



**BHARAT HEAVY ELECTRICALS LIMITED**  
**HEEP: HARDWAR-249403 (UK)**  
**Fax: 01334-226462, Phone: 01334-284570**  
**E-mail: [ajaykumar.gupta@bhel.in](mailto:ajaykumar.gupta@bhel.in)**

**Tender no: AIX-F/EOI/17-18/01**

**Due Date: 26.02.2018**

**Notice for Expression of Interest for empanelment of New Vendors**

The Heavy Electrical Equipment Plant (HEEP) located in Haridwar, is one of the major manufacturing plants of BHEL. The core business of HEEP includes design and manufacture of large steam and turbo generators, condenser and so on.

**We are looking for reputed vendors having capability for machining (edge preparation) of Titanium Cladded Plates.**

**Approx. annual requirement is for drilling in 1000 Nos. of Titanium Clad Plate.**

**Contact persons:**

Mr. Saurabh Yadav  
Designation: Sr. Engr (AIX-F)  
Email: [saurabhy@bhel.in](mailto:saurabhy@bhel.in)  
Phone No: +91 1334-284520  
Mobile: +91 7409036919

Mr. Ajay Kr Gupta  
Designation: AGM (PPX & AIX-F)  
Email: [ajaykumar.gupta@bhel.co.in](mailto:ajaykumar.gupta@bhel.co.in)  
Phone No: +91 1334-284570  
Mobile: +91 9410395962

The offers received will be technically evaluated by BHEL & successful short listed parties will be asked to submit their detailed Techno-Commercial offers through formal NIT/Enquiry for our future requirements. Vendors shall confirm that there is no deviation with respect to BHEL PQR. However deviations, if any are to be listed as a separate attachment. The offers that do not meet the substantial requirements of our specifications/PQR are liable to be ignored.

**Following documents are to be necessarily filled and submitted along with the technical offer:**

1. Details/ Documents in support of PQR/ Technical Requirement as per **Annexure-I**.
2. Quality Requirements (**Annexure- II**).
3. Supplier/Vendor Registration Form- Go through online supplier registration portal <https://supplier.bhel.in/>. After filling the online registration form send the copy of same along with your offer within due date.
4. Details of Manufacturing Facility
5. Company Profile.
6. Financial report of the company.
7. Past experience along with documentary proof.

Only Technical BID along with the documents mentioned above should be sent and the envelope containing the offer shall be duly sealed and super scribed as **“Technical Offer for (ITEM NAME) AGAINST Tender No. AIX-F/EOI/17-18/01, Due Date-26.02.2018, SUBMITTED BY (Name of company)”**.



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- This notification shall be published on [www.bhel.com](http://www.bhel.com), [www.tenders.gov.in](http://www.tenders.gov.in) and [www.bhelhwr.co.in](http://www.bhelhwr.co.in)
- Last date for downloading tender documents shall be 25.02.2018 till 1700 Hrs.(IST). Tenders will be received up to 13:45 Hrs. (IST) on 26.02.2018 will be considered and opened on the same day at 14:00 Hrs. (IST) in the Tender Room BHEL HEEP, Haridwar.
- Technical Offers complete in all respect must be addressed to Shri Ajay Kr Gupta, AGM (PPX & AIX- F).
- EMD & Tender fee are not applicable.
- The Quotation should be from the Principal / Original Manufacturer, failing which the quotation may likely to be ignored. In Case the quotation is submitted through agent, the quotation must accompany original authorization letter.
- Late offers will not be considered in any case. BHEL will not be responsible for any type of postal delay / incomplete information from vendor.
- Amendments / Corrigendum, if any, will be hosted on our web site only.

**For any further details please log on to [www.bhel.com](http://www.bhel.com) or [www.tenders.gov.in](http://www.tenders.gov.in) or [www.bhelhwr.co.in](http://www.bhelhwr.co.in).**

**(Ajay Kr Gupta)**  
**AGM (PPX & AIX-F)**



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## ANNEXURE-I

### **PQR for machining (edge preparation) of Titanium Cladded Plates at Vendor Works for Flu gas liner (FGD)**

<b>01.00</b>	<b>TECHNICAL REQUIREMENT</b>	<b>Required</b>	<b>Offered</b>	<b>Remarks</b>
01.01	<p>Vendors should have experience of machining of Titanium Cladded plates specially for edge preparation by removing Titanium cladding through machining as per details below:</p> <ul style="list-style-type: none"> <li>i) Total thickness 8mm and above Titanium cladding thickness 2mm and above and Carbon Steel thickness 6mm and above.</li> <li>ii) Machined plate size should be 2.5 meter in width and 7 meter in length and above.</li> <li>iii) Bevel cutting along the periphery of plate.</li> <li>iv) Material Grade : Carbon Steel as per SA 516, Gr. 70 Titanium as per ASTM B 265, Gr. 2</li> <li>v) Lifting capacity at vendor works should be 5 Tons and above.</li> </ul>	Vendor to agree & submit suitable evidence		
01.02	Vendor to furnish certificate against clause 01.01 from the customer/company or end user duly confirming that machined (edge prepared) Titanium Cladded plate was supplied and used.	Vendor to agree & submit suitable documents		
01.03	Vendor to furnish name of customer/company with complete contact details and month/year of previous supply along with copy of PO, type of manufacturing facility used for machining(edge preparation), supply documents and third party inspection documents of supplied machined Titanium cladded plates for which certificate is furnished as per clause 1.02.	Vendor to agree & submit suitable documents		
01.04	Machining (edge preparation) of Titanium Cladded Plate may be done on Edge Planar preferably to save time and to meet delivery requirements with in stipulated time. Vendor to specify the manufacturing facility to be used for Machining (edge preparation) of Titanium Cladded Plate.	vendor to agree & submit suitable evidence		



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01.05	All PQR documents are to be stamped and signed in original by Vendor. In case documents and official stamp is in language other than English, documents and details of official stamp are to be translated in English and duly certified by Government agency/approved agency of Government/Embassy.	Vendor to agree & submit suitable documents		
01.06	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, their offers shall be rejected.	Vendor to agree		

02.00	TECHNICAL ACCEPTANCE CRITERIA:	Required	Offered	Remarks
02.01	<b>DRILLING REQUIREMENT:</b> (a) Machine surface finish 6.3 microns or better (b) DPT 100% of machined surface. (c) Angle of bevel should be +/- 1 degree.	vendor to agree		
02.02	Vendors to furnish manufacturing plan with details of machining (edge preparation) process and Titanium cladding removing technique to BHEL for approval before starting machining (edge preparation) of Titanium Cladded Plate.	Vendor to agree		

**Note: PQR is not restrictive**



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## **ANNEXURE-II**

<b>01.00</b>	<b>QUALITY REQUIREMENTS</b>	<b>Required</b>	<b>Offered</b>	<b>Remarks</b>
01.01	All vendors to furnish quality plan along with offer, for our review and approval.	Vendor to agree.		
01.02	All Vendors to confirm inspection of machined Titanium Cladded plate by third party inspection agency (LRS/TUV/BV) for overseas vendors and BHEL nominated agency 'TUV' for indigenous vendors as per BHEL approved QP	Vendor to agree.		

DRAWING NO.

7

6

5

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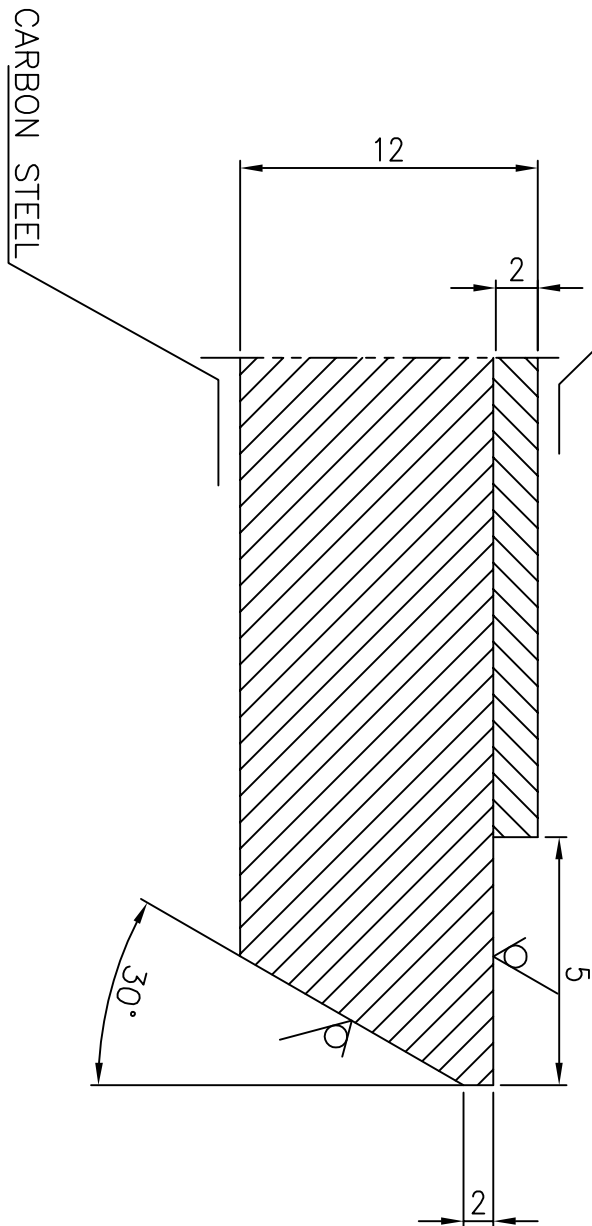
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2

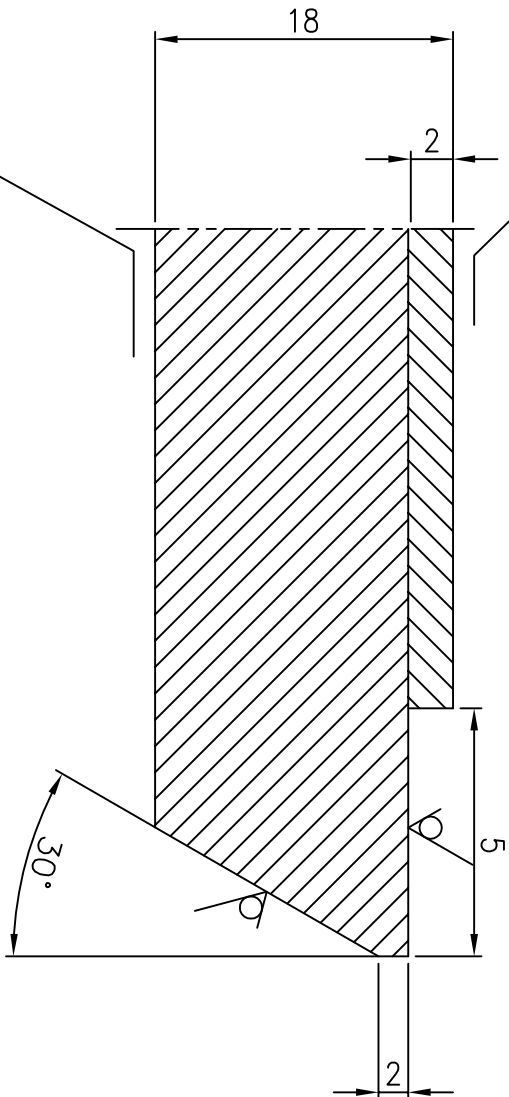
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THE REST.

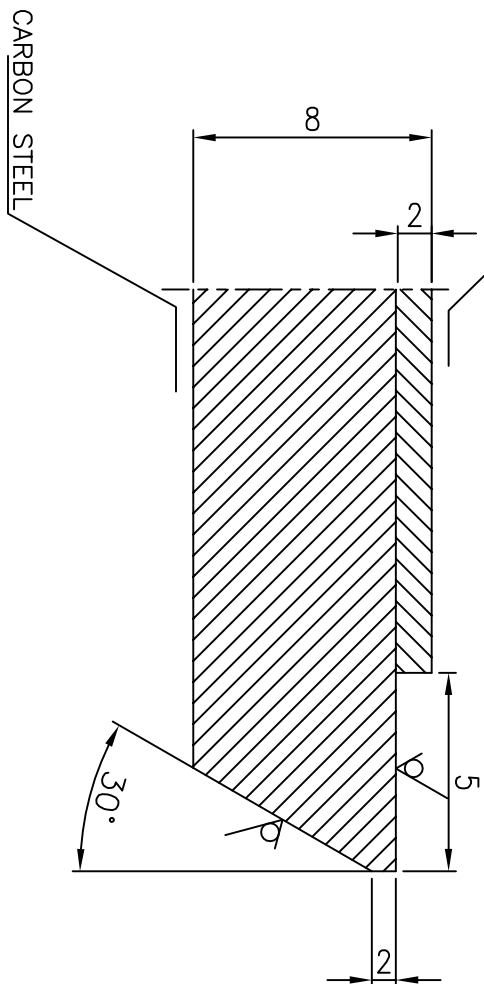
TI CLADDED SURFACE  
A—A (10mm+ 2mm THK PLATES)



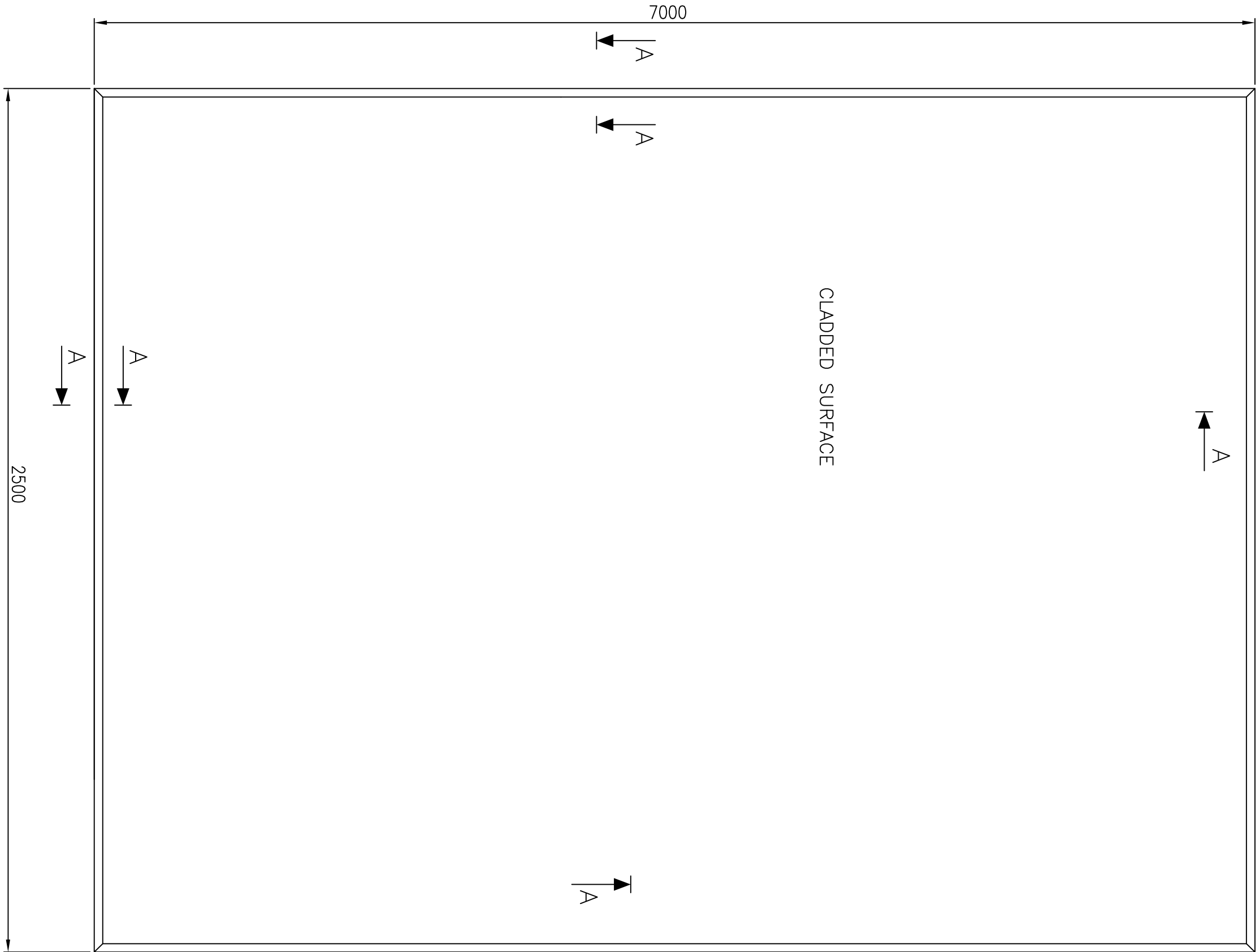
TI CLADDED SURFACE  
A—A (16mm+ 2mm THK PLATES)



CARBON STEEL  
TI CLADDED SURFACE  
A—A (6mm+ 2mm THK PLATES)



CLADDED SURFACE



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INVENTORY NO.

SIGN & DATE

REF. DRG NO.

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

CBOM NO.		STATUS OF DRG.	
AGREED DEPT.	NAME	SIGN	DATE
WT.	BL MEENA	Sd.	-

TYPE OF PRODUCT OR  
NAME OF CUSTOMER/ PROJECT



**BHARAT HEAVY ELECTRICALS LTD.**  
**HARDWAR**

DRN	T.BANSAL	Sd.	18.1.18	NO.OF VAR.
CHD	T.BANSAL	Sd.	18.1.18	
APD	R.BANSAL	Sd.	18.1.18	73.1.24

REF. TO ASSY. DRG.

ITEM NO.OF ITEMS

DEPT.	HXE	SCALE	WEIGHT(Kg.)	REF. TO ASSY. DRG.
CODE	4222	NTS		

TITLE

CHIMNEY FLUE AND DUCT LINER

DRAWING NO.

8

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1

SHEET NO. 01 NO.OF SHEETS 01

SIZE A2