GS))	BHEL QP NO. : 1.03.01
APPROVED QP NO.: RQP/SQP/RFQP/SFQP	9915-371-110-HWR-QVM-Q-106 REV. NO.: 02 DATE: 18.01.2020	
<i>Confirmation by Main Supplier (TICK WHICHEVER APPLICABLE)</i>		<i>(TICK APPLICABLE)</i>
I. That the item/ component is identical to that considered for QP approval. OR.		<input checked="" type="checkbox"/> The QP is endorsed for this project without any change  The QP is endorsed for this project with changes as indicated.
II. That there are minor changes in the item/ component with respect to that considered for QP approval, however the same do not affect the contents of QP. OR		
<input checked="" type="checkbox"/> III. That there are minor changes in the item/ component with respect to that considered for QP approval, however the same affect the QP slightly, as indicated below / in attached sheet.		
<p><del>NOTE: Remark for cl. no. 2,200 to 2,700 may be read as "** in case of sub-contracting on BHEL accepted sub-contractors" in place of "** in case of sub-contracting on BHEL approved sub-contractors. List attached"</del></p> <p><del>REASON FOR CHANGE: List of BHEL accepted sub-contractors is dynamic &amp; cannot be restricted to the list existing at the time of approval of QPs for 660 MW Khurja Project.</del></p>		
<i>Deepika Singh</i> SIGN.: (Main Supplier)      DATE:20.12.2022	SIGN.: (Manufacturer)	DATE:
		NTPC (Reviewed /Approved by/ Date & Seal)

*Chandekar*



## MANUFACTURING QUALITY PLAN

ITEM: LP TURBINE OUTER CASING (CASING UPPER PART, CASING SIDE WALL (L&R), FRONT WALL (TS&GS))	PROJECT: KHURJA STPP (2 X 660 MW) PACKAGE: MAIN PLANT PACKAGE CONTRACT NO. 9915-371 MAIN SUPPLIER: BHEL, Haridwar
	QP NO.: 1.03.01 REV. 02 DATE: 18-JAN-2020 PAGE 1 OF 1

SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
								S	D	S	B	C	
1	2	3	4	5	6	7	8	9	D	10			11
1.000	Material receiving inspection.	Verification of supplier's Certificates of plates > 40 mm thickness.	Major	Certificate review	100%	Test Certificate	AA10119/ AA10401	List of Q. Nos.	✓	-	p	V	Refer Note-1
2.000	In process inspection												
2.100	Visual inspection	Visual inspection of welds	Major	Visual	100%	Drawing	Drawing	Obs. Sheet		-	P	-	
2.200	Stress relieving	Stress relieving Records	Major	Record Review of SR Graph	100%	Drawing	Drawing	SR Graph	✓	P*	P/ V*	V	* in case of sub-contracting on BHEL approved sub-contractors List attached.
2.300	NDT	RT of butt welds (if applicable)	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ V*	V	
2.400		UT of butt welds (if applicable)	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ W*	W/ V*	
2.500		DPT of welds	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ W*	V	
2.600		DPT of welds for lifting lugs	Major	NDT	As per Drg.	Drawing	Drawing	Report	✓	P*	P/ W*	V	
2.700	Dimensions	Verification of machined dimensions & visual inspection after Machining	Major	Measurement	Random	Drawing	Drawing	Obs. Sheet/ Logsheet	✓	P*	P/ W*	W/ <del>V*</del>	
3.000	Final inspection												
3.100		Predispatch inspection	Major	Visual	100%	Drawing	Drawing	COC		-	P	-	

Signature Not Verified  
 Digitally signed by HIRENDRA SONIKAR  
 Date: 2020.01.22 10:32:19 IST  
 Reason: CAT I

Note: 1) BHEL approved source of original plate manufacturer. Q number is to be verified by NTPC as per MOM dated: 17.10.07 pt. n 10

	 (I B Kumar)	Legend: Records identified with "tick" shall be submitted to customer as a QA Documentation package. S= sub-vendor, B= BHEL/ BHEL nominated inspection agency, C= Customer/ customer representative, P= Perform, V= Review of records W= Customer witness (not hold, BHEL to give advance notice and customer to Associate but work will not stop. CHP= Customer Hold Point (work will not proceed unless the clearance from customer)	Location: NTPCEOC	DOC. NO. 9915-371-110-HWR-QVM-Q-106 REV 02 CAT .....		
MANUFACTURER/ SUB-CONTRACTOR	Approved By: (A K Swami)  MAIN-SUPPLIER		FOR CUSTOMER USE	REVIEWED BY	APPROVED BY	APPROVAL SEAL
<b>SIGNATURE</b>						



**CORPORATE QUALITY ASSURANCE**  
**MAIN CONTRACTOR'S PROPOSAL CUM EVALUATION REPORT**

<b>Ref No:</b>				<b>Date:</b>			
<b>i.</b>	<b>Main Contractor</b>						
<b>ii.</b>	<b>Project</b>						
<b>iii.</b>	<b>Package Name</b>			<b>Package No</b>			
<b>iv.</b>	<b>Proposed Item/Scope of Sub-contracting</b>						
<b>v.</b>	<b>Item covered under</b>	<b>Schedule-1</b>				<b>As per contract clause No-</b>	
		<b>Schedule-2</b>					
<b>vi.</b>	<b>If item is Schedule-1 and proposed sub-vendor is indigenous, Main Contractor to explain how the contractual provisions will be fulfilled</b>						
<b>vii.</b>	<b>Name and Address of the proposed Sub-vendor's works</b>						
<b>viii.</b>	<b>PO placement date/ Start of manufacturing (if self-manufactured) as per L2 network</b>						
<b>ix.</b>	<b>Item Description (Type/Size/Rating/Scope of Sub-Contracting)</b>	<b>Total quantity of proposed item envisaged in this package (Nos/ Running Meters/ Kgs/ Tons etc)</b>	<b>Quantity proposed to be procured from proposed sub-vendor (Nos/ Running Meters /Kgs /Tons etc)</b>	<b>Timeline for quantity requirements as per project schedule &amp; whether the proposed Sub-vendor equipped with adequate capacity to supply proposed order quantity in time</b>			
<b>x.</b>	<b>Supply experience of the proposed sub-vendor (including supplies to Main Contractor, if any) for similar item/scope of sub-contracting, for last 3 years (Note:- Only relevant experience details w.r.t. proposed item/scope of subcontracting to be brought out here)</b>						
	<b>Project/Package</b>	<b>Customer Name</b>	<b>Supplied Item (Type/Rating/Model /Capacity/Size etc)</b>	<b>PO ref no/date</b>	<b>Supplied Quantity</b>	<b>Date of Supply</b>	
<b>We confirm that as per our assessment, the proposed sub-vendor has requisite capabilities &amp; supply experience and is suitable for supplying the proposed item/scope of sub-contracting.</b>							
<b>Name:</b>			<b>Desig:</b>			<b>Sign:</b>	<b>Date:</b>

Company's Seal/Stamp:-

Format No. : QS-01-QAI-P-04/F1-R3

1/1

Engg. div./QA&I



# CORPORATE QUALITY ASSURANCE

## SUB-VENDOR QUESTIONNAIRE

i.	Item/Scope of Sub-contracting	
ii.	Address of the registered office	Details of Contact Person (Name, Designation, Mobile, Email)
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured	Details of Contact Person: (Name, Designation, Mobile, Email)
iv.	Annual Production Capacity for proposed item/scope of sub-contracting	
v.	Annual production for last 3 years for proposed item/scope of sub-contracting	
vi.	<b>Details of proposed works</b>	
1.	Year of establishment of present works	
2.	Year of commencement of manufacturing at above works	
3.	Details of change in Works address in past (if any)	
4.	Total Area	
	Covered Area	
5.	Factory Registration Certificate	Details attached at Annexure – F2.1
6.	Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design Details attached at Annexure – F2.2 (if applicable)
7.	Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)	Details attached at Annexure – F2.3
8.	After sales service set up in India, in case of foreign sub-vendor (Location, Contact Person, Contact details etc.)	Applicable / Not applicable Details attached at Annexure – F2.4
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any	Details attached at Annexure – F2.5
10.	Sources of Raw Material/Major Bought Out Item	Details attached at Annexure – F2.6



# CORPORATE QUALITY ASSURANCE

## SUB-VENDOR QUESTIONNAIRE

11.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing	Details attached at Annexure – F2.7				
12.	Manufacturing facilities (List of machines, special process facilities, material handling etc.)	Details attached at Annexure – F2.8				
13.	Testing facilities (List of testing equipment)	Details attached at Annexure – F2.9				
14.	If manufacturing process involves fabrication then-	Applicable / Not applicable				
	List of qualified Welders	Details attached at Annexure – F2.10				
	List of qualified NDT personnel with area of specialization	(if applicable)				
15.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses	Applicable / Not applicable  Details attached at Annexure. –F2.11 (if applicable)				
16.	Supply reference list including recent supplies	Details attached at Annexure – F2.12 (as per format given below)				
<i>Project/ package</i>	<i>Customer Name</i>	<i>Supplied Item (Type/Rating/Model /Capacity/Size etc)</i>	<i>PO ref no/date</i>	<i>Supplied Quantity</i>	<i>Date of Supply</i>	
17.	Product satisfactory performance feedback letter/certificates/End User Feedback	Attached at annexure - F2.13				
18.	Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating) Note:- Reports need not to be submitted	Applicable / Not applicable  Details attached at Annexure – F2.14 (if applicable)				
19.	Statutory / mandatory certification for the proposed product	Applicable / Not applicable  Details attached at Annexure – F2.15 (if applicable)				
20.	Copy of ISO 9001 certificate (if available)	Attached at Annexure – F2.16				
21.	Product technical catalogues for proposed item (if available)	Details attached at Annexure – F2.17				
<b>Name:</b> _____ <b>Desig:</b> _____ <b>Sign:</b> _____ <b>Date:</b> _____						

Company's Seal/Stamp:-

**Self-certification**

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

.....

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

.....

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

.....

.....

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

Seal & Signature of Supplier



## COMBINED BILL OF MATERIAL

Printed On:01.05.2023

Printed By:

CBOM No: 01073850100 CBOM Var: 00 Revno: 6 Rev Date: 13.08.2020  
Description: LP FRONT WALL WELDING DRG. Total weight: 14656.69

### RECORD OF CHANGES

Drawing No	Var	Revno	Rev Date	Description
01073850100	00	1	12.04.2018	Auto Revision 41073859108/00
01073850100	00	2	30.04.2018	Blank size of Item No. 24 updated to 1144 mm as pe drg.
01073850100	00	4	30.09.2018	Auto Revision 31074056137/12
01073850100	00	5	12.12.2019	For Item No. 31: Material code changed from AA1011819333 to AA1041801335. For Item Nos. 54 & 55: Material code changed from AA1012808050 to HW1012808980.
01073850100	00	6	31.07.2020	For Item No 3,4,5,6: Blank size and weight updated by combining these in 80mm nesting The nesting consists of 31073850103 (2No), 21073850104/01 (2No), 21073850104/02 (2No), 31073850106 (16No)
01073850100	00	7	22.09.2020	For item no. 11: Drg no.41073850111: Plate thickness updated to HW1011819945 inplace of AA1011819236 --- <b>- UNDER CHANGE ADVICE</b>

CBOM - 01073850100

	ENGG		TTX		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	stepdk	27.01.2018	ttxakm	12.03.2018	wtxhan	06.03.2018
Checked By	stepdk	27.01.2018	ttxsso	12.03.2018	wtxskt	09.03.2018
Approved By	stedkr	12.03.2018	ttxsso	12.03.2018	bk6viv	09.03.2018



# COMBINED BILL OF MATERIAL

Printed On:01.05.2023

Printed By:

CBOM No: 01073850100 CBOM Var: 00  
Description: LP FRONT WALL WELDING DRG.

Revno: 6

Rev Date: 13.08.2020

Total weight: 14656.69

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	01073850100 00			14656.69						
1(1)	LP FRONT WALL WELDING DRG.			Y						
MF DR			N	14807.0	0306-0313-0314-0236					
1	21073850101 00	AA1011819155	AA10119	6230.0	4870.0X7740.0	1	1	7767.3	0.0	7767.3
1(1)	PLATE			Y	PL 25				To be made in parts.	
MF DR					0072-0301-0306-0301-0306					KG
2	21073850102 00	HW1011819953	AA10119	694.0	1785.0X3660.0	1	1	1615.5	0.0	1615.5
1(1)	CONE HALF			Y	PL 30					
MF DR					0072-0301-0306					KG
3	31073850103 00	AA1011819260	AA10119	260.0	2500.0X2300.0	1	1	1896.0	0.0	1896.0
1(1)	RING			Y	PL 80				2H; Nesting Blank & Weight	
MF DR					0072-0301-0306-0301-0317-0306					KG
4	21073850104 01	AA1011819260	AA10119	370.0	609.0X3300.0	1	0	0.0	0.0	0.0
1(1)	FLANGE			Y	PL 80				Wt in 01073850100 It 3	
MF DR					0072-0301-0306					KG
5	21073850104 02	AA1011819260	AA10119	370.0	609.0X3300.0	1	0	0.0	0.0	0.0
1(1)	FLANGE			Y	PL 80				Wt in 01073850100 It 3	
MF DR					0072-0301-0306					KG
6	31073850106 00	AA1011819260	AA10119	11.5	180.0X180.0	1	0	0.0	0.0	0.0
8(8)	BOSS			Y	PL 80				D180;Wt in 01073850100 It 3	
MF DR					0072-0301-0317-0306					KG
7	11073850107 00	AA1011819139	AA10119	3502.0	3825.0X7540.0	1	1	4754.36	0.0	4754.36
1(1)	PLATE			Y	PL 20				to be made in parts.	
MF DR					0072-0301-0306-0301-0306					KG
8	21073850108 00	AA1010209302	AA10109	11.2	200.0	1	2	31.53	0.0	63.06
2(2)	WELD IN LUG			Y	RND 160					
MF DR					0072-0236-0306					KG
9	41073859108 00	AA1041801335	AA10401	106.0	360.0X360.0	1	4	149.6	0.0	598.4
4(4)	WASHER			Y	PL 140				Dia 360 mm.	
MF DR					0072-0301-0317-0306					KG

ENGG

TTX

WTX

Initial

Date

Initial

Date

Initial

Date

Worked By

stepdk

27.01.2018

ttxakm

12.03.2018

wtxhan

06.03.2018

Checked By

stepdk

27.01.2018

ttxsso

12.03.2018

wtxskt

09.03.2018

Approved By

stedkr

12.03.2018

ttxsso

12.03.2018

bk6viv

09.03.2018



# COMBINED BILL OF MATERIAL

Printed On:01.05.2023

Printed By:

CBOM No: 01073850100 CBOM Var: 00  
Description: LP FRONT WALL WELDING DRG.

Revno: 6

Rev Date: 13.08.2020

Total weight: 14656.69

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	31074056137 12	W97310724011		10.7	0.0	1	4	1.0	0.0	4.0
4(4)	LOAD SHACKLE			Y						
BO DR					0074-0236					NO
11	41073850111 00	AA1011819236	AA10119	30.0	280.0X280.0	1	6	40.71	0.0	244.26
6(6)	PLATE			Y	PL 63			Dia 280		
MF DR					0072-0301-0306					KG
13	41073850113 00	AA1011819198	AA10119	29.55	295.0X550.0	1	2	48.63	0.0	97.26
2(2)	RIB			Y	PL 40					
MF DR					0072-0301-0306					KG
14	41073850114 00	AA1011819198	AA10119	55.2	372.0X580.0	1	2	71.13	0.0	142.26
2(2)	RIB			Y	PL 40					
MF DR					0072-0301-0306					KG
15	41073850115 00	AA1011819198	AA10119	29.3	288.0X590.0	1	2	56.02	0.0	112.04
2(2)	RIB			Y	PL 40					
MF DR					0072-0301-0306					KG
16	41073850116 00	AA1011819198	AA10119	46.6	327.0X580.0	1	2	62.53	0.0	125.06
2(2)	RIB			Y	PL 40					
MF DR					0072-0301-0306					KG
18	41073850118 00	HY1048655792	AA10455	52.125	720.0	1	4	0.75	0.0	3.0
4(4)	PIPE			Y	139.7X25					
MF DR					0072-0315-0306					MR
20	31073850120 00	AA1011819279	AA10119	383.0	70.0X7740.0	1	1	401.92	0.0	401.92
1(1)	PLATE			Y	PL 90					
MF DR					0072-0301-0306					KG
23	41073850123 00	AA1011819198	AA10119	14.7	219.0X273.0	1	2	19.71	0.0	39.42
2(2)	PLATE			Y	PL 40					
MF DR					0072-0301-0306					KG
24	31073850124 00	HW1041055714	AA10455	41.0	1144.0	1	1	1.2	0.0	1.2
1(1)	PIPE			Y	PI 114.3X17.5					
MF DR					0072-0315-0306					MR

ENGG

TTX

WTX

Initial

Date

Initial

Date

Initial

Date

Worked By

stepdk

27.01.2018

ttxakm

12.03.2018

wtxhan

06.03.2018

Checked By

stepdk

27.01.2018

ttxsso

12.03.2018

wtxskt

09.03.2018

Approved By

stedkr

12.03.2018

ttxsso

12.03.2018

bk6viv

09.03.2018



# COMBINED BILL OF MATERIAL

Printed On:01.05.2023

Printed By:

**CBOM No:** 01073850100 **CBOM Var:** 00  
**Description:** LP FRONT WALL WELDING DRG.

**Revno:** 6

**Rev Date:** 13.08.2020

**Total weight:** 14656.69

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
27	31073850127 00	HW1041055714	AA10455	20.2	565.0	1	2	0.593	0.0	1.186
2(2)	PIPE			Y	PI 114.3X17.5					
MF DR					0072-0315-0306					MR
28	31073850128 00	HY1048655792	AA10455	31.75	485.0	0	0	0.509	0.0	1.018
2(2)	PIPE			Y	139.7X25					
MF DR					0072-0315-0306					MR
29	31073850124 01	HW1041055714	AA10455	38.0	1076.0	1	2	1.13	0.0	2.26
2(2)	PIPE			Y	PI 114.3X17.5					
MF DR					0072-0315-0306					MR
30	31073850130 00	HY1048655792	AA10455	46.6	747.0	1	2	0.784	0.0	1.568
2(2)	PIPE			Y	139.7X25					
MF DR					0072-0315-0306					MR
31	31073850131 00	AA1041801335	AA10401	104.0	260.0X740.0	1	2	222.01	0.0	444.02
2(2)	PLATE			Y	PL 140					
MF DR					0072-0301-0317-0306					KG
32	41073850132 00	HW1041055714	AA10455	30.2	755.0	1	6	0.792	0.0	4.752
6(6)	PIPE			Y	PI 114.3X17.5					
MF DR					0072-0315-0306					MR
35	41073859126 00	AA1011819228	AA10119	2.9	80.0X80.0	1	2	3.0	0.0	6.0
2(2)	BOSS			Y	PL 56			Dia 80 mm.		
MF DR					0072-0301-0317-0306					KG
37	31073850137 00	AA1011819228	AA10119	65.9	250.0X700.0	1	2	88.8	0.0	177.6
2(2)	PLATE			Y	PL 56					
MF DR					0072-0301-0317-0306					KG
43		AA1012508307	AA10108	25.8	945.0	1	2	27.1	0.0	54.2
2(2)	L=945			Y	150X150X12					
RM DR	ST-A(FE410 WA)ANGLE				0072-0301-0306					KG
44		AA1012508307	AA10108	72.7	2663.0	1	2	76.33	0.0	152.66
2(2)	L=2663			Y	150X150X12					
RM DR	ST-A(FE410 WA)ANGLE				0072-0301-0306					KG

**ENGG**

**TTX**

**WTX**

Worked By	stepdk	27.01.2018	ttxakm	12.03.2018	wtxhan	06.03.2018
Checked By	stepdk	27.01.2018	ttxsso	12.03.2018	wtxskt	09.03.2018
Approved By	stedkr	12.03.2018	ttxsso	12.03.2018	bk6viv	09.03.2018



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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
45		AA1012508307	AA10108	29.62	1085.0	1	2	31.1	0.0	62.2
2(2)	L= 1085			Y	150X150X12					
RM DR	ST-A(FE410 WA)ANGLE				0072-0301-0306					KG
47		AA1012508307	AA10108	32.0	1170.0	1	2	33.53	0.0	67.06
2(2)	L=1170			Y	150X150X12					
RM DR	ST-A(FE410 WA)ANGLE				0072-0301-0306					KG
48		AA1012508307	AA10108	21.16	775.0	1	2	21.58	0.0	43.16
2(2)	L= 775			Y	150X150X12					
RM DR	ST-A(FE410 WA)ANGLE				0072-0301-0306					KG
49		HW1011052946	AA10152	12.4	760.0	1	8	0.8	0.0	6.4
8(8)	STIFFNER PIPE L= 760MM		TO BE CUT AT SITE	Y	PI 76.1X10					
RM DR	ST-ERW-TUBE				0072-0315-0306					MR
50		HW1011052946	AA10152	25.74	1580.0	1	2	1.7	0.0	3.4
2(2)	STIFFNER PIPE L=1580MM		TO BE CUT AT SITE	Y	PI 76.1X10					
RM DR	ST-ERW-TUBE				0072-0315-0306					MR
51		HW1011052946	AA10152	25.42	1560.0	1	2	1.63	0.0	3.26
2(2)	STIFFNER PIPE L=1560MM		TO BE CUT AT SITE	Y	PI 76.1X10					
RM DR	ST-ERW-TUBE				0072-0315-0306					MR
52		HW1011052946	AA10152	25.74	1580.0	1	2	1.7	0.0	3.4
2(2)	STIFFNER PIPE L=1580MM		TO BE CUT SITE	Y	PI 76.1X10					
RM DR	ST-ERW-TUBE				0072-0315-0306					MR
53		HW1011052946	AA10152	35.86	2200.0	1	1	2.31	0.0	2.31
1(1)	STIFFNER PIPE L= 2200MM		TO BE CUT AT SITE	Y	PI 76.1X10					
RM DR	ST-ERW-TUBE				0072-0315-0306					MR
54		HW1012808980	AA10108	23.25	1560.0	1	1	44.71	0.0	44.71
1(1)	STIFFNER L=1560MM		TO BE CUT AT SITE	Y	150 X 75					
RM DR	ST-A(FE410 WA)BEAM				0072-0301-0306					KG
55		HW1012808980	AA10108	11.7	780.0	1	1	12.2	0.0	12.2
1(1)	STIFFNER L= 780MM		TO BE CUT AT SITE	Y	150 X 75					
RM DR	ST-A(FE410 WA)BEAM				0072-0301-0306					KG

**ENGG**

**TTX**

**WTX**

	Initial	Date	Initial	Date	Initial	Date
Worked By	stepdk	27.01.2018	ttxakm	12.03.2018	wtxhan	06.03.2018
Checked By	stepdk	27.01.2018	ttxsso	12.03.2018	wtxskt	09.03.2018
Approved By	stedkr	12.03.2018	ttxsso	12.03.2018	bk6viv	09.03.2018



# COMBINED BILL OF MATERIAL

Printed On:01.05.2023

Printed By:

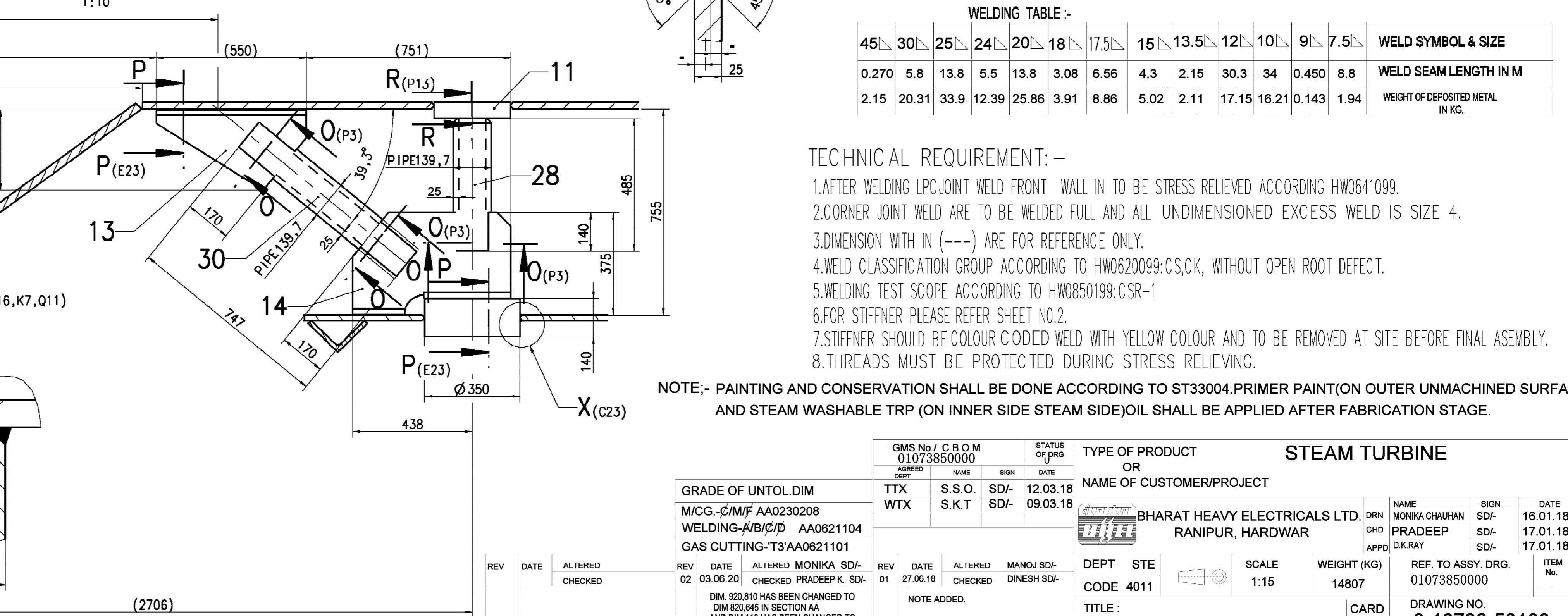
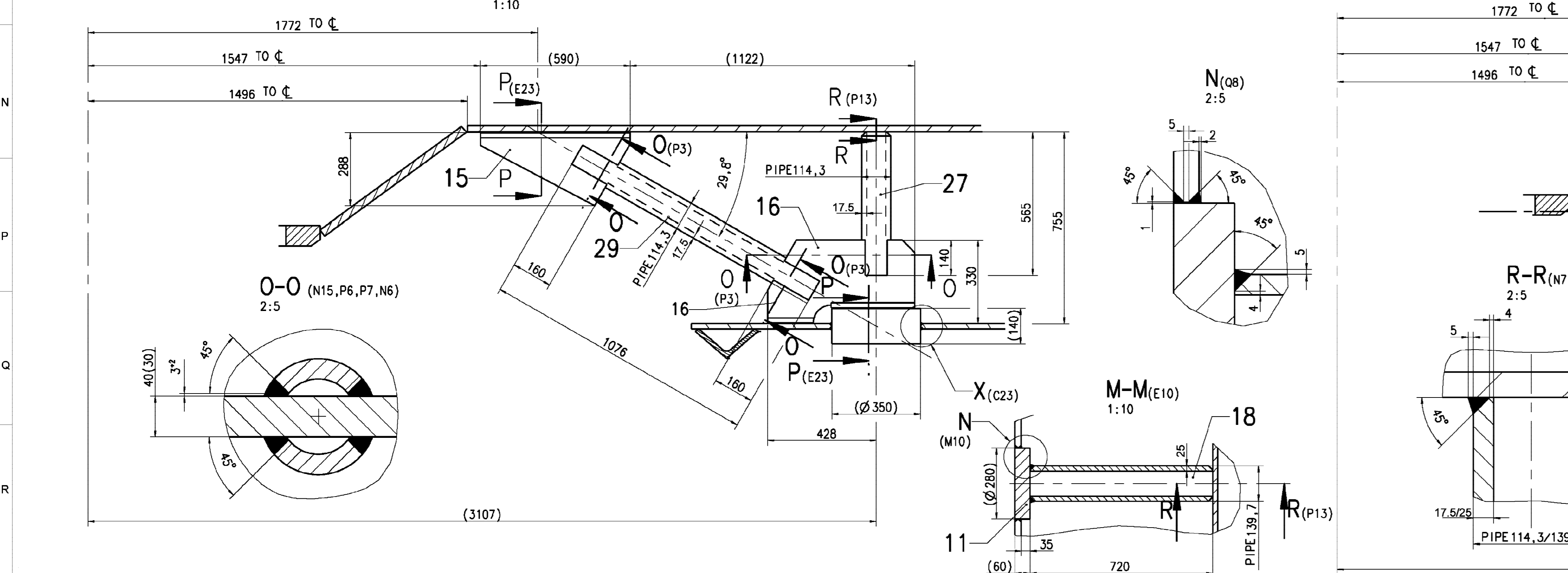
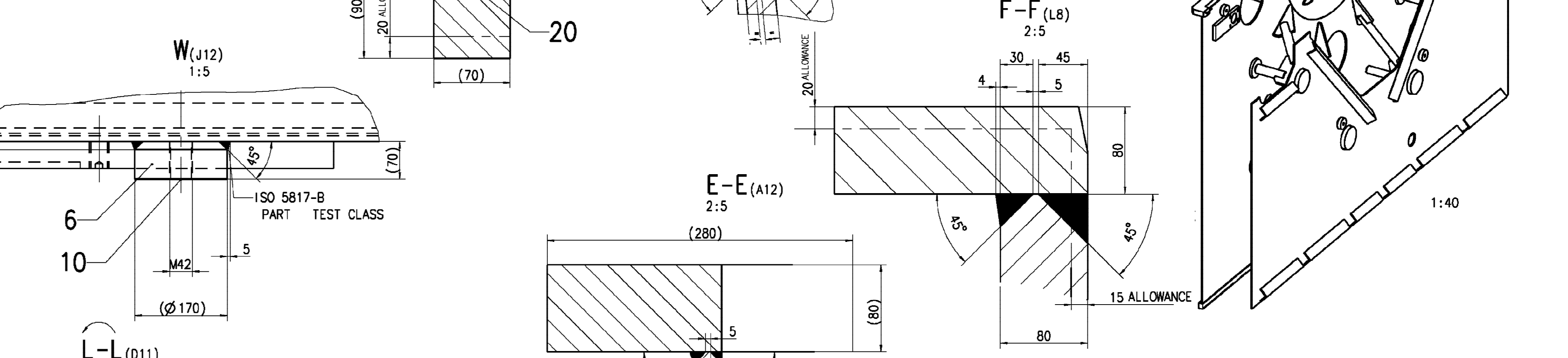
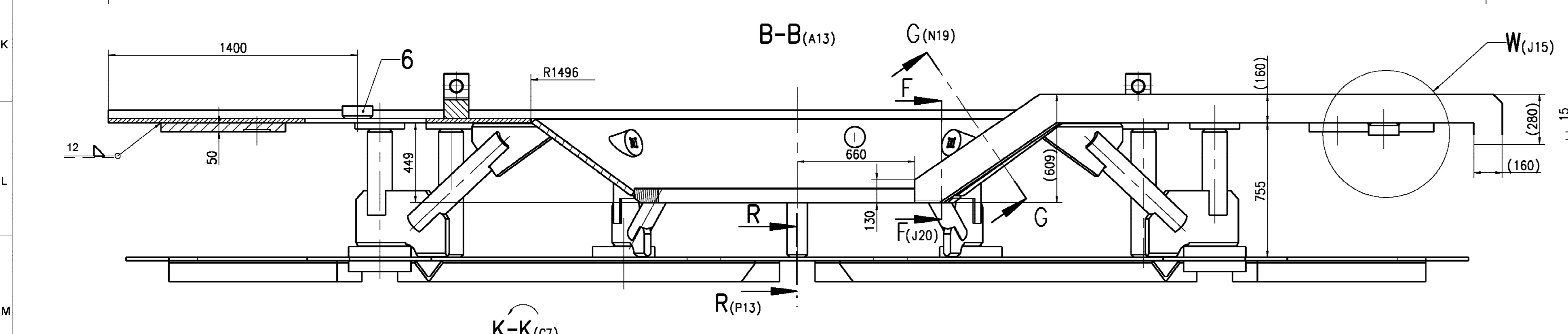
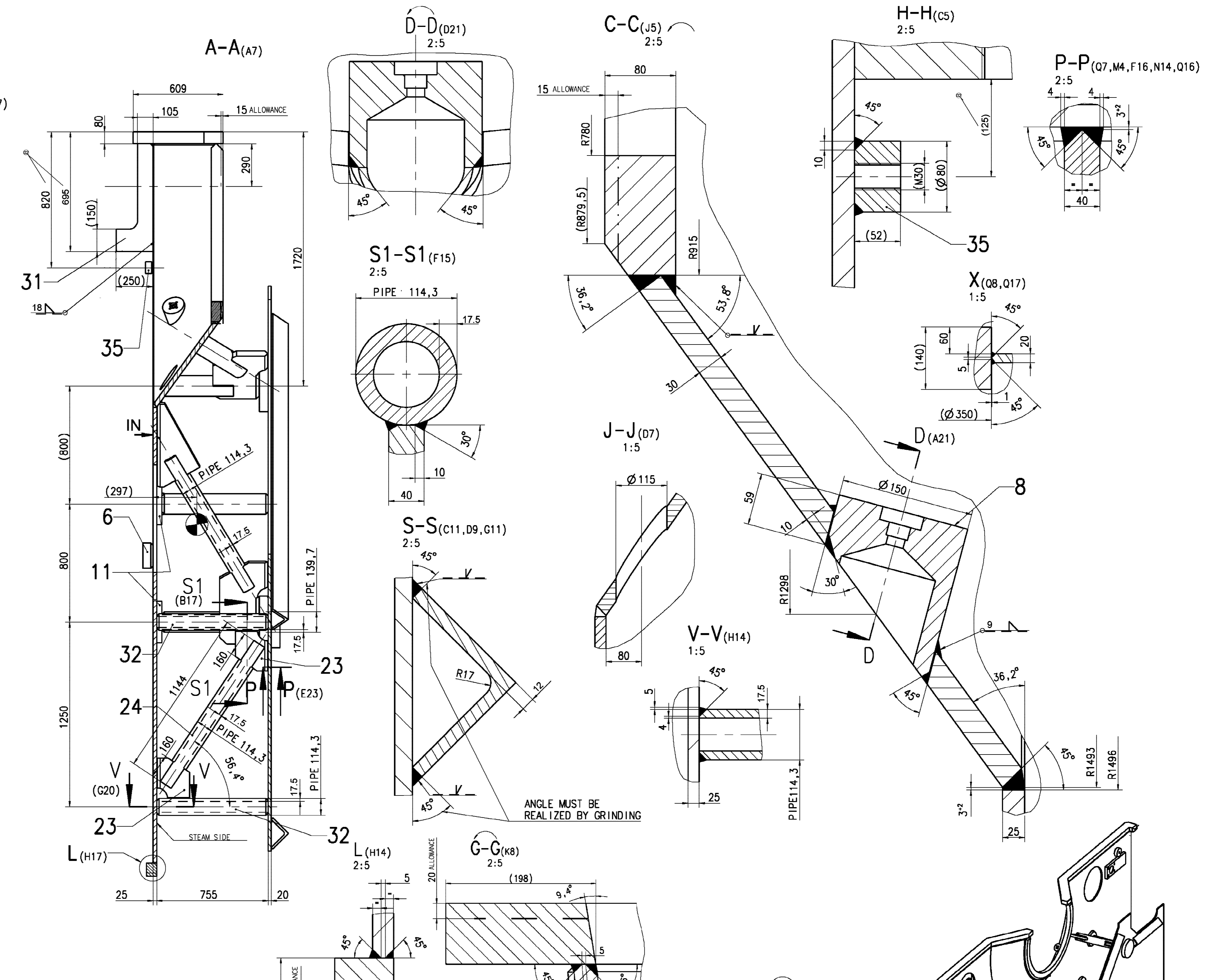
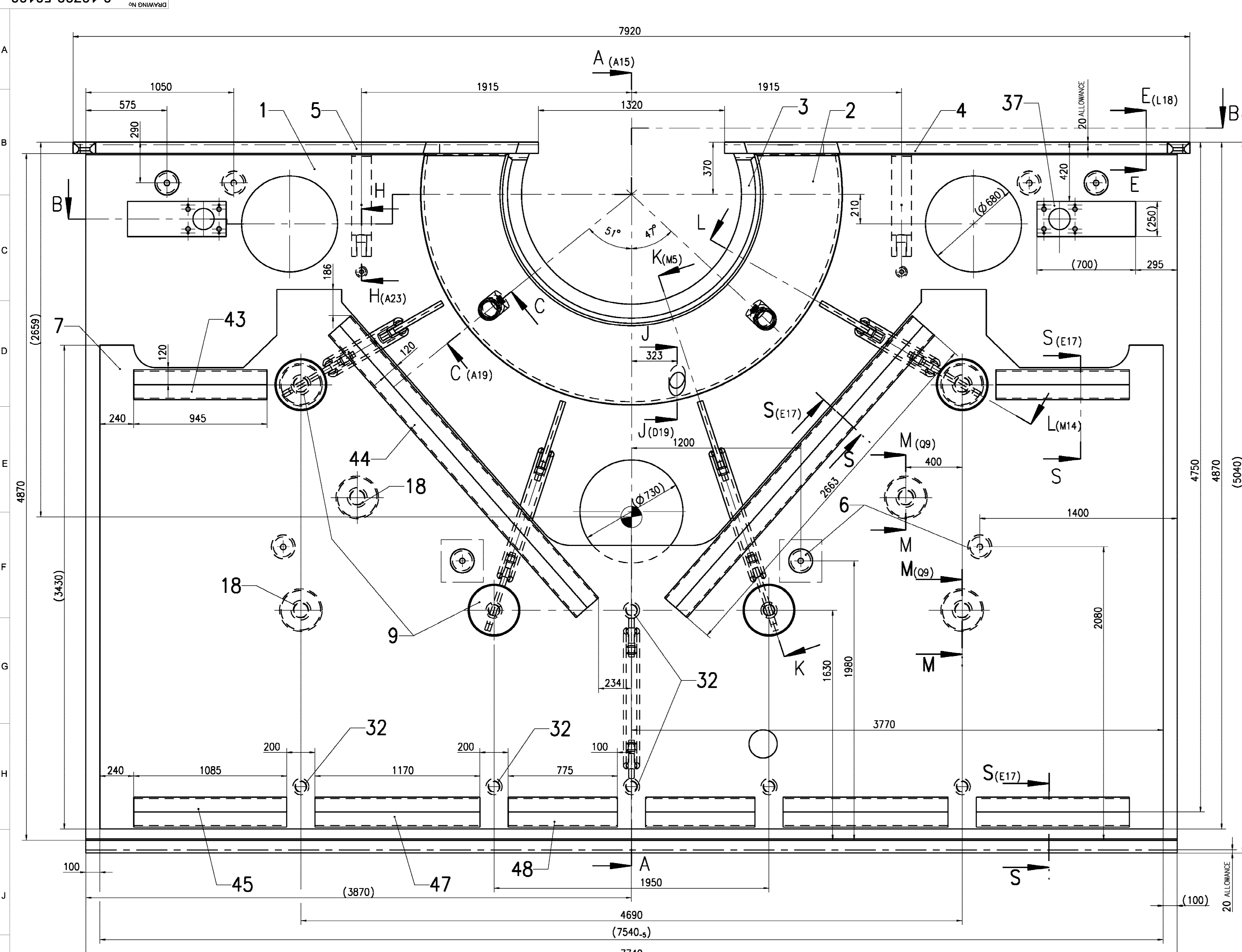
CBOM No: 01073850100    CBOM Var: 00    Revno: 6    Rev Date: 13.08.2020  
Description: LP FRONT WALL WELDING DRG.    Total weight: 14656.69

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 - 01073850100 00

	ENGG		TTX		WTX	
	Initial	Date	Initial	Date	Initial	Date
Worked By	stepdk	27.01.2018	ttxakm	12.03.2018	wtxhan	06.03.2018
Checked By	stepdk	27.01.2018	ttxsso	12.03.2018	wtxskt	09.03.2018
Approved By	stedkr	12.03.2018	ttxsso	12.03.2018	bk6viv	09.03.2018

00109-83Z01-0



WELDING TABLE -

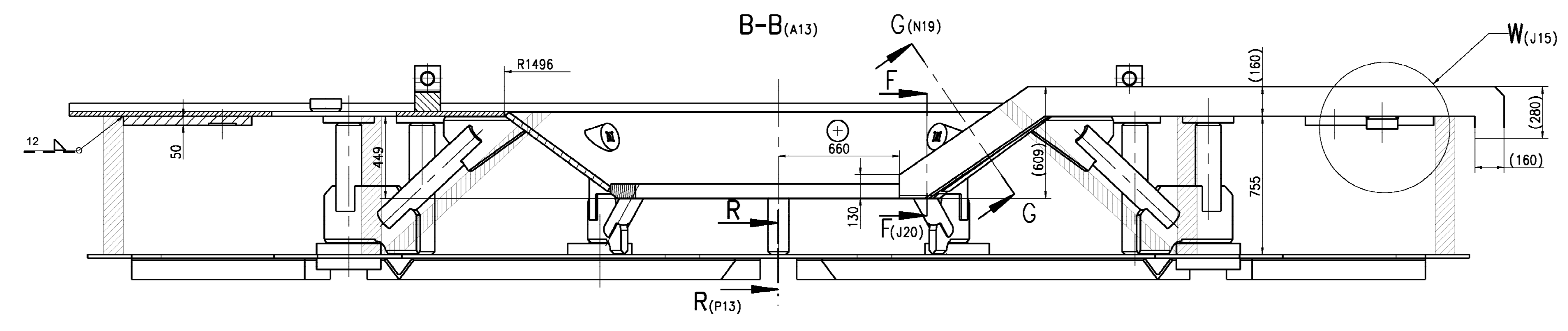
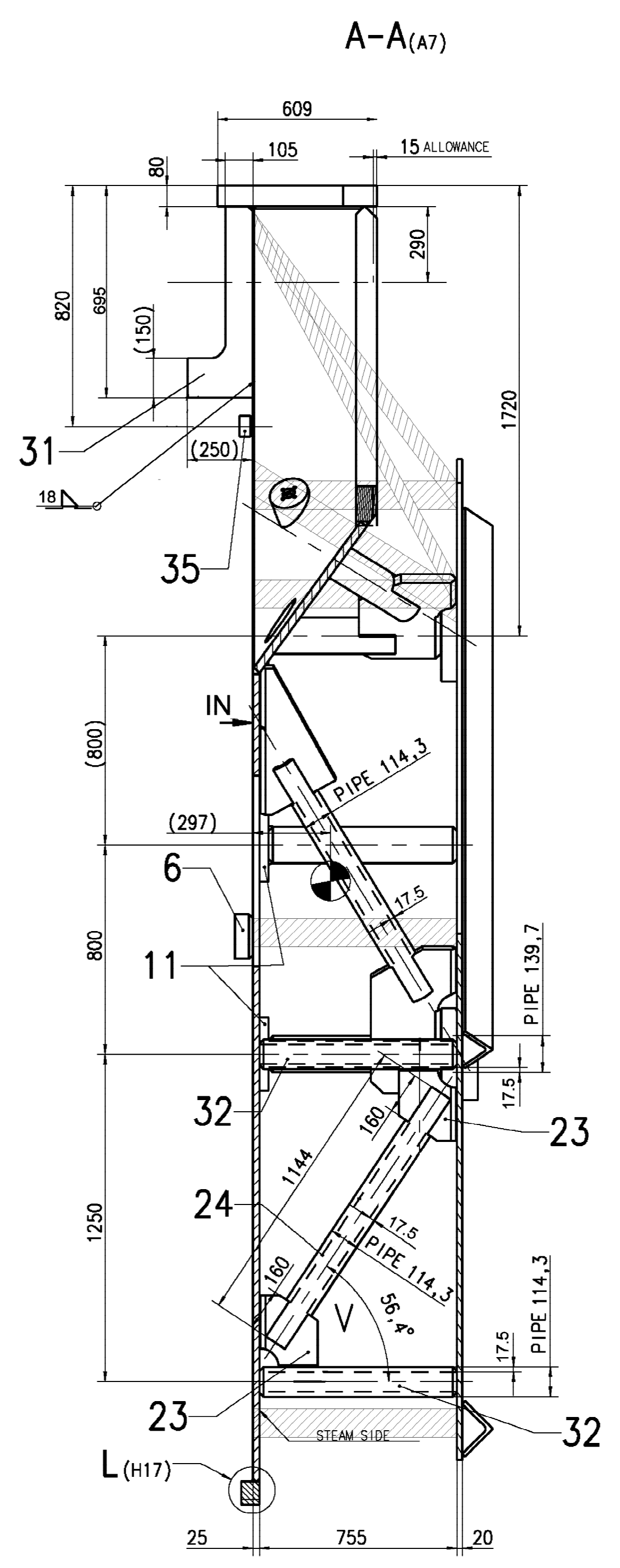
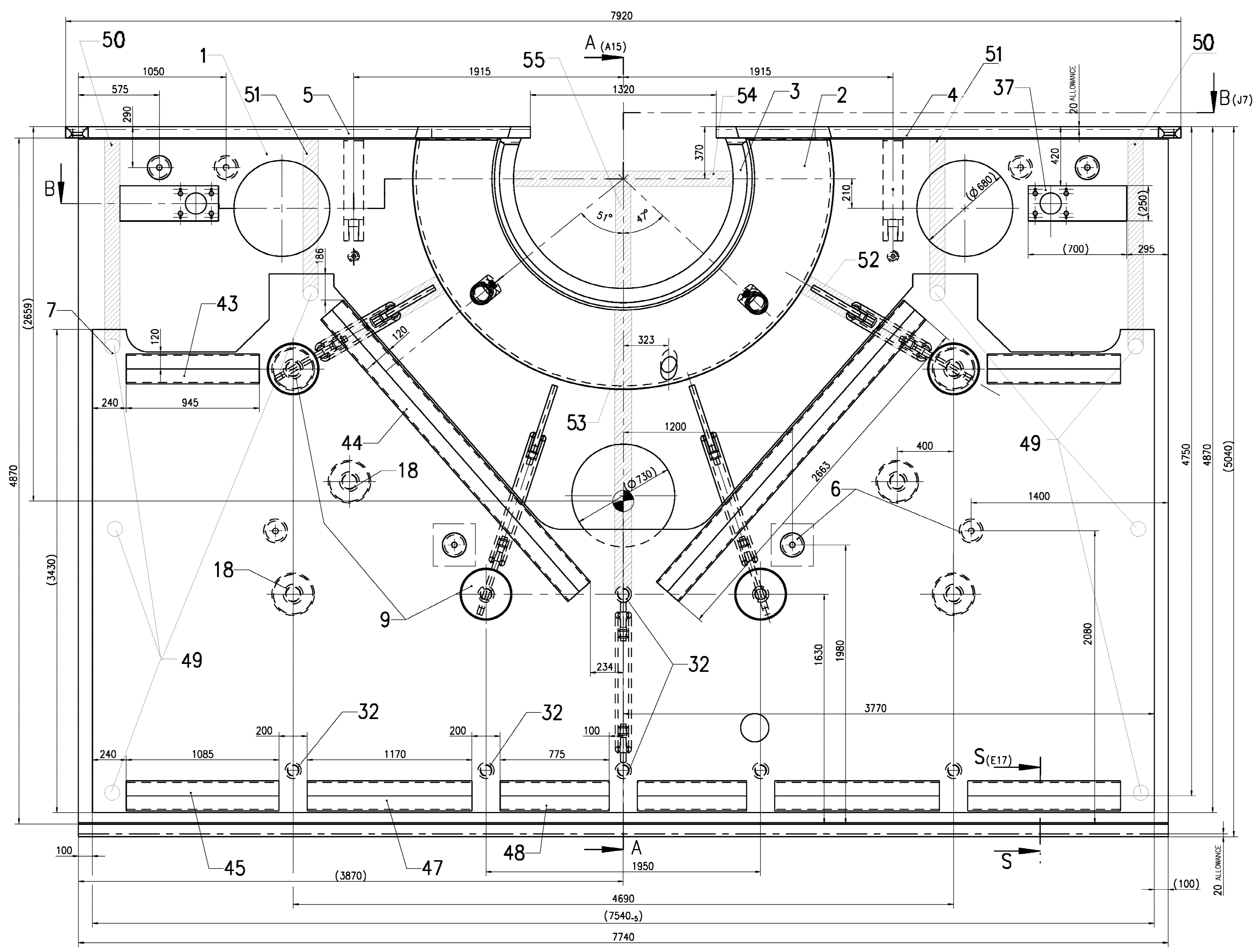
45°	30°	25°	24°	20°	18°	17.5°	15°	13.5°	12°	10°	9°	7.5°	WELD SYMBOL & SIZE
0.270	5.8	13.8	5.5	13.8	3.08	6.56	4.3	2.15	30.3	34	0.450	8.8	WELD SEAM LENGTH IN MM
2.15	20.31	33.9	12.39	25.86	3.91	8.86	5.02	2.11	17.15	16.21	0.143	1.94	WEIGHT OF DEPOSITED METAL IN KG.

- TECHNICAL REQUIREMENT:-
- AFTER WELDING JPC JOINT WELD FRONT WALL IN TO BE STRESS RELIEVED ACCORDING HW0641099.
  - CORNER JOINT WELD ARE TO BE WELDED FULL AND ALL UNDIMENSIONED EXCESS WELD IS SIZE 4.
  - DIMENSION WITH IN (---) ARE FOR REFERENCE ONLY.
  - WELD CLASSIFICATION GROUP ACCORDING TO HW0620099:CS,C,K, WITHOUT OPEN ROOT DEFECT.
  - WELDING TEST SCOPE ACCORDING TO HW050199:CSR-1
  - FOR STIFFNER PLEASE REFER SHEET NO.2.
  - STIFFNER SHOULD BE COLOUR CODED WELD WITH YELLOW COLOUR AND TO BE REMOVED AT SITE BEFORE FINAL ASSEMBLY.
  - THREADS MUST BE PROTECTED DURING STRESS RELIEVING.

NOTE:- PAINTING AND CONSERVATION SHALL BE DONE ACCORDING TO ST33004.PRIMER PAINT(ON OUTER UNMACHINED SURFACE) AND STEAM WASHABLE TRP (ON INNER SIDE STEAM SIDE)OIL SHALL BE APPLIED AFTER FABRICATION STAGE.

TRN NO  
REF DRAWING NO  
DPPPC-70056173 B  
DATE

GMS No / C B O M				STATUS				TYPE OF PRODUCT					
01073850000				01073850000				OR					
M/CG-C/M/F AA0230208				TTX S.S.O. SD/- 12.03.18				NAME OF CUSTOMER/PROJECT					
WELDING-AB/C/D AA0621104				WTX S.K.T SD/- 09.03.18				BHARAT HEAVY ELECTRICALS LTD, RANIPUR, HARDWAR					
GAS CUTTING-T3AA0621101				DM 80.818 HAS BEEN CHANGED TO DIM 80.818 IN SECTION AA AND DIM 110 HAS BEEN CHANGED TO DIM 120 IN SECTION HH AS PER CIA NO. STE-20-F0171.				AS PER CIA NO. STE-18-F0150					
REV	DATE	ALTERED	CHECKED	REV	DATE	ALTERED	CHECKED	DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO. OF ITEMS
02	03.06.20	ALTERED MONIKA SD/-	CHECKED PRADEEP SD/-	01	27.06.19	ALTERED	CHECKED	4011	14807	1:15	14807	01073850000	22/23 24
NOTE ADDED.												DRAWING NO. 0-10738-50100	
FRONT WALL WELDING DRG.												CARD CODE 7	
SHEET No.01												No. OF SHEETS 02	



TECHNICAL REQUIREMENT FOR STIFFENERS :-

- a. TECHNOLOGICAL SUPPORTS I BEAM (ITEM NO. 54,55) TO BE ASSEMBLED AND WELDED KEEPING 30mm DOWN FROM THE MACHINING FACE OF CIRCULAR FLANGE AS PER DRAWING.
- b. IT IS TO BE ENSURED THAT TECHNOLOGICAL PIPE SUPPORTS WELDING DO NOT OVERLAP ON THE WELDED SEAM OF ASSEMBLY COMPONENTS.
- c. TECHNOLOGICAL SUPPORTS TO BE USED 30mm-40mm APART FROM THE SURFACE WHERE MACHINING ALLOWANCES ARE GIVEN.

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

INVENTORY NO. REF DRAWING NO. SIGN & DATE TRN NO.

GMS No./ C.B.O.M 01-10738-50000		STATUS DATE		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	
APPROVED	NAME	DATE		STEAM TURBINE	
TTX	S.S.O.	SD/-	12.03.18	RANIPUR, HARDWAR	
WTX	S.K.T	SD/-	09.03.18	BHARAT HEAVY ELECTRICALS LTD. NAME: MONIKA CHAUHAN SIGN: DATE: 16.01.18 NO. OF: 16.01.18 WAR	
GRADE OF UNTOL DIM		M/C.G.-C/M/F AA0230208		CHD PRADEEP SD/- 17.01.18	
WELDING -A/B/C/D AA0621104		GAS CUTTING-T3/AA0621101		APPRD D.K.RAY SD/- 17.01.18	
REV	DATE	ALTERED	MANOJ SD/-	DEPT	STE
02	03.06.20	CHECKED PRADEEP K. SD/-	NO CHANGE	4011	14807
01	27.06.18	CHECKED DINESH SD/-	NO CHANGE	SCALE	WEIGHT (KG)
				1:15	14807
				REF. TO ASSY. DRG.	ITEM NO. OF ITEMS
				0-10738-50000	22/23 24
DIM. 920,890 HAS BEEN CHANGED TO DIM. 920,848 IN SECTION A-A		NO CHANGE		DRAWING NO. 0-10738-50100	
AS PER C/A NO. STE-20-F0171.		AS PER C/A NO. STE-18-F0150		CARD CODE 7	
				SHEET No. 02 No. OF SHEETS 02	



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

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### 1. GENERAL.

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

### 2. ORIGIN OF QUOTATION.

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

### 3. SUBMISSION OF TENDER.

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

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

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

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

To,

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

- b) TENDER ROOM is located at: Room No. - 415, 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

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

- c) In case of Three / Two Part Bid, technical bid containing technical offer, duly signed and un-priced copy of the Price Bid should be kept in one envelope. Price Bid containing only the price should be kept in a separate envelope. All envelopes indicating Part-1 or Part-2 or Part-3 as the case may be to be put in a bigger envelope. Please note that un-priced bid should be the exact replica of price bid but without prices.
- d) The bid / quotation must be posted before due date, keeping allowance for postal transit time. Quotations sent by any mode but not received in time will be ignored. Tender received through authorized E-mail is also acceptable. However, in time submission of tender in tender box shall be the responsibility of the bidder, sent through any mode. Documents submitted with the offer / bid shall be signed and stamped in each page by authorized representative of the bidder.
- e) Any additional documents submitted by supplier / bidder, during processing of registration application / tender or after placement of order shall not be accepted unless it is submitted with forwarding letter and duly signed and stamped.
- f) The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The cutting / overwriting in the bid / offer must be duly attested by the signatories to the bid. The list of firms banned by BHEL is available on BHEL web site [www.bhel.com](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

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

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%.

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



## BHARAT HEAVY ELECTRICALS LIMITED

HEEP-HARIDWAR, UTTARAKHAND (249403)

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

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

### 9. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY.

#### a) Where items of Purchase Order are independently usable.

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

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

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

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

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

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

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

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

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

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

### 10. PAYMENT TERMS.

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

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

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

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

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

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

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

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

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

Payment Terms	Days of Loading
After Receipt & Acceptance of material within 75 days of supply.	<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. However, in case the bank guarantee is not from BHEL consortium banks, then the bidder has to get the bank guarantee confirmed from one of the Indian branch of BHEL consortium banks and the bank charges for such confirmation will be borne by the bidder.

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

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

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

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

### 14. QUALITY REQUIREMENT.

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

### 15. VALIDITY.

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

### 16. RIGHT OF ACCEPTANCE.

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



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

### 17. TRANSIT INSURANCE.

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

### 18. RISK PURCHASE.

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

### 19. FORCE MAJEURE CLAUSE.

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

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

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



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

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

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

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

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

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

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

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

All Drawing and Technical Documents relating to the product or it's manufacture submitted by one party to the other, prior or

subsequent to the formation of contract, shall remain property of the submitting party. Drawing, technical documents or other technical information received by one party, shall not without the consent of the other party, be used for any other purpose than that, for which they were provided. Such technical information shall not without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party. Patterns supplied by BHEL will remain BHEL's property which shall be returned by the bidder on demand to BHEL. Bidder shall in no way share or use such intellectual property of BHEL to promote his own business with others or to gain a commercial advantage. BHEL reserves the right to claim damages from the bidder, or take appropriate action as deemed fit against the bidder, for any infringement of the provisions contained herein as available under law or equity.

### **21. SETTLEMENT OF DISPUTES / ARBITRATION.**

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

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

### **22. WHARFAGE / DEMURRAGE RESPONSIBILITY.**

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

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

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



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

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

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

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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,



## 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)

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



## 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)

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.

## Approved Vendor list

### For Items

HW1011819953	AA10119	PL 30 mm
AA1011819155	AA10119	PL 25 mm
AA1011819139	AA10119	PL 20 mm

### Vendor List

#### SL024 PLATE-MS/BQ

02851 SHAH BROTHERS ISPAT PVT. LTD. I0007021  
06244 ARCELORMITTAL NIPPON STEEL I0002265  
08166 STEEL AUTHORITY OF INDIA LTD I0000443  
41307 JINDAL STEEL & POWER LTD. I0002230  
41575 WELSPUN CORP LTD I0000006  
70089 SUNLION PIPING ENGINEERING CO. F001742  
72167 SALZGITTER MANNESMANN INTERNAT F001559  
77007 DILLINGER INTERNATIONAL F000390  
78004 STEEL FORCE ASIA NV-BEIGIUM F002684  
78021 NLMK PLATES SALES SA F001330  
90016 BURWILL RESOURCES LTD. F001060  
91021 DAEWOO INTERNATIONAL CORPORATI F000355  
96026 SIJ ACRONI D.O.O. F001657

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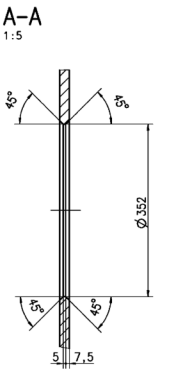
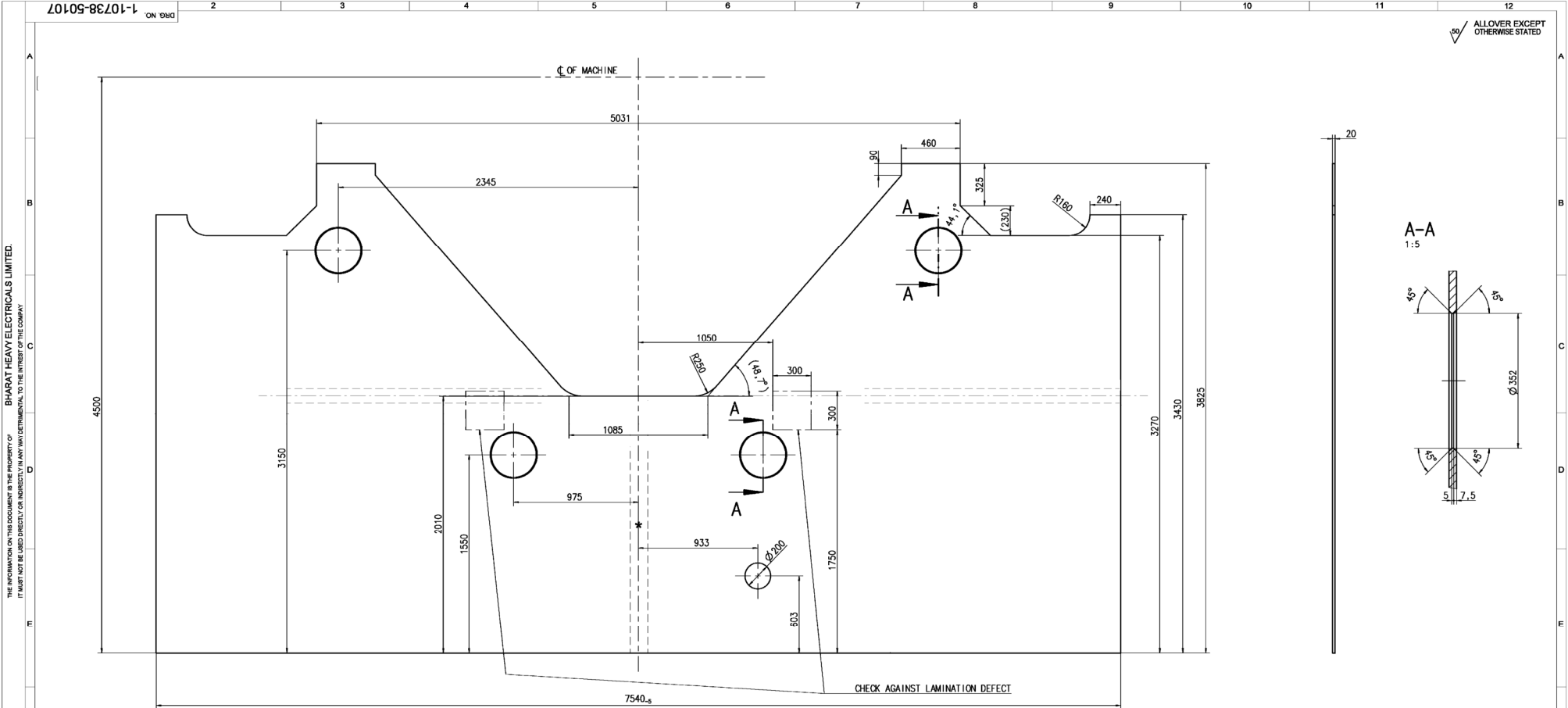
### For Item

AA1011819058	AA10119	PL 8 mm
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### Vendor List

#### SL024 PLATE-MS/BQ

02851 SHAH BROTHERS ISPAT PVT. LTD. I0007021  
06244 ARCELORMITTAL NIPPON STEEL I0002265  
08166 STEEL AUTHORITY OF INDIA LTD I0000443  
41307 JINDAL STEEL & POWER LTD. I0002230  
70089 SUNLION PIPING ENGINEERING CO. F001742  
72167 SALZGITTER MANNESMANN INTERNAT F001559  
77007 DILLINGER INTERNATIONAL F000390  
78004 STEEL FORCE ASIA NV-BEIGIUM F002684  
78021 NLMK PLATES SALES SA F001330  
90016 BURWILL RESOURCES LTD. F001060  
91021 DAEWOO INTERNATIONAL CORPORATI F000355  
96026 SIJ ACRONI D.O.O. F001657



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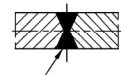
DRAWING NO. 1-10738-50107  
REV. NO. 01  
DATE 17.01.2018

**TECHNICAL REQUIREMENT**

1. DEPENDING ON SEMI FINISHED PART THE NUMBER OF LONGITUDINAL WELD SEAMS SHALL BE MINIMIZED.
2. IN ACCORDANCE TO MAIN DRAWING OF DESIGN GROUP INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.
3. IF REQUIRED PLATE CAN BE MADE IN PARTS AT THE PLACE MARKED \* AS PER DETAIL-I
4. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 BK, FULL PENETRATION WELD AND WITHOUT OPEN ROOT DEFECT.
5. WELDING TEST SCOPE ACCORDING TO HW0850199:CSR-1
6. IDENTIFICATION ACCORDING TO HW0400397

DIVIDED IN PARTS IF REQUIRED, ADDITIONAL LONGITUDINAL WELD SEAMS SHALL BE MADE AS FULL PENETRATION WELDS. PERFORMANCE DEPENDING ON WELD PROCEDURE OF SUPPLIER.

DEFINITION : FULL PENETRATION WELD

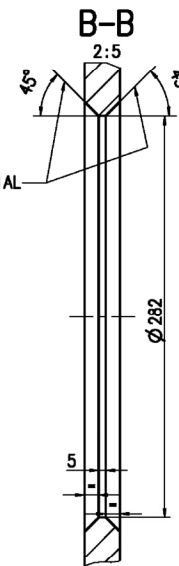
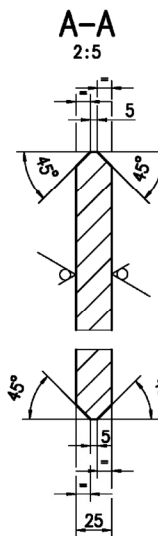
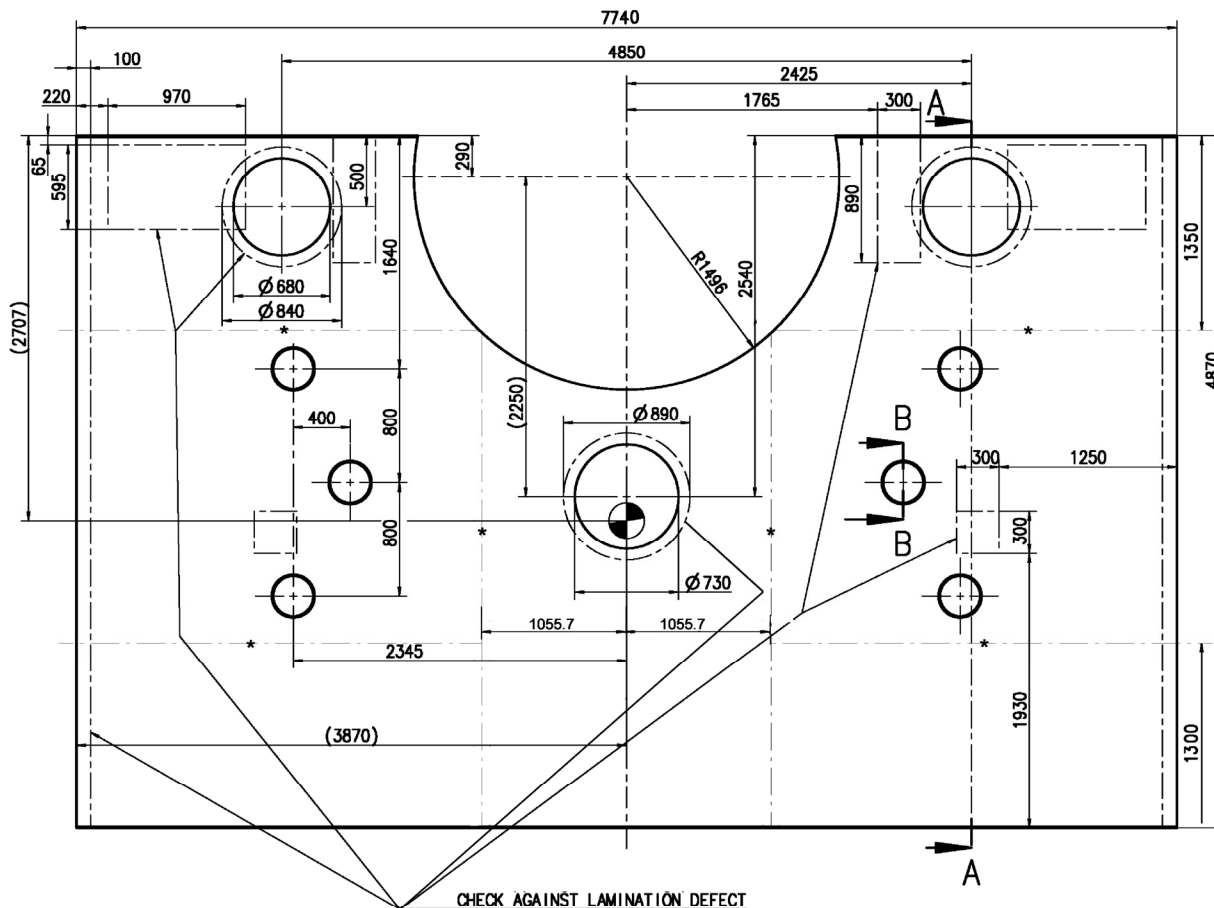


WELD EDGE PREPARATION ACC. TO ISO 9692-1/ISO 9692-2

**DETAIL I**

GMS No./ C.B.O.M. - NO. 0 10738 50100		STATUS OF PROJ. SDA: 09.03.18		TYPE OF PRODUCT <b>STEAM TURBINE</b>	
GRADE OF UNTOLD DIM MCG-C/M/F AAD230208		WELDING-AB/C/D // AA0621104		NAME OF CUSTOMER/PROJECT BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR	
GAS CUTTING-T3AA0621101		REV. NO. 01		NAME: MOHAK CHAUHAN SDA: 17.01.2018	
REV. DATE ALTERED CHECKED		REV. DATE ALTERED CHECKED		NO. OF SHEETS 01	
DEPT STE CODE 4011		SCALE 1:15		WEIGHT (KG) 3502	
TITLE: <b>PLATE</b>		REF. TO ASSY. DRG. 0 10738 50100		ITEM NO. 7	
DRAWING NO. <b>1-10738-50107</b>		CARD CODE 7		NO. OF ITEMS 75.77	
SHEET No. 01		22.23.24		No. OF SHEETS 01	

101738-50101-2  
DRAWING No.



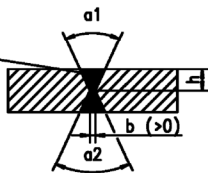
✓ ALL OVER EXCEPT OTHERWISE STATED

CHECK AGAINST LAMINATION DEFECT

**TECHNICAL REQUIREMENT**

1. DEPENDING ON SEMI-FINISHED PART THE NUMBER OF LONGITUDINAL WELD SEAMS SHALL BE MINIMIZED!
2. IN ACCORDANCE TO MAIN DRAWING OF DESIGN GROUP INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED!
3. IF REQUIRED PLATE CAN BE MADE IN PART AT THE PLACE MARKED \* AS PER DETAIL-I.
4. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 BK, FULL PENETRATION WELD AND WITHOUT OPEN ROOT DEFECT.
5. WELDING TEST SCOPE ACCORDING HW0850199, CSR-1.
6. IDENTIFICATION AS PER HW0400397 .

WELD EDGE PREPARATION ACCORDING TO:  
ISO 9692-1/9696-2



REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
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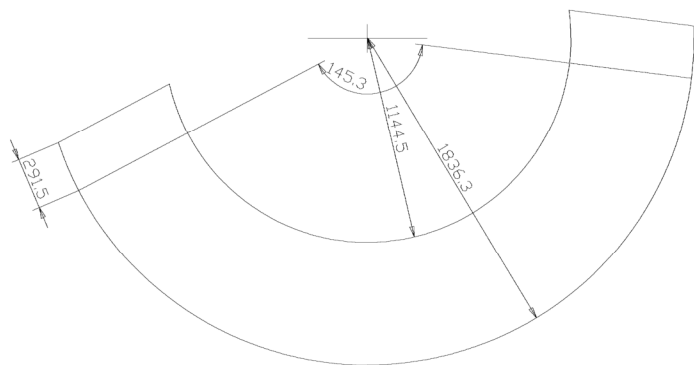
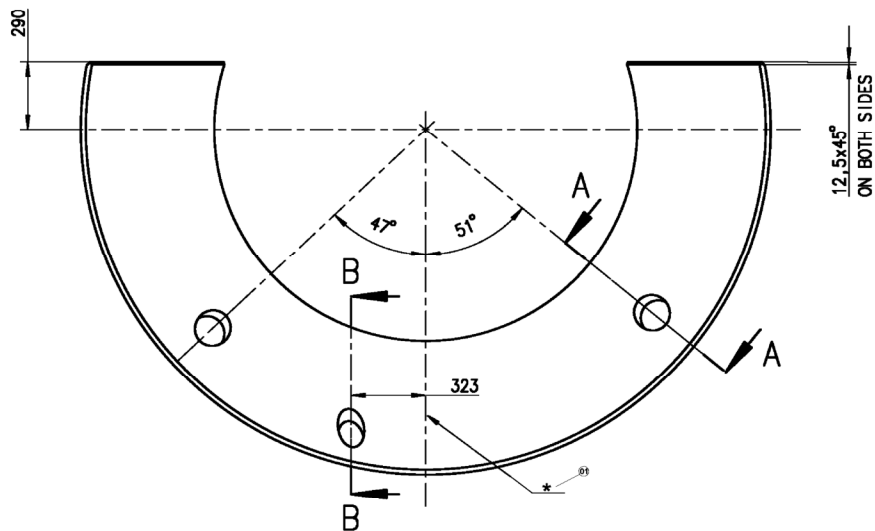
GMS No./ CBDM No. 0 10738 50100		STATUS OF DRG	
AGREED	NAME	SIGN	DATE
WTX	S.K.T	SD/-	09.03.18
GRADE OF UNTOL.DIM			
M/CG-E/M/F/AA0230208			
WELDING-A/B/E/DA0621104			
GAS CUTTING-T3'AA0621101			
REV	DATE	ALTERED	MONIKA SD/-
02	15.11.18	CHECKED	PRADEEP SD/-
REV	DATE	ALTERED	MONIKA SD/-
01	21.05.2018	CHECKED	PRADEEP K. SD/-
DIM 1240 TO CHANGED DIM 1055.7.			
AS PER CIA NO. STE-18-F0317.			
* TO SHOWN IN DRG.			
AS PER CIA NO. STE-18-F0124.			

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		STEAM TURBINE			
DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.
4011		1:25	6230	0 10738 50100	1
TITLE		CARD CODE	DRAWING NO.		
PLATE		-	2-10738-50101		
			SHEET No.01		No. OF SHEETS 01

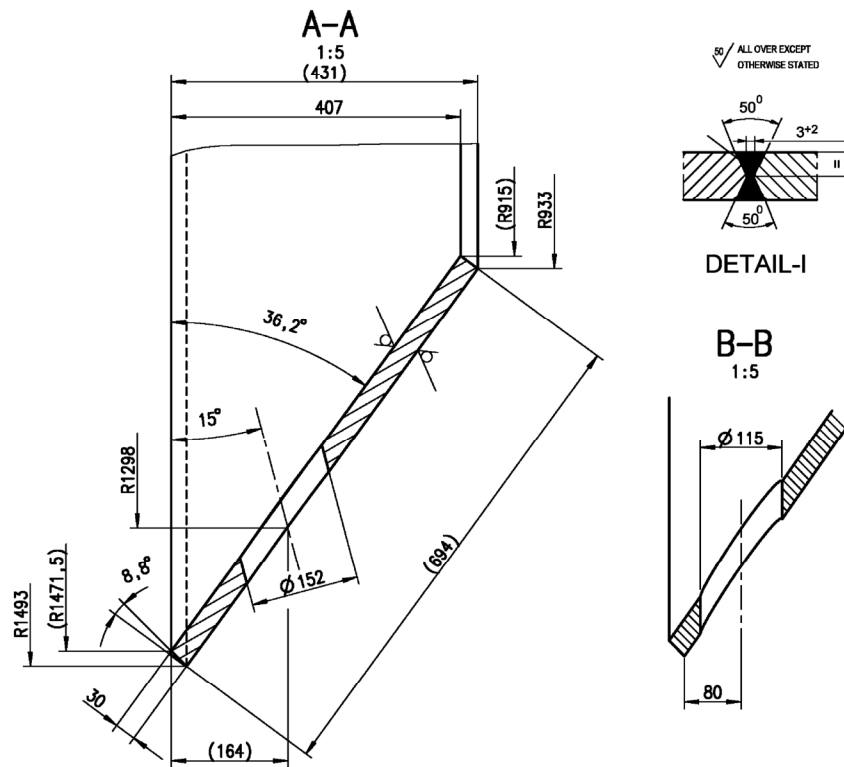
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2-10738-50102

DRAWING No.



DEVELOPMENT OF CONE HALF



50° ALL OVER EXCEPT OTHERWISE STATED

DETAIL-I

B-B  
1:5

TECHNICAL REQUIREMENTS:-

1. IF REQUIRED PLATE CAN BE MADE IN PARTS AT THE PLACE MARKED \* AS PER DETAIL-I.
2. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 BK, FULL PENETRATION WELD AND WITHOUT OPEN ROOT DEFECT.
3. WELDING TEST SCOPE ACCORDING TO HW0850199, CSR-1.
4. DIMENSIONS WITH IN ( ) ARE FOR REFERENCE ONLY.
5. IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE MARKED WITH IN.
6. DEPENDING ON SEMI FURNISHED PARTS, THE NUMBER OF LONGITUDINAL WELD SEAMS SHALL BE MINIMIZED.

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Inventory No. 8  
Sheet & Date  
2025-06-27  
A

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED

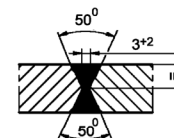
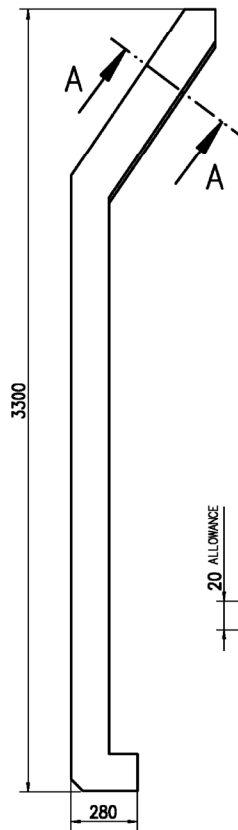
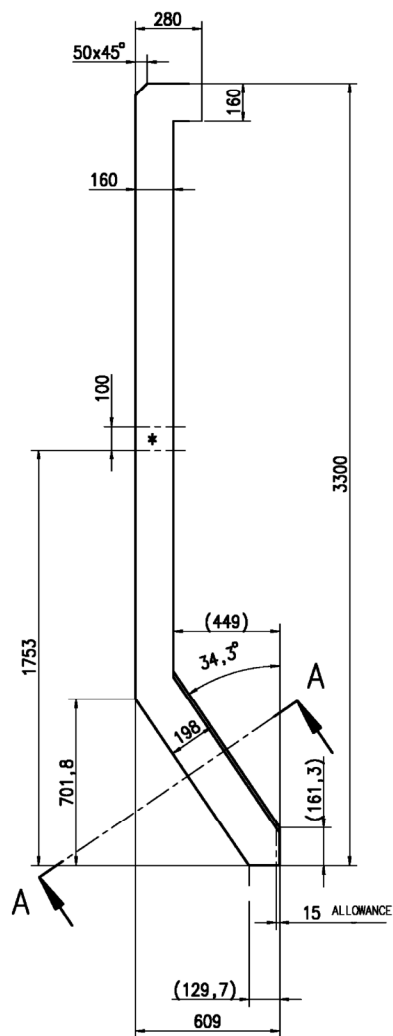
GRADE OF UNTOL.DIM				GMS No./ CBDM No.		STATUS OF DRG	
M/CG-C/M/F/AA0230208				0 10738 50100		DRG	
WELDING-A/B/E/DAA0621104				AGREED	NAME	SIGN	DATE
GAS CUTTING-T3'AA0621101				WTX	S.K.T	SDI	09.03.18

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		STEAM TURBINE					
DEPT STE		SCALE		WEIGHT (KG)		REF. TO ASSY. DRG.	
CODE 4011		1:15		694		0 10738 50100	
TITLE		CARD CODE		DRAWING NO.		ITEM No.	
CONE HALF		-		2-10738-50102		22 23 24	
				SHEET No.01		No. OF SHEETS01	

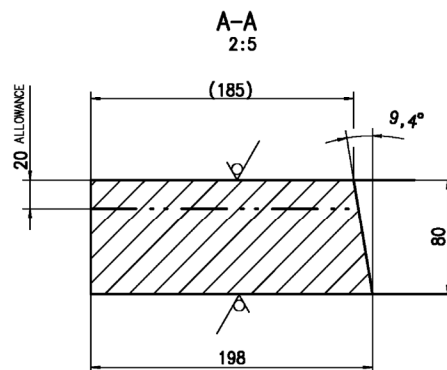
50/ ALL OVER EXCEPT OTHERWISE STATED

TYPE 1 / VAR 01

TYPE 2 / VAR 02



DETAIL-I



TECHNICAL REQUIREMENTS:-

1. IF REQUIRED PLATE CAN BE MADE IN PARTS AT THE PLACE MARKED \* AS PER DETAIL-I.
2. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 BK, FULL PENETRATION WELD AND WITHOUT OPEN ROOT DEFECT.
3. WELDING TEST SCOPE ACCORDING TO HW0850199,CSR-1.
4. IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE MARKED WITH IN.

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Inventory No. 8  
Date 7  
REV DATE ALTERED CHECKED  
7  
6  
5  
4  
3

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED
8			7			6			5			4		

GRADE OF UNTOL.DIM		GMS No./ CBDM No.		STATUS OF DRG	
M/CG-E/M/F/AA0230208		0 10738 50100		DRG	
WELDING-A/B/E/BAA0621104		WTX S.K.T		SD/- 09.03.18	
GAS CUTTING-T3'AA0621101					

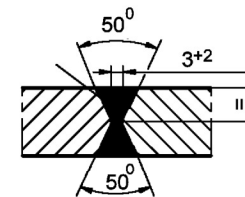
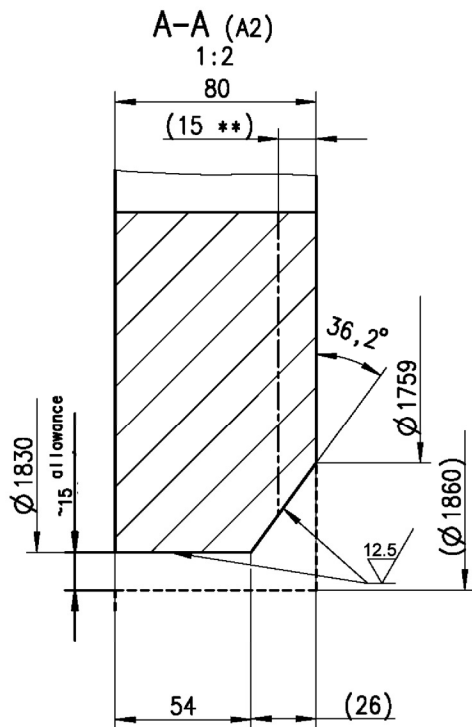
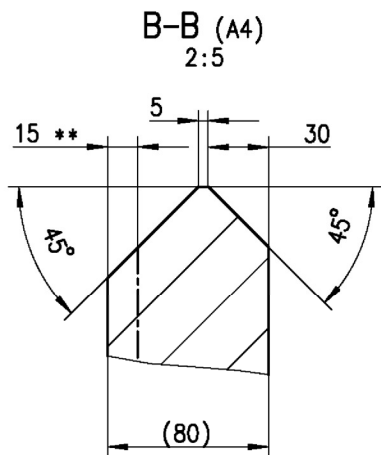
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		STEAM TURBINE			
DEPT STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.
CODE 4011		1:15	370	0 10738 50100	4.5
TITLE		CARD CODE	DRAWING NO.		IND. OF SHEETS
FLANGE		-	2-10738-50104		23 24
			SHEET No.01		No. OF SHEETS01



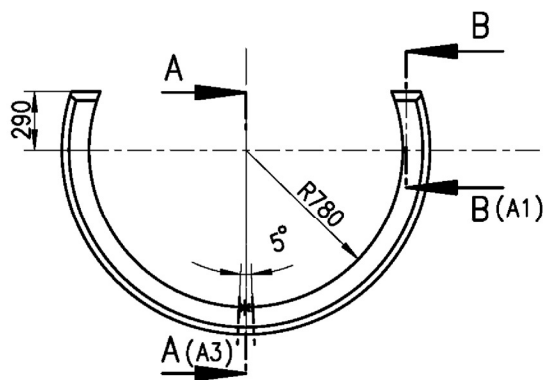
3-10738-50103

DRAWING No.

50 ✓ ALL OVER EXCEPT OTHERWISE STATED



DETAIL-I



**TECHNICAL REQUIREMENTS:-**

1. IF REQUIRED PLATE CAN BE MADE IN PARTS AT THE PLACE MARKED \* AS PER DETAIL-I.
2. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 BK, FULL PENETRATION WELD AND WITHOUT OPEN ROOT DEFECT.
3. WELDING TEST SCOPE ACCORDING TO HW0850199,CSR-1.
4. IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE MARKED WITH IN.
5. DIMENSIONS WITH IN ( ) ARE FOR REFERENCE ONLY.

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TIN NO.

Ref Drawing No-  
DPPPG-700/2340  
A-00030-125050/083 A

Sign & Date

Inventory No.

C B O M		STATUS OF DRG	
0 10738 50100		U	
AGREED DEPT	NAME	SIGN	DATE
WTX	S.K.T	SD/-	09.03.18

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT  
**STEAM TURBINE**

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

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

DRN	NAME	SIGN	DATE	NO. OF VAR
CHD	MONIKA	-SD/-	16.01.2018	73 74
APPD	PRADEEP	-SD/-	17.01.2018	75 76
	D.K.RAY	-SD/-	17.01.2018	77 78

REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
		CHECKED			CHECKED			CHECKED

DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011	1:25	260	0 10738 50100	3	75 77

TITLE:	<b>RING</b>	CARD CODE	DRAWING NO.
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			22 23 24
		SHEET No. 1	No. OF SHEETS 1

SIZE A3

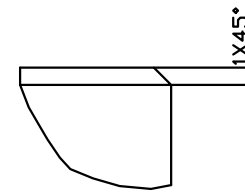
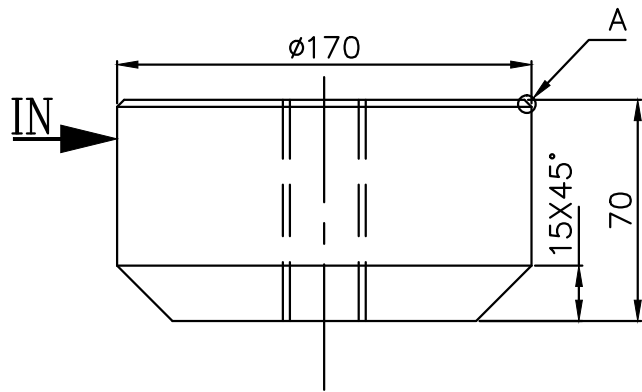
FIRST ANGLE PROJECTION

( ALL DIMENSIONS ARE IN mm )

FORM DG 38(B)

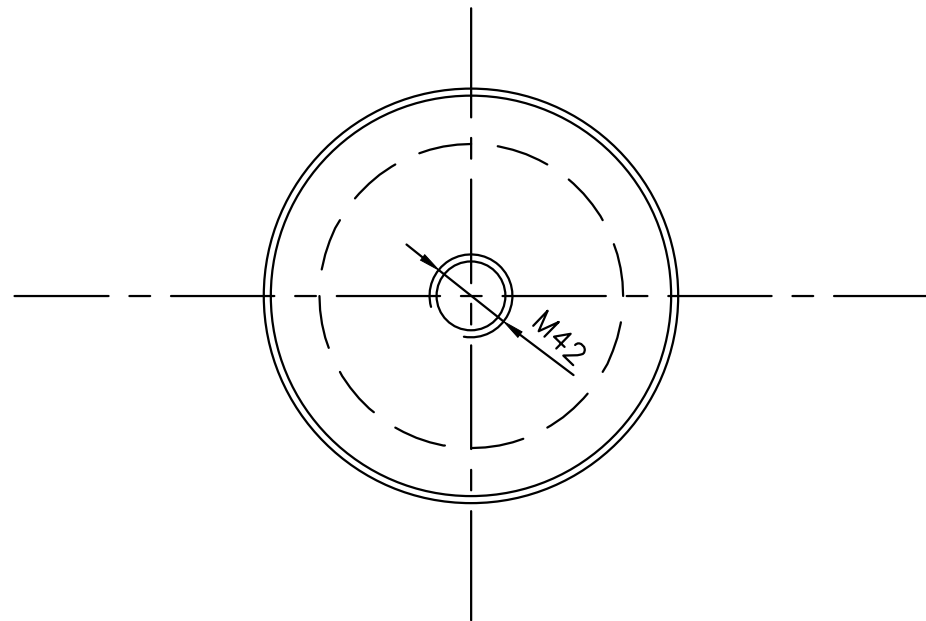
DRAWING No. 3-10738-50106

12.5/ ALL OVER EXCEPT OTHERWISE STATED



10:1

DETAIL-A



IDENTIFICATION ACCORDING TO HW0400397.

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DSSTG-0000103  
Ref. Drawing No>

Sign & Date

Inventory No

GRADE OF UNTOL. DIM  
M/CG.- AA0230208 m  
WELDING CLASS 'B' OF AA0621104  
GAS CUTTING TABLE 3 OF AA0621101

AGREED DEPT	NAME	SIGN	DATE
WTX	SKG	SD/-	09.03.18
TTX	SKT	SD/-	12.03.18

CMS No./ C B O M STATUS OF DRG  
0 10738 50000 U

TYPE OF PRODUCT STEAM TURBINE  
OR  
NAME OF CUSTOMER/PROJECT

DRN	NAME	SIGN	DATE	NO. OF VAR
	MONIKA	Sd/-	16.01.18	---
CHD	PRADEEP	Sd/-	17.01.18	---
APPD	D.K.RAY	SD/-	17.01.18	73 74

REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED	DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
		CHECKED			CHECKED			CHECKED	4011		1:1	11.5	0-10738-50100	06	75 77

TITLE : BOSS

DEPT STE SCALE 1:1 WEIGHT (KG) 11.5 REF. TO ASSY. DRG. 0-10738-50100 ITEM No. 06 NO. OF ITEMS 75 77

CARD CODE 7 DRAWING NO. 3-10738-50106 22 23 24

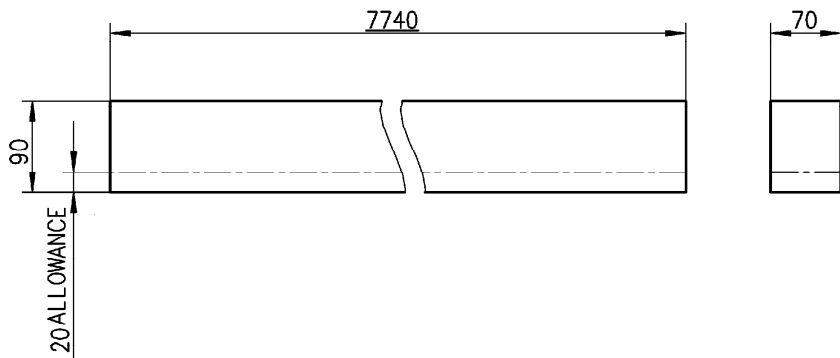
SHEET No. 1 No. OF SHEETS 1

SIZE A3

3-10738-50120

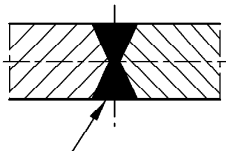
DRAWING No

50 / ALL OVER EXCEPT OTHERWISE STATED



DIVIDED IN PARTS IF REQUIRED, ADDITIONAL LONGITUDINAL WELD SEAMS SHALL BE MADE AS FULL PENETRATION WELDS, PERFORMANCE DEPENDING ON WELD PROCEDURE OF SUPPLIER.

DEFINITION : FULL PENETRATION WELD



WELD EDGE PREPARATION ACC. TO ISO 9692-1/ISO 9692-2

TECHNICAL REQUIREMENTS:-

1. DEPENDING ON SEMI-FINISHED PARTS THE NUMBER OF LONGITUDINAL WELD SEAMS SHALL BE MINIMIZED.
2. IN ACCORDANCE TO MAIN DRAWING OF DESIGN GROUP INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.
3. IDENTIFICATION ACCORDING TO HW0400397 .
4. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 BK, FULL PENETRATION WELD AND WITHOUT OPEN ROOT DEFECT.
5. WELDING TEST SCOPE ACCORDING TO HW0850199,CSR-1.


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TIN NO.

Ref Drawing No: DSPPG-0052912 a 11846-221221/020

Sign & Date

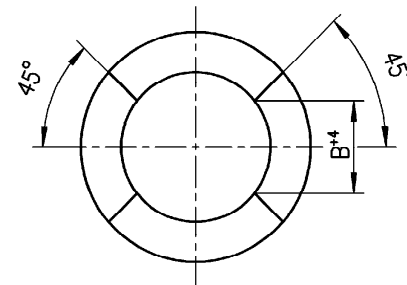
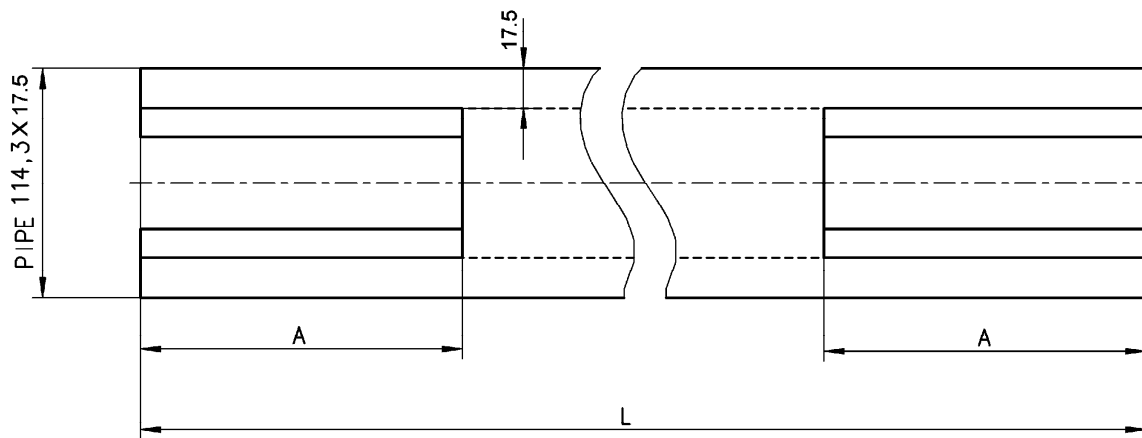
Inventory No.

CBOM 0 10738 50100		STATUS OF DRG U		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		STEAM TURBINE					
AGREED DEPT	NAME	SIGN	DATE	BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR		DRN	NAME	SIGN	DATE	NO. OF VAR	
WTX	S.K.T	SD/-	09.03.18			CHD	MONIKA	-SD/-	16.01.2018	73 74	
						APPD	PRADEEP	-SD/-	17.01.2018		
GRADE OF UNTOLD DIM				DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM No.	NO. OF ITEMS
M/CG.-C/M/F AA0230208				CODE	4011	2:5	383	0 10738 50100		20	75 77
WELDING-A/B/C/D // AA0621104				TITLE:		CARD CODE		DRAWING NO.			
GAS CUTTING-T3'AA0621101				PLATE		7		3-10738-50120		22 23 24	
REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED	SHEET No. 1		No. OF SHEETS 1
		CHECKED			CHECKED			CHECKED			

3-10738-50124

DRAWING No

50/ ALL OVER EXCEPT OTHERWISE STATED



VAR.	L	A	B	WT. KG.
00	1144	160	46	41
01	1076	160	46	38

TECHNICAL REQUIREMENTS:-

1-IDENTIFICATION ACCORDING TO HW0400397

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TIN NO.

Ref Drawing No:-  
DSPG-0061772 a  
11846-221221/024

Sign & Date

Inventory No.

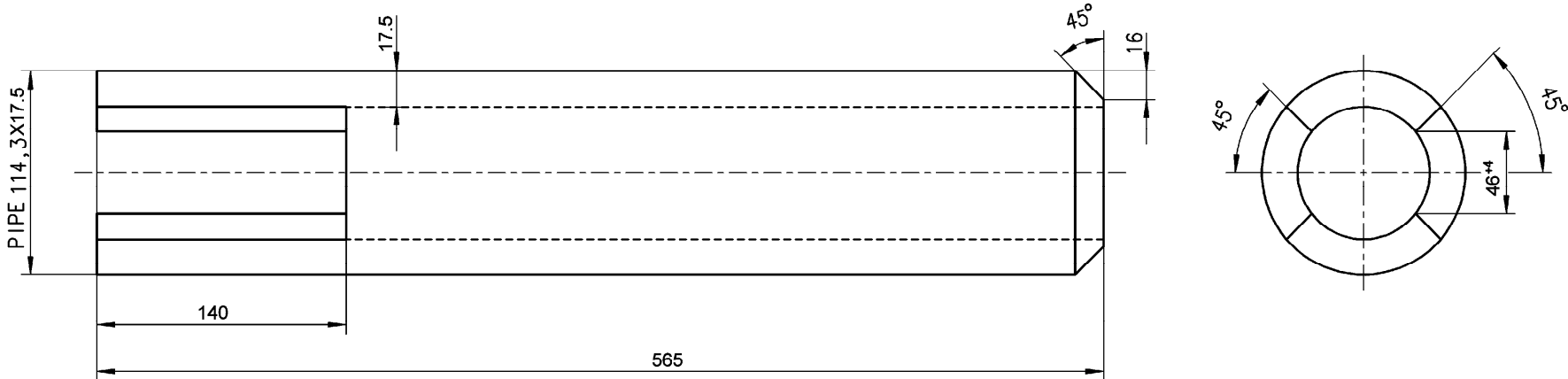
CBOM 0 10738 50100		STATUS OF DRG U		TYPE OF PRODUCT STEAM TURBINE	
AGREED DEPT WTX		NAME S.K.T		OR	
SIGN SD/-		DATE 09.03.18		NAME OF CUSTOMER/PROJECT	
GRADE OF UNTOLD DIM		DRN		NAME	
M/CG.-C/M/F AA0230208		CHD		SIGN	
WELDING-A/B/C/D // AA0621104		APPD		DATE	
GAS CUTTING-T3'AA0621101		Bharat Heavy Electricals Ltd. RANIPUR, HARDWAR		MONIKA -SD/- 16.01.2018	
REV		DATE		PRADEEP -SD/- 17.01.2018	
ALTERED		CHECKED		D.K.RAY -SD/- 17.01.2018	
REV		DATE		REF. TO ASSY. DRG. 0 10738 50100	
ALTERED		CHECKED		ITEM No. 24	
REV		DATE		NO. OF ITEMS 73 74	
ALTERED		CHECKED		75 77	
DEPT		STE		SCALE	
CODE		4011		2:5	
TITLE		PIPE		WEIGHT (KG) SEE TABLE	
CARD CODE		7		DRAWING NO. 3-10738-50124	
SHEET No. 1		No. OF SHEETS 1		22 23 24	

SIZE A3

3-10738-50127

DRAWING No

50 / ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

1-IDENTIFICATION ACCORDING TO HW0400397

TIN NO.

Ref Drawing No:  
DSPPG-0061773 a  
11846-221221/027

Sign & Date

Inventory No.

CBOM 0 10738 50100		STATUS OF DRG U		TYPE OF PRODUCT OR		STEAM TURBINE				
AGREED DEPT	NAME	SIGN	DATE	NAME OF CUSTOMER/PROJECT						
WTX	S.K.T	SD/-	09.03.18	BHARAT HEAVY ELECTRICALS LTD.		DRN	NAME	SIGN	DATE	NO. OF VAR
GRADE OF UNTOLD DIM				RANIPUR, HARDWAR		CHD	MONIKA	-SD/-	16.01.2018	73 74
M/CG.-C/M/F AA0230208						APPD	PRADEEP	-SD/-	17.01.2018	75 77
WELDING-A/B/C/D // AA0621104						D.K.RAY		-SD/-	17.01.2018	
GAS CUTTING-T3'AA0621101						REF. TO ASSY. DRG.		ITEM No.	NO. OF ITEMS	
REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED	0 10738 50100	27
		CHECKED			CHECKED			CHECKED		
DEPT		STE	SCALE		WEIGHT (KG)					
CODE		4011	2:5		20.2					
TITLE :		PIPE		CARD CODE		DRAWING NO.				
				7		3-10738-50127				
				SHEET No. 1		No. OF SHEETS 1				

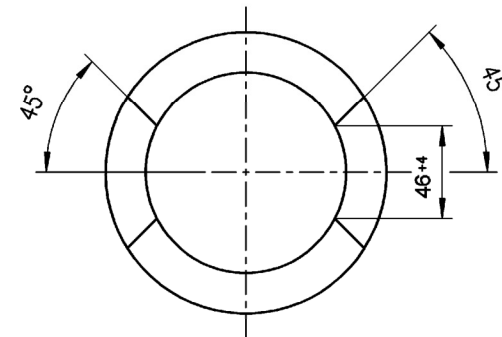
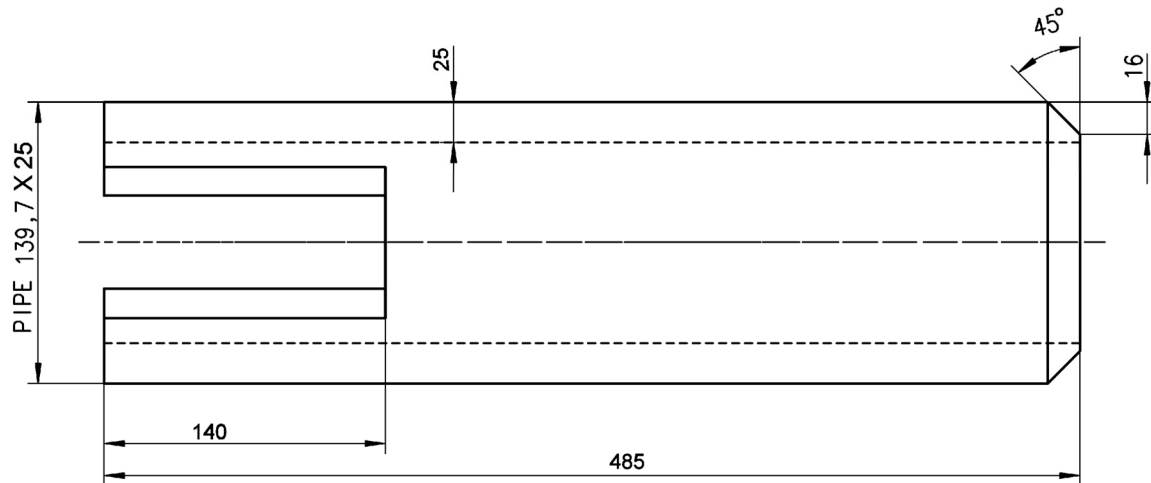
SIZE A3

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3-10738-50128

DRAWING No

50 / ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

1-IDENTIFICATION ACCORDING TO HW0400397 .

Inventory No. Sign & Date Ref Drawing No: DSPPG-0061779 a 11846-221221/028 TIN NO.

C B O M 0 10738 50100		STATUS OF DRG U		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		STEAM TURBINE					
AGREED DEPT	NAME	SIGN	DATE	BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR							
WTX	S.K.T	SD/-	09.03.18	DRN	NAME	SIGN	DATE	NO. OF VAR			
GRADE OF UNTOLD DIM				CHD	MONIKA	-SD/-	16.01.2018	—			
M/CG.-C/M/F AA0230208				APPD	PRADEEP	-SD/-	17.01.2018	73 74			
WELDING-A/B/C/D / / AA0621104				D.K.RAY				-SD/-	17.01.2018	75 77	
GAS CUTTING-T3'AA0621101				DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS	
REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
		CHECKED			CHECKED			CHECKED			CHECKED
				CODE	4011	2.5	31.75	0 10738 50100	28		
				TITLE : PIPE			CARD CODE	DRAWING NO. 3-10738-50128			
							SHEET No. 1		No. OF SHEETS 1		

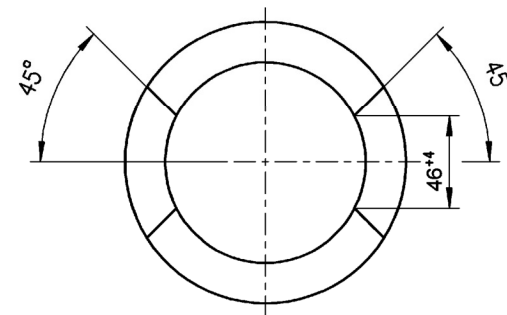
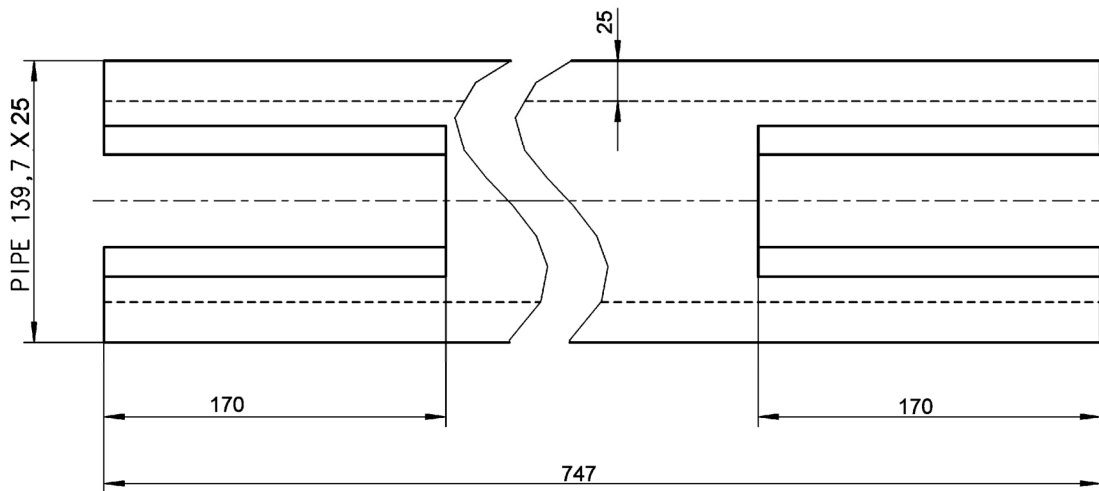
SIZE A3

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3-10738-50130

DRAWING No

50 ✓ ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

1-IDENTIFICATION ACCORDING TO HW0400397 .

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TIN NO.

Ref Drawing No-  
DSPPG-0061781 a  
11846-221221/030

Sign & Date

Inventory No.

C B O M		STATUS OF DRG	
0 10738 50100		U	
AGREED DEPT	NAME	SIGN	DATE
WTX	S.K.T	SD/-	09.03.18

TYPE OF PRODUCT **STEAM TURBINE**  
OR  
NAME OF CUSTOMER/PROJECT

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

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

DRN	NAME	SIGN	DATE	NO. OF VAR
CHD	MONIKA	-SD/-	16.01.2018	—
APPD	PRADEEP	-SD/-	17.01.2018	73 74
	D.K.RAY	-SD/-	17.01.2018	75 77

REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
		CHECKED			CHECKED			CHECKED

DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011	2:5	46.6	0 10738 50100	30	75 77

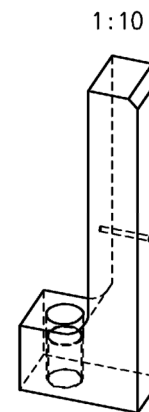
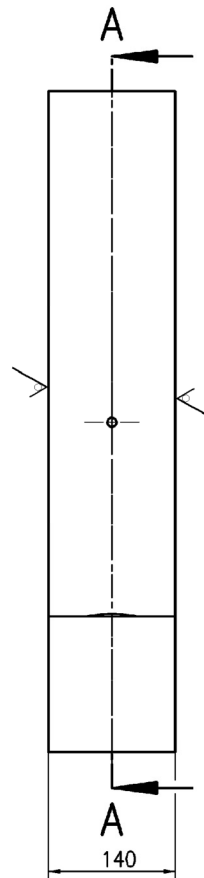
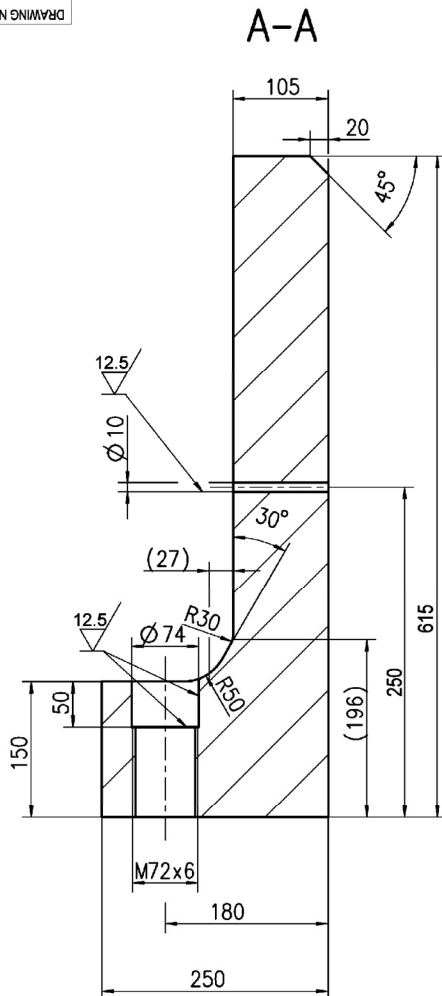
TITLE :	CARD CODE	DRAWING NO.
PIPE	7	3-10738-50130
		22 23 24
SHEET No. 1	No. OF SHEETS 1	

SIZE A3

3-10738-50131

DRAWING No

50 ✓ ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

1. IDENTIFICATION ACCORDING TO HW0400397 .

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TIN NO.

Ref Drawing No-  
DSPPG-0052907  
11846-221221/031 A

Sign & Date

Inventory No.

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

C B O M 0 10738 50100		STATUS OF DRG U	
AGREED DEPT	NAME	SIGN	DATE
WTX	S.K.T	SD/-	09.03.18

TYPE OF PRODUCT **STEAM TURBINE**  
OR  
NAME OF CUSTOMER/PROJECT

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

	NAME	SIGN	DATE	NO. OF VAR
DRN	MONIKA	-SD/-	16.01.2018	—
CHD	PRADEEP	-SD/-	17.01.2018	—
APPD	D.K.RAY	-SD/-	17.01.2018	73 74

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED
01	03.08.20	CHECKED			

REV	DATE	ALTERED CHECKED	MONIKA SD/- PRADEEP K. SD/-
01	03.08.20	CHECKED	

DEPT	STE	SCALE	WEIGHT (KG)
CODE	4011	2:5	104

REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
0 10738 50100	31	75 77

DIM.730,365 HAS BEEN CHANGED TO  
DIM 615,250 IN SECTION AA  
AS PER C/A NO. STE-20-F0171.

TITLE : **PLATE**

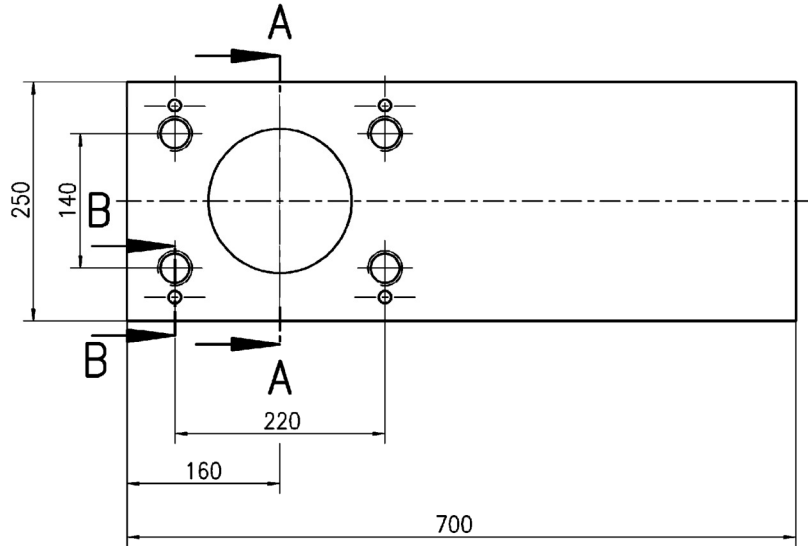
CARD  
CODE  
DRAWING NO.  
**3-10738-50131**

SHEET No. 1 No. OF SHEETS 1

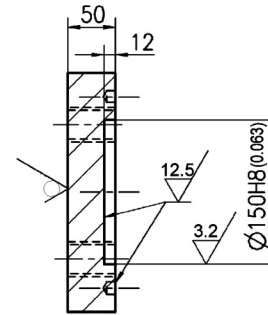
SIZE A3

3-10738-50137

DRAWING No



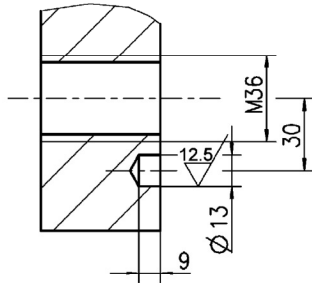
A-A



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B-B

1:2



TECHNICAL REQUIREMENTS:-

1. IDENTIFICATION ACCORDING TO HW0400397 .

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TIN NO.

Ref Drawing No-  
DSPPG-0052908  
11846-221/221/037 A

Sign & Date

Inventory No.

C B O M		STATUS OF DRG	
0 10738 50100		U	
AGREED DEPT	NAME	SIGN	DATE
WTX	S.K.T	SD/-	09.03.18


TYPE OF PRODUCT **STEAM TURBINE**  
OR  
NAME OF CUSTOMER/PROJECT

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

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

DRN	NAME	SIGN	DATE	NO. OF VAR 73 74
CHD	MONIKA	-SD/-	16.01.2018	
APPD	PRADEEP	-SD/-	17.01.2018	
	D.K.RAY	-SD/-	17.01.2018	75 77

REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
		CHECKED			CHECKED			CHECKED

DEPT STE  SCALE WEIGHT (KG)  
CODE 4011 2:5 65,9

REF. TO ASSY. DRG. ITEM NO. NO. OF ITEMS  
0 10738 50100 37 75 77

TITLE : **PLATE**

CARD CODE DRAWING NO.  
7 **3-10738-50137** 22 23 24

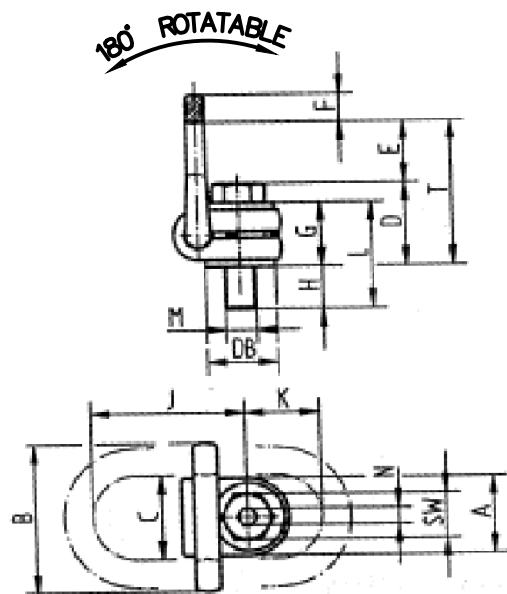
SHEET No. 1 No. OF SHEETS 1

SIZE A3

3-10740-56137  
DRAWING No.

Type	WLL t	A	B	C	D	E	F	G	H	J	K	L	M	N	A/F	R	T	DB	Weight Kg	Torque	Ref.No.	VARIANT	MAT.CODE
VLBG 1t M12	1	32	54	34	37	38	10	29	21	75	45	50	12	8	19	32	75	26	0.33	100 Nm	8500795	00	W97310740122
VLBG 1.5t M16	1.5	33	56	36	46	39	13.5	36	24	87	47	60	16	10	24	38	85	30	0.55	150 Nm	8500806	01	W97310740130
VLBG 2.5t M20	2.5	50	82	54	55	55	16.5	43	32	113	64	75	20	12	30	48	110	45	1.3	250 Nm	8500802	02	W97310740149
VLBG 4t M24	4	50	82	54	58	66	18	43	37	130	78	80	24	14	36	48	125	45	1.5	400 Nm	8500804	03	W97310740157
VLBG 5t M30	5	60	103	65	80	67	22.5	61	49	151	80	110	30	17	46	67	147	60	3.3	500 Nm	8500813	04	W97310740165
VLBG 8t M36	8	77	122	82	100	97	26.5	77	63	205	110	140	36	22	55	87	197	70	6.2	800 Nm	7983553	05	W97310740173
VLBG 10t M42	10	77	122	82	103	94	26.5	77	73	205	110	150	42	24	65	87	197	70	6.7	1000 Nm	7983554	06	W97310740181
VLBG 20t M48	20	95	156	100	117	105	36	87	73	230	130	160	48	27	75	100	222	95	11.6	2000 Nm	7982967	07	W97310740190
VLBG 0.3t M8	0.3	30	54	34	35	40	10	29	11	75	45	40	8	5	13	32	75	24	0.3	30 Nm	8500791	08	W97312087019
VLBG 0.63t M10	0.63	30	54	34	36	39	10	29	16	75	45	45	10	6	17	32	75	24	0.32	60 Nm	8500793	09	W97312087027
VLBG 4t M27	4	60	103	65	78	69	22.5	61	39	151	80	100	27	-	41	67	147	60	3.1	400 Nm	7983658	10	
VLBG 7t M36	7	60	103	65	72	74	22.5	55	52	151	80	107	36	-	55	67	146	60	3.4	700 Nm	8500817	11	
VLBG 15t M42	15	95	156	100	113	109	36	87	63	230	130	150	42	24	65	100	222	85	11.2	1500 Nm	7982966	12	W97310724011

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SUPPLIER : M/S RUD-KETTENFABRIK,  
GERMANY  
OR  
EQUIVALENT

TECHNICAL REQUIREMENTS:-

- ITEM SHOULD SUCCESSFULLY WITHSTAND TESTING LOAD OF 1.5 TIMES WILL OR MORE.
- CERTIFICATE OF COMPLIANCE TO BE PROVIDED.

KUN 693.10  
Ref.Drawing No>

Sign & Date

Inventory No

C B O M No.  
01074056000

STATUS OF DRG

TYPE OF PRODUCT STEAM TURBINE

OR  
NAME OF CUSTOMER/PROJECT

GRADE OF UNTOL. DIM  
M/CG.- AA0230208 m  
WELDING-CLASS 'B' OF ISO13920:1996  
GAS CUTTING-TABLE 3 OF AA0621101

AGREED DEPT	NAME	SIGN	DATE
TTX	S.K.GOND	-sd-	

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

DRN	NAME	SIGN	DATE	NO. OF VAR
	RITESH K	sd/-	02.06.10	--
CHD	RITESH K	sd/-	05.06.10	--
APPD	A SHAH	sd/-	08.06.10	73 74

REV	DATE	ALTERED	MANOJ	REV	DATE	ALTERED	MANOJ	REV	DATE	ALTERED	MANOJ
03	06.02.17	CHECKED	RITESH SD/-	02	14.01.12	CHECKED	PRADEEP	01	19.11.11	CHECKED	PRADEEP

DEPT STE	SCALE 1:10	WEIGHT (KG) SEE TABLE	REF. TO ASSY. DRG. 0-10740-56100	ITEM No. 06	NO. OF ITEMS 75 77
CODE 4011					

T.R. TO BEADED.  
C/A NO.STE-17-F0042.

IN TABLE W CODE W97310724011 ADDED.  
C/A NO. STE-12-F0004.

TABLE MODIFIED.  
C/A NO. STE-11-F0321.

TITLE :  
**LOAD SHACKLES**

CARD CODE 7

DRAWING NO.  
**3-10740-56137**

SHEET No. 1 No. OF SHEETS 1

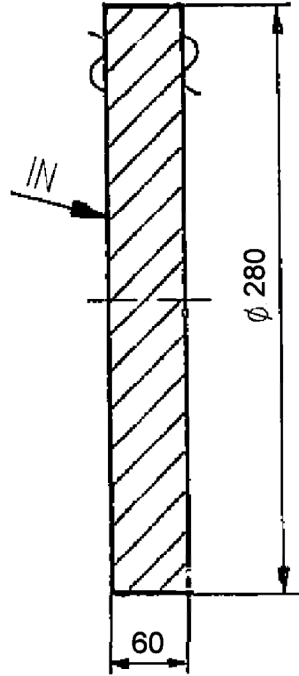
FIRST ANGLE PROJECTION

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

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./C.B.O.M.- NO.		STATUS OF DRG U	
		CHECKED			CHECKED	0-10738-50100			
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

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

50/ ALL OVER EXCEPT OTHERWISE STATED




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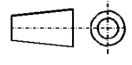
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TIN NO.  
Ref. Drawing No > KUN 507.10-B d.s DWG/A0102A7268

TECHNICAL REQUIREMENT

(1.) IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE INDICATED WITH IN.

Sign & Date	 <b>BHARAT HEAVY ELECTRICALS LTD.</b> RANIPUR, HARDWAR	DRN	NAME	SIGN	DATE	NO. OF VAR --
		CHD	MONIKA	SD/-	16.01.2018	
		APPD	PRADEEP	SD/-	17.01.2018	
			D.K.RAY	SD/-	17.01.2018	

Inventory No.	DEPT STE	 SCALE ---	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
	CODE 4011		30	0 10738 50100	11	--
	TITLE : WASHER			CARD CODE	DRAWING NO. 4-10738-50111	22 23 24
			SHEET No.	01	NO. OF SHEETS	01

# FIRST ANGLE PROJECTION

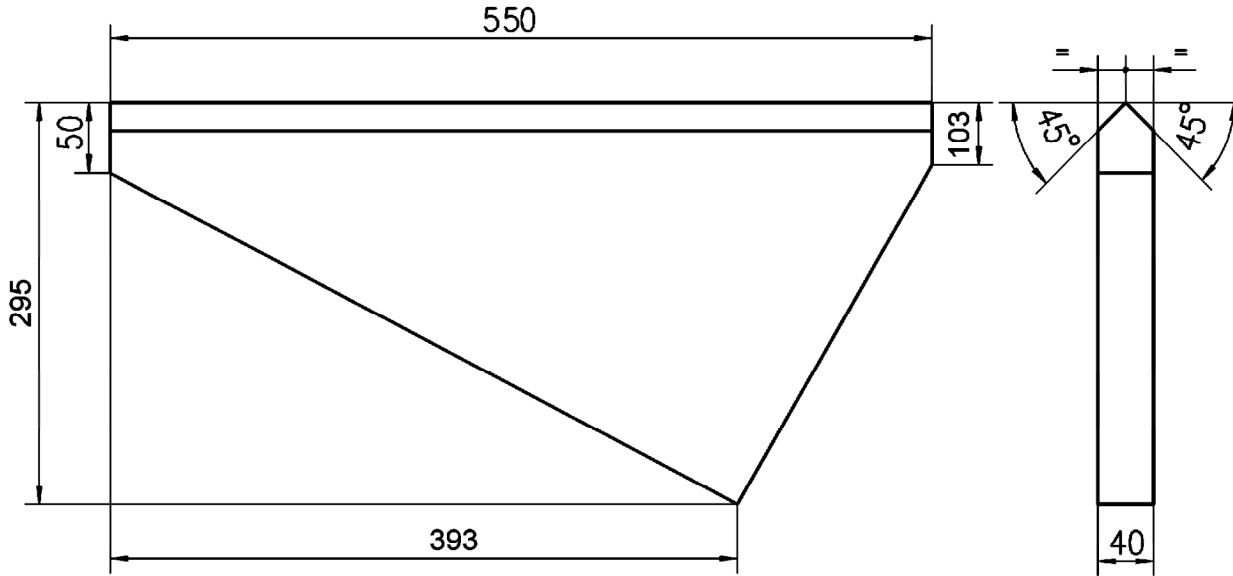
DOC REV NO.: 0

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>		STATUS OF DRG U	
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

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

**50** ✓ ALLOVER EXCEPT  
OTHERWISE STATED



## TECHNICAL REQUIREMENTS:-

1-IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE MARKED WITH IN .

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TIN NO.

Ref.Drawing No> D3PPG-0052904  
p #067500-0052904

Sign & Date



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

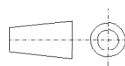
	NAME	SIGN	DATE
DRN	MONIKA SINGH	SD/-	16.01.2018
CHD	PRADEEP	SD/-	17.01.2018
APPD	D.K.RAY	SD/-	17.01.2018

NO. OF  
VAR

—

Inventory No.

DEPT STE  
CODE 4011



SCALE  
1:5

WEIGHT (KG)  
29.55

REF. TO ASSY. DRG.  
0 10738 50100

ITEM  
No.  
13

NO. OF  
ITEMS

—

TITLE :

**PLATE**

CARD  
CODE

DRAWING NO.  
**4-10738-50113**

22 23 24

SHEET No. 01 No. OF SHEETS 01

A4 SIZE

# FIRST ANGLE PROJECTION

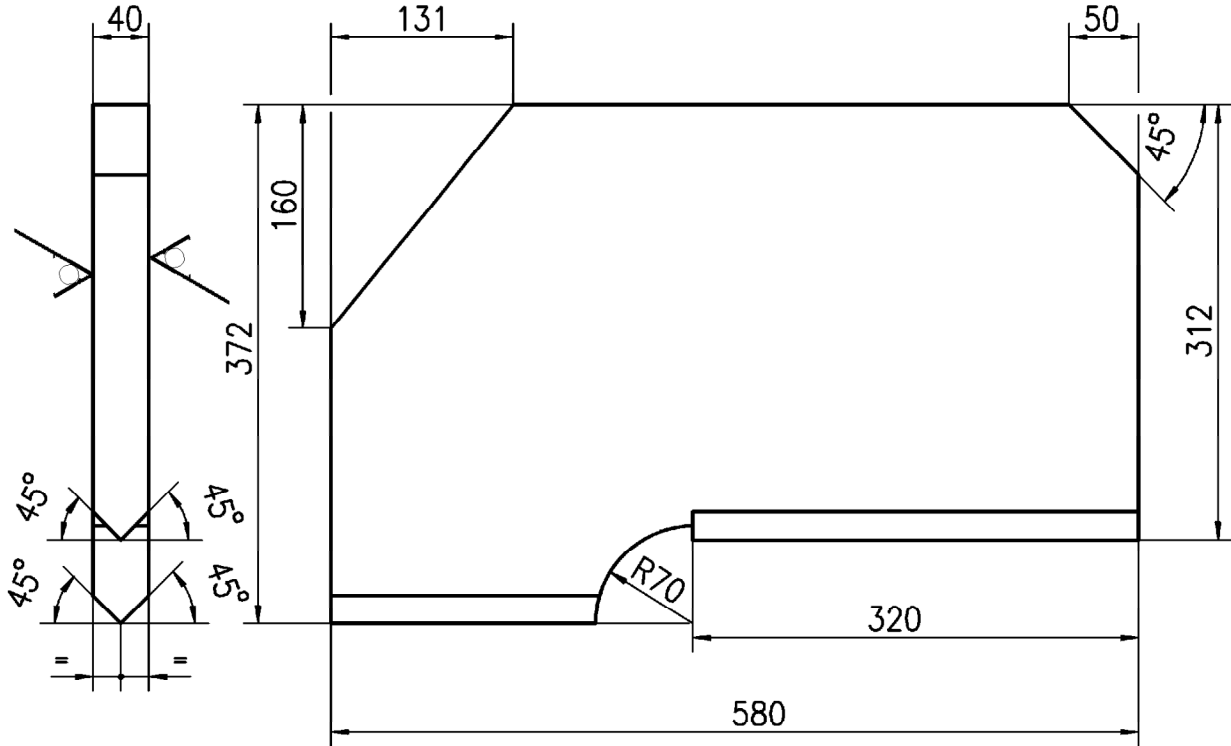
DOC REV NO.: 0

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>		STATUS OF DRG U	
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

GRADE OF UNTOL.DIM MCG. C/MF -AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

50 ✓ ALLOVER EXCEPT  
OTHERWISE STATED



## TECHNICAL REQUIREMENTS:-

1-IDENTIFICATION ACCORDING TO HW0400397.

TIN NO.

Ref.Drawing No>  
DSPPG-0052903  
11846-221221/014

Sign & Date

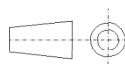


**BHARAT HEAVY ELECTRICALS LTD.**  
**RANIPUR, HARDWAR**

	NAME	SIGN	DATE	NO. OF VAR
DRN	MONIKA SINGH	SD/-	16.01.2018	—
CHD	PRADEEP	SD/-	17.01.2018	—
APPD	D.K.RAY	SD/-	17.01.2018	—

Inventory No.

DEPT STE  
CODE 4011



SCALE  
1:5

WEIGHT (KG)  
55.2

REF. TO ASSY. DRG.  
0 10738 50100

ITEM  
No.  
14

TITLE :  
**RIB**

CARD  
CODE  
7

DRAWING NO.  
**4-10738-50114**

22 23 24

SHEET No. 01 No. OF SHEETS 01

A4 SIZE

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# FIRST ANGLE PROJECTION

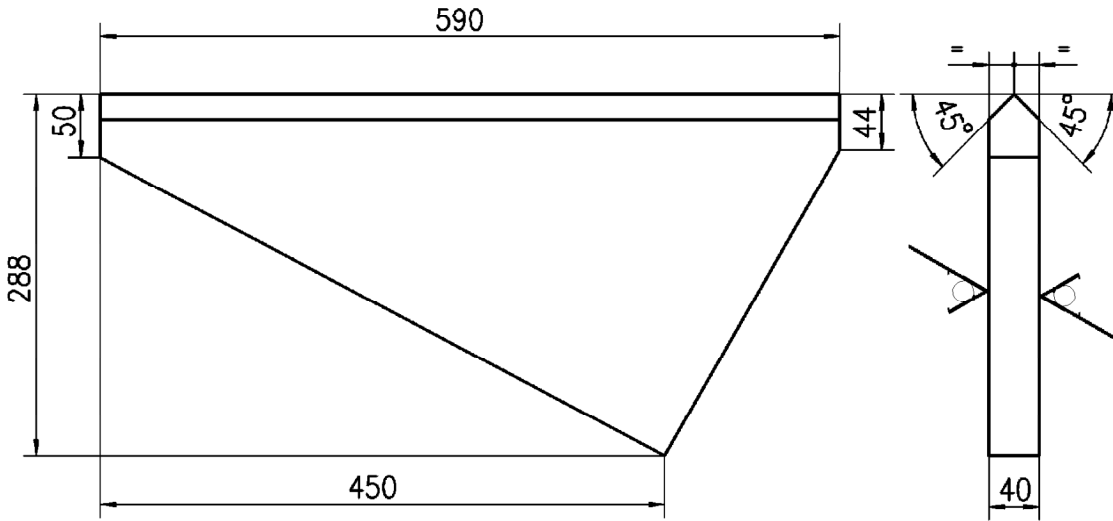
DOC REV NO.: 0

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>		STATUS OF DRG U	
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

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

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OTHERWISE STATED



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TIN NO.

Ref.Drawing No>  
DSPPG-0052904  
11846-221221/015

Sign & Date



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

	NAME	SIGN	DATE	NO. OF VAR
DRN	MONIKA SINGH	SD/-	16.01.2018	—
CHD	PRADEEP	SD/-	17.01.2018	—
APPD	D.K.RAY	SD/-	17.01.2018	—

DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011		1:2.5	29, 3	0 10738 50100	115	—

TITLE :	CARD CODE	DRAWING NO.	NO. OF SHEETS
<b>PLATE</b>	7	<b>4-10738-50115</b>	01
		SHEET No.	01

A4 SIZE

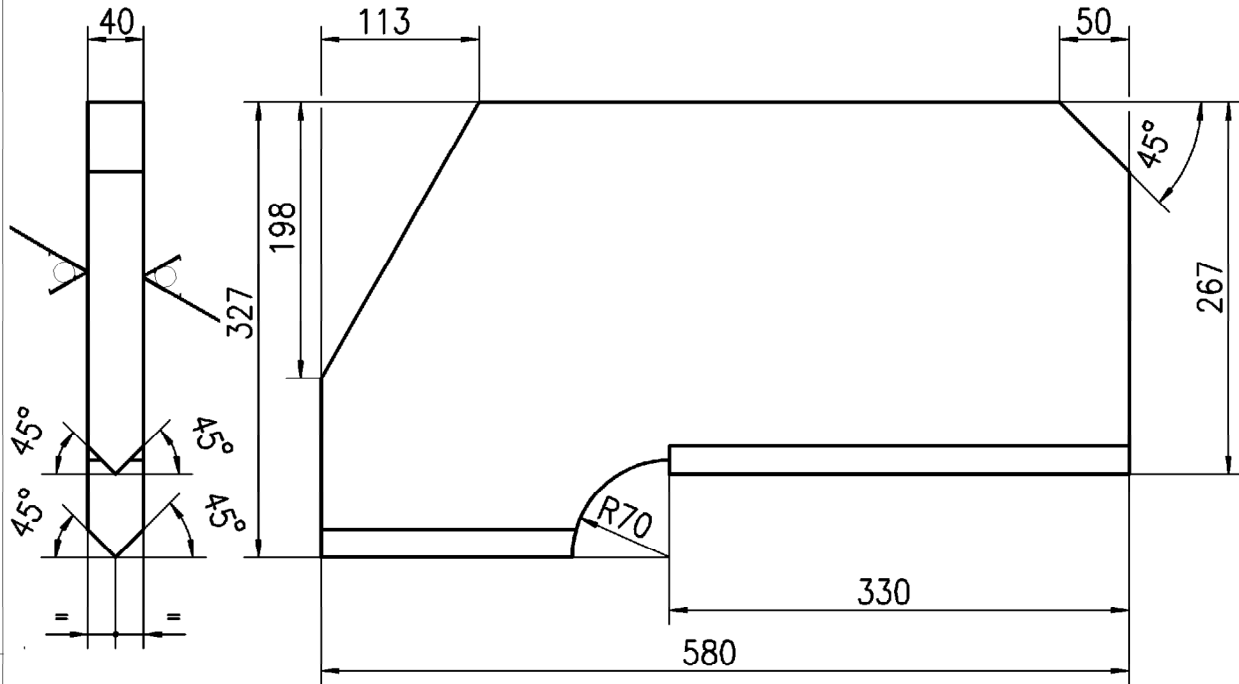
FIRST ANGLE PROJECTION

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>		STATUS OF DRG U	
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

GRADE OF UNTOL.DIM MCG. C/MF -AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

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OTHERWISE STATED



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TIN NO.

Ref.Drawing No>  
DSPPC-0052906  
11846-221221/016

Sign & Date

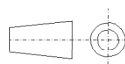


**BHARAT HEAVY ELECTRICALS LTD.**  
**RANIPUR, HARDWAR**

	NAME	SIGN	DATE	NO. OF VAR
DRN	MONIKA SINGH	SD/-	16.01.2018	—
CHD	PRADEEP	SD/-	17.01.2018	—
APPD	D.K.RAY	SD/-	17.01.2018	—

Inventory No.

DEPT STE  
CODE 4011



SCALE  
1:5

WEIGHT (KG)  
46,6

REF. TO ASSY. DRG.  
0 10738 50100

ITEM  
No.  
16

TITLE :

**RIB**

CARD  
CODE

DRAWING NO.  
**4-10738-50116**

22 23 24

SHEET No. 01 No. OF SHEETS 01

A4 SIZE

# FIRST ANGLE PROJECTION

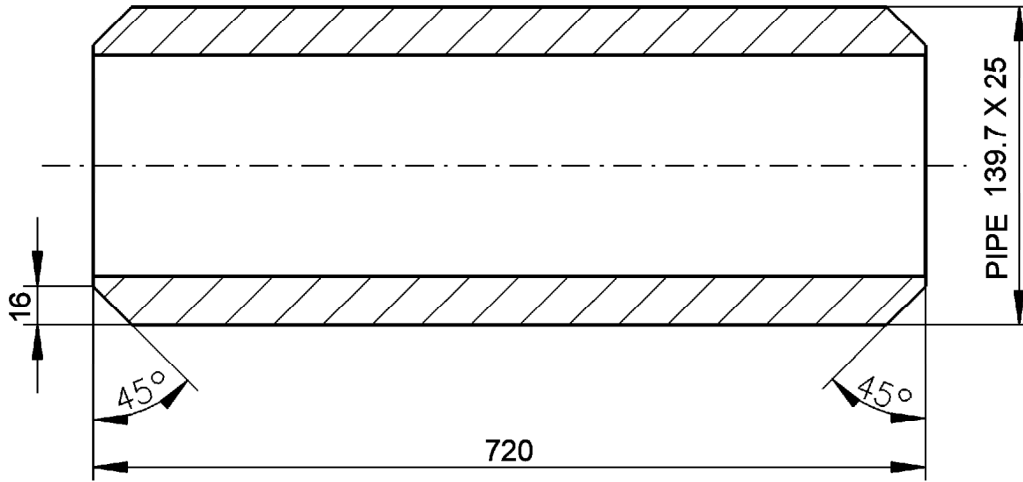
DOC REV NO.: 0

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>		STATUS OF DRG U	
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

GRADE OF UNTOL.DIM MCG. C/MF -AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

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OTHERWISE STATED



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TIN NO.

Ref.Drawing No-  
**A0150A9581**

Sign & Date



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

	NAME	SIGN	DATE	NO. OF VAR
DRN	MONIKA SINGH	SD/-	16.01.2018	—
CHD	PRADEEP	SD/-	17.01.2018	—
APPD	D.K.RAY	SD/-	17.01.2018	—

Inventory No.

DEPT STE  
CODE 4011



SCALE  
1:2.5

WEIGHT (KG)  
52.125

REF. TO ASSY. DRG.  
0 10738 50100

ITEM No.  
18

TITLE :

**PIPE**

CARD CODE  
7

DRAWING NO.  
**4-10738-50118**

22 23 24

SHEET No. 01 No. OF SHEETS 01

A4 SIZE

# FIRST ANGLE PROJECTION

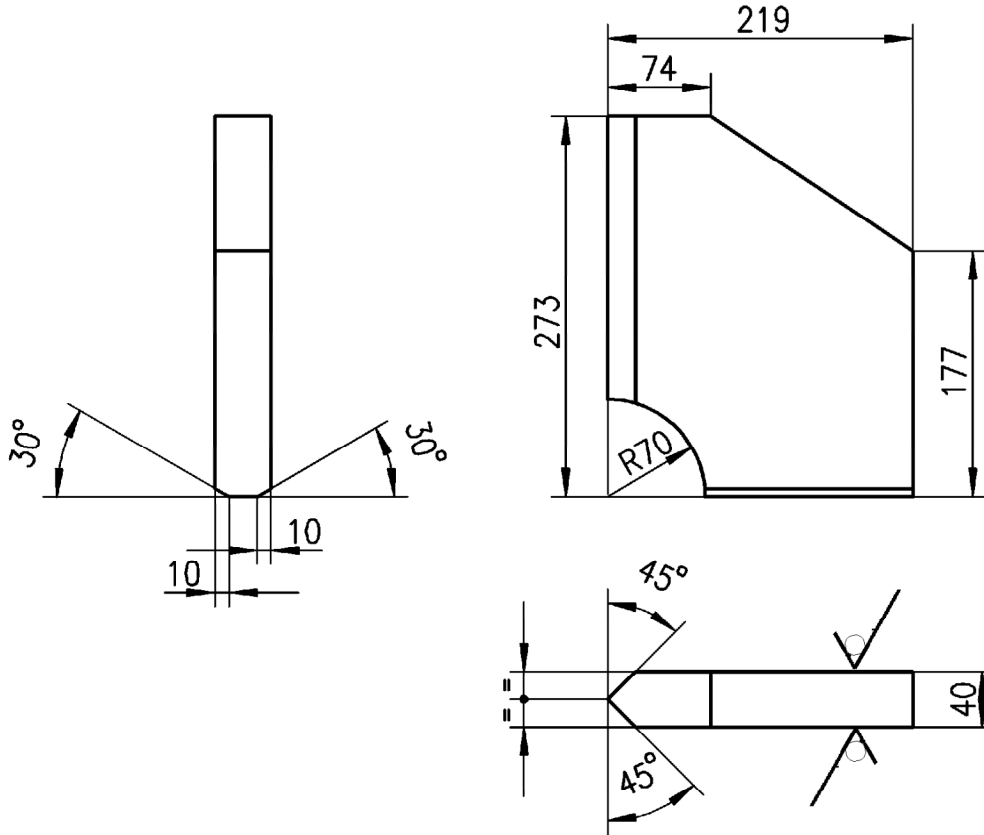
DOC REV NO.: 0

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>	STATUS OF DRG U
ZONE			ZONE			AGREED DEPT <b>WTX</b>	NAME <b>S.K.T</b>
						SIGN <b>SD/-</b>	DATE <b>09.03.18</b>

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

50/ALLOVER EXCEPT  
✓ OTHERWISE STATED



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TIN NO.

Ref.Drawing No.  
DSPPG-0052913a  
11846-221221/014

Sign & Date



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

	NAME	SIGN	DATE
DRN	MONIKA SINGH	SD/-	16.01.2018
CHD	PRADEEP	SD/-	17.01.2018
APPD	D.K.RAY	SD/-	17.01.2018

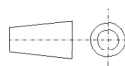
NO. OF  
VAR

—

—

Inventory No.

DEPT STE  
CODE 4011



SCALE  
1:5

WEIGHT (KG)  
14.7

REF. TO ASSY. DRG.  
0 10738 50100

ITEM  
No.  
23

NO. OF  
ITEMS

—

TITLE :

**PLATE**

CARD  
CODE

DRAWING NO.  
**4-10738-50123**

22 23 24

SHEET No. 01 No. OF SHEETS 01

A4 SIZE

# FIRST ANGLE PROJECTION

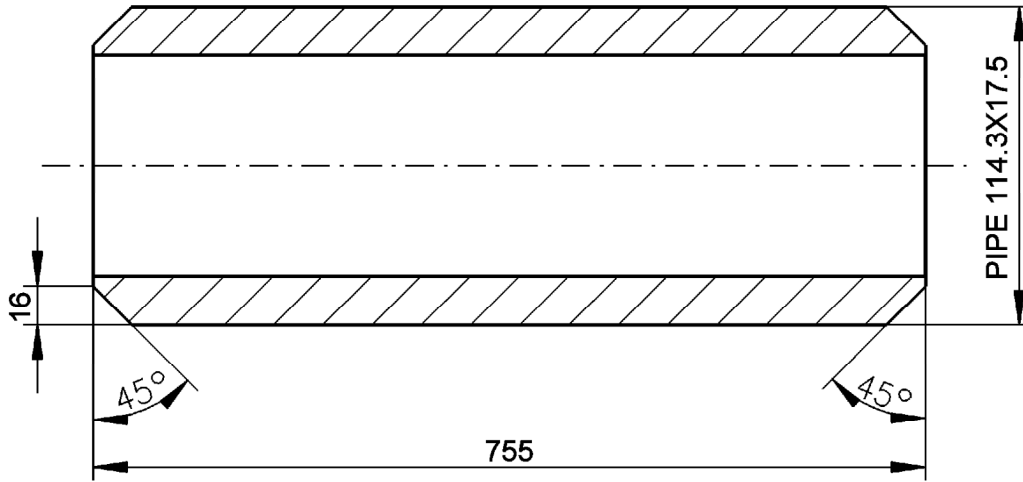
DOC REV NO.: 0

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

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./C.B.O.M.- NO. <b>010738 50100</b>		STATUS OF DRG U	
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WTX	S.K.T	SD/-	09.03.18

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

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OTHERWISE STATED



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TIN NO.

Ref. Drawing No.  
7666-22122  
/018

Sign & Date

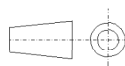


**BHARAT HEAVY ELECTRICALS LTD.**  
**RANIPUR, HARDWAR**

	NAME	SIGN	DATE	NO. OF VAR
DRN	MONIKA SINGH	SD/-	16.01.2018	—
CHD	PRADEEP	SD/-	17.01.2018	—
APPD	D.K.RAY	SD/-	17.01.2018	—

Inventory No.

DEPT STE  
CODE 4011



SCALE  
1:2.5

WEIGHT (KG)  
30.2

REF. TO ASSY. DRG.  
0 10738 50100

ITEM No.  
32

NO. OF ITEMS  
—

TITLE :

**PIPE**

CARD CODE  
7

DRAWING NO.  
**4-10738-50132**

22 23 24

SHEET No. 01 No. OF SHEETS 01

A4 SIZE

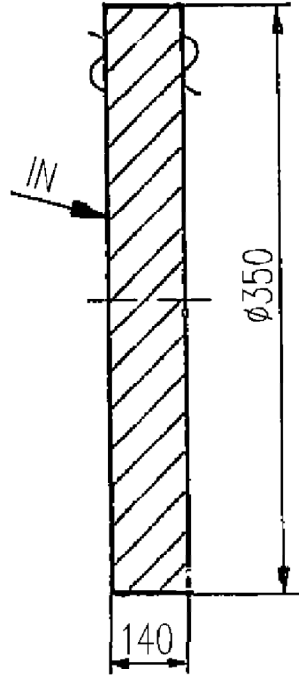
FIRST ANGLE PROJECTION

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

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./C.B.O.M.- NO.		STATUS OF DRG U
		CHECKED			CHECKED	0-10738-59000		
ZONE					AGREED DEPT	NAME	SIGN	DATE
					WTX	SKT	SD/-	02.02.16
					TTX	SKG	SD/-	05.02.16

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

50/ ALL OVER EXCEPT OTHERWISE STATED




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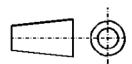
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TIN NO.  
Ref. Drawing No >  
KUN 507.10-B.d.s  
DWG/A0102A7268

TECHNICAL REQUIREMENT

(1.) IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE INDICATED WITH IN.

Sign & Date	 <b>BHARAT HEAVY ELECTRICALS LTD.</b> RANIPUR, HARDWAR			NAME	SIGN	DATE	NO. OF VAR	
				DRN	ANOOP	SD/-		18.01.16
				CHD	PRADEEP	SD/-		18.01.16
				APPD	D.K.RAY	SD/-		05.02.16

Inventory No.	DEPT STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
	CODE 4011		---	106.0	0-10738-59100	08	
	TITLE : WASHER				CARD CODE	DRAWING NO. 4-10738-59108	22 23 24

SHEET No. 01 No. OF SHEETS 01

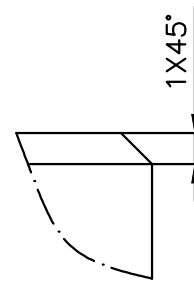
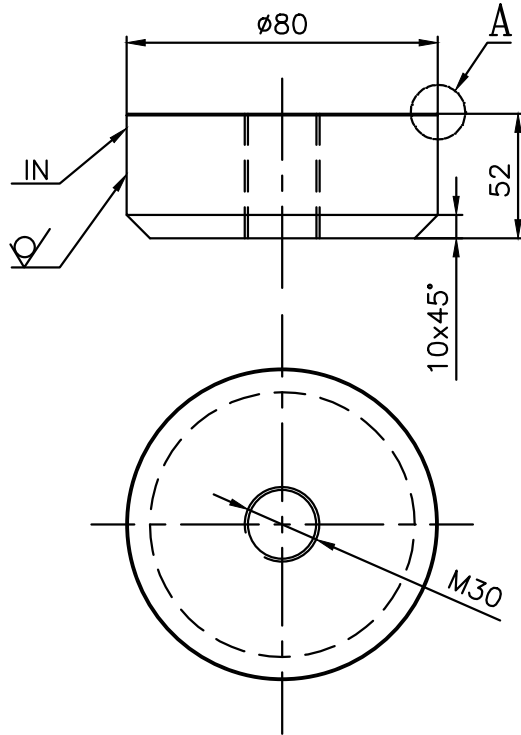
A4 SIZE

FIRST ANGLE PROJECTION

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

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./ C.B.O.M.- NO. 0 10738 59000	STATUS OF DRG U		
		CHECKED			CHECKED				
ZONE			ZONE			AGREED DEPT	NAME	SIGN	DATE
						WT	SKT	-sd-	02.02.16
						TTX	SKG	-sd-	05.02.16
GRADE OF UNTOL.DIM		M/CG. - AA0230208 m		WELDING-CLASS 'B' OF ISO13920:1996		GAS CUTTING-TABLE 3 OF AA0621101			

50 / ALL OVER EXCEPT OTHERWISE STATED



DETAIL A  
SCALE 5:1

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KUN694.10  
Ref.Drawing No>

IDENTIFICATION AS PER HW0400397 AT THE PLACE MARKED WITH IN →

Sign & Date		BHARAT HEAVY ELECTRICALS LTD.		DRN	ANOOP	SD/-	18.01.16	NO. OF VAR
		RANIPUR, HARDWAR		CHD	PRADEEP	SD/-	18.01.16	
				APPD	D.K.RAY	SD/-	05.02.16	
Inventory No.	DEPT STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM No.	NO. OF ITEMS
	CODE 4011		1:2	1.8	1-10738-59100		26	
	TITLE : BOSS ø80			CARD CODE	DRAWING NO. 4-10738-59126			
					7	22	23	24
					SHEET No. 01	No. OF SHEETS 01		

A4 SIZE