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Heavy Plates & Vessels Plant
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INVITATION TO TENDER

Ref: OS/21-22/7820/Clad_Sheet/12/016

Date: 24.09.2021

Sub: Fabrication of SS Cladding Sheets against S.O. No. 7820 at Vendor works with Free issue materials

Dear Sir,

Sealed tenders are invited in **Two part bid** system from **Vendors** who are experienced in Fabrication of Clad sheets.

1. VENDOR'S SCOPE OF WORK:

- The total quantity of SS Cladding Sheets to be fabricated is **8 MT approx.** The details of components to be fabricated are given in Annexure- II.
- Fabrication of SS Cladding Sheets, which involves various operations like Marking, Shearing, Drilling/ Punching/ Slot Cutting, Chamfering, Bending etc., of SS sheets as per Drawings, GMS, WPS, QAP, Specifications etc.
- Collection of raw materials from HPVP stores and transportation to Vendor's works. Loading, Transportation & handing over of finished items to HPVP Logistics dept.
- Offering for Final Inspection and obtaining inspection clearance including all documentation.
- Though not mentioned specifically, any activity which is required for completion of the work as per the drawings and QAP is deemed to be included in the scope of work of vendor. Any modification work due to revision of drawings during fabrication is to be carried out by the vendor without any extra cost.

2. BHEL's SCOPE:

BHEL shall supply the following as free issue:

- Sheets in the form of rolls / off-cuts
- Drawings, GMS, Shipping List, QAP, WPS etc.

3. LOCATION OF WORK SPOT:

The fabrication work is to be carried out **at Vendor's works.**

4. INSPECTION:

Inspection shall be carried out by M/s. BHEL/ BHEL Authorized Inspection Agency/ Customer as per approved QAP. All the documentation related to inspection such as BHEL/ TPI/ Customer Clearance, Generation of Inspection Reports, Preparation of Final Documents as per BHEL standard formats etc., is in the scope of vendor and soft copy as well as hard copy of the same are to be submitted to BHEL-QA.

5. DELIVERY:

Finished items along with inspection documents and all other relevant certificates are to be handed over to Logistics dept. within **3 weeks from the date of issue of raw materials.**

The delivery period will be calculated from the date of issue of last consignment of materials to the date of delivery of finished items against respective DUs. The delivery period includes the time involved in collection of all raw materials, cutting plan approval, handing over of finished items at HPVP- Logistics.

6. VALIDITY OF OFFER:

The offer shall be valid for a period of **3 months** from the date of Reverse Auction.

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7. PRICE:

The prices shall be quoted for the detailed scope of work in the Schedule of Rates enclosed at Annexure- I. The prices shall be fixed & firm without any escalation during the entire period of contract and till completion of the work.

The quoted price shall be **inclusive of all applicable taxes & duties except GST** and GST shall be reimbursable to the vendor as per the applicable guidelines. Income tax shall be deducted at applicable rates from the vendor's bills.

8. GOODS & SERVICES TAX (GST):

Bidders shall make a note of the following points of GST before submission of their offer:

- a) Vendors registered under GST Act shall have to mention their GSTIN no. (15 Digits) in their Technical Bid. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.
- b) Semi-finished goods are to be delivered by the Vendors in BHEL, HPVP premises within a maximum period of one year from the date of issue of the material, failing which the whole transaction will be considered as Supply and Sale and GST is required to be paid along with interest (calculated @ SBI Base Rate + 6%) along with penalty, if any, from the date of Challan on the whole value of materials. Hence vendors shall have to ensure that materials issued to them are returned within 365 days.
- c) After fabrication, the vendors shall have to deliver the Semi-Finished Goods by fulfilling the following formalities:
 - i) GST invoice should be raised by the vendors by paying GST on job work charges at applicable rates and by incorporating the HPVP GSTIN no. in the invoice for availing the reimbursement of GST from HPVP.
 - ii) The vendor shall also have to enter in their GST Return -1 (GSTR-1) the details of invoice raised for payment of GST so as to enable HPVP to avail input tax credit.

9. REVERSE AUCTION:

BHEL shall be resorting to Reverse Auction (RA) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Business Rules for Reverse Auction are given at Annexure – V. Bidder may refer Guidelines for Reverse Auction available on our website, www.bhel.com → supplier registration → Guidelines for Reverse Auction 2021, before submission of their offer.

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

BHEL will inform bidders the details of service provider who will provide business rules, all necessary training and assistance before commencement of online bidding. The bidders participating in the Reverse Auction shall have to necessarily submit '**Process Compliance Form**' (PCF) to the designated Service Provider.

Bidders are advised to read the 'Business Rules' (Annexure – V) indicating details of RA event carefully, before reverse auction event.

10. RISK PURCHASE:

In case the contractor fails to execute the work within the scheduled time or due to any other reasons, BHEL-HPVP reserves the right to get the same completed through some other party at the risk & cost of the contractor and any additional expenditure incurred due to the same shall be charged to the contractor.

11. Other Terms & Conditions shall be as per Annexure –III enclosed.

12. GENERAL:

- a) The bidders shall study the Tender documents, Drawings, Quality Documents and all other relevant documents in detail for understanding the scope of work and the processes involved before submission of offer. Bidders shall get clarifications, if any, from concerned officials on the scope of work, clarifications related to welding or any other details of the tender document, over phone between 09:00 AM and 04:00 PM on any working day or through e-mail.
- b) **Conditional/Partial Price Bids** and any other deviations to the tender terms & conditions are not acceptable and BHEL reserves the right to reject such offers without further correspondence. Bidders shall confirm their acceptance to all the terms & conditions of the tender enquiry in the Techno-commercial Bids and any deviations mentioned in the Price Bids shall not be considered for evaluation.
- c) BHEL reserves the right to modify or cancel the tender enquiry at any stage without assigning any reasons thereof.
- d) The General Terms & Conditions, if any, contradicting with the specific terms & conditions given in the tender, then specific terms & conditions shall only be considered

13. The following documents shall form part of the tender enquiry:

- | | |
|---|------------------|
| i) Schedule of Rates | : Annexure - I |
| ii) Details of items to be fabricated & applicable drawings | : Annexure - II |
| iii) General Terms & Conditions | : Annexure - III |
| iv) Acceptance to tender terms & conditions | : Annexure - IV |
| v) Business Rules for Reverse Auction | : Annexure - V |
| vi) GST Compliance for Indigenous Suppliers | : Annexure - GST |

14. TENDER SUBMISSION (through E – Mail only):

- a) Techno-commercial bids along with the tender document duly signed & stamped by the bidder on all pages and a covering letter on Company's Letter Head addressed to DGM (Outsourcing), BHEL-HPVP, Visakhapatnam shall be sent through an e-mail to the e-mail ID technicalbid-hpvp@bhel.in
- b) Price bid (i.e., Annexure – I) shall also be sent separately through e-mail to another e-mail ID pricebid-hpvp@bhel.in
- c) Offers completed in all respects along with all the supporting documents shall be sent to the above e-mails only latest by **14.00 Hrs. on 01.10.2021** duly mentioning the Name of Work, Tender Ref. No. & Date and Technical Bid / Price Bid in the subject of the e-mail.

Note: Don't mark CC and BCC while submitting your offer as the system is designed to reject such mails having more than one recipient. Max. file size of the attachment shall be 20 MB only. In case the file size is more, bidder can submit their offer through multiple mails within the due date and time.

Bidders shall ensure correctness of the e-mail addresses while submitting their offer. There shall be no other e-mail address at the receiving end while submission of the above bids otherwise the system will reject such mails. Bidder shall be solely responsible for non-receiving of such mails at the above mentioned e-mail addresses and no communication in this regard will be entertained.

- d) **TENDERS RECEIVED AFTER THE DUE DATE & TIME ARE NOT ACCEPTABLE.**
- e) **OFFERS SENT IN ANY OTHER FORM WILL BE TREATED AS INVALID AND WILL BE SUMMARILY REJECTED.**

15. TENDER OPENING:

Techno-commercial Bids will be opened at **14.00 Hrs. on 01.10.2021**. The bidders may depute their representatives at the time of opening of Technical bids.

After evaluation of the Techno-commercial Bids, intimation regarding date & procedure of conducting reverse auction shall be given by the service provider to all eligible techno-commercially qualified bidders through an e-mail in advance at an appropriate time.

For Bharat Heavy Electricals Limited

[Signature]
D. N. MURTHY
Dy. Manager (OS)

Bharat Heavy Electricals Ltd
HPVP, Visakhapatnam - 750 012

ANNEXURE - I**SCHEDULE OF RATES**

Ref: OS/21-22/7820/Clad_Sheet/12/016

Date: 24.09.2021

Sub: Fabrication of SS Cladding Sheets against S.O. No. 7820 at Vendor works with Free issue materials

SL. No.	Description of Item	Unit	Total Qty.	Unit Rate (Rs.)	Total Amount (Rs.)
	Fabrication of SS Cladding Sheets which involves various operations like Marking, Shearing, Drilling/ Punching/ Slot Cutting, Chamfering, Bending of SS sheets as per applicable Drawings, GMS, WPS, QAP, Specifications etc., as detailed in the tender. (All tools & tackles are in Vendor's scope)				
1	SS Cladding Sheets as per Annexure-II	MT	8		
	TOTAL		8		
Total Amount in words :					

Notes :

- 1) The quantity and weights indicated above are tentative and may slightly vary on both sides depending upon the requirement at the time of ordering/ execution. However, payment shall be made for the actual quantities & weights only.
- 2) The quoted price shall be inclusive of all applicable taxes & duties except GST. GST shall be reimbursable to the vendor as detailed in Clause – 8. Income tax shall be deducted at applicable rates from the vendor's bills.
- 3) The prices shall be fixed & firm without any escalation during the entire period of contract and till completion of the work.
- 4) The bidders are advised to go through all the drawings & documents before quoting the tender.
- 5) The evaluation currency for this tender shall be **INR**.
- 6) Tenderer should quote the amount in figures & words. It may be noted that corrections, overwriting etc. are not allowed. If there is a discrepancy between amount in figures & words, the amount in words shall prevail unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail. If there is an error in the total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and total shall be corrected accordingly.
In case of any mismatch between quoted rate and amount in figures, rate in figures shall be taken into consideration for further evaluation and processing.

Signature of Bidder with Stamp

Tender Enquiry Ref: OS/21-22/7820/Clad_Sheet/12/016

Date: 24.09.2021

DETAILS OF ITEMS TO BE FABRICATED & DRAWINGS

Sub: Fabrication of SS Cladding Sheets against S.O. No. 7820 at Vendor works with Free issue materials

SL. NO.	S.O. No.	PGMA	DU No.	DU_DESCRIPTION	DU_UNIT	QTY	WEIGHT (KG)	DRG_NUMBER	DRG_REV	MATL. SPECIFICATION
SS Clad Sheets										
1	7820	32020	016	PLATE SA240 TP310S 2MM 840X840	NO	46	512.808	1-32-020-U0065	00	SA240 TP310S
2	7820	32020	017	PLATE SA240 TP310S 2MM 735 X 840	NO	40	390.200	1-32-020-U0065	00	SA240 TP310S
3	7820	32020	018	PLATE SA240 TP310S 2MM 530 X 840	NO	40	281.360	1-32-020-U0065	00	SA240 TP310S
4	7820	32020	019	PLATE SA240 TP310S 2MM 840 X 840	NO	40	445.920	1-32-020-U0065	00	SA240 TP310S
5	7820	32020	020	PLATE SA240 TP310S 2MM 440 X 735	NO	2	10.220	1-32-020-U0065	00	SA240 TP310S
6	7820	32020	021	PLATE SA240 TP310S 2MM 710 X 735	NO	2	16.490	1-32-020-U0065	00	SA240 TP310S
7	7820	32020	022	PLATE SA240 TP310S 2MM 590 X 840	NO	2	15.660	1-32-020-U0065	00	SA240 TP310S
8	7820	32020	023	PLATE SA240 TP310S 2MM 535 X 590	NO	2	9.974	1-32-020-U0065	00	SA240 TP310S
9	7820	32020	024	PLATE SA240 TP310S 2MM 560 X 840	NO	2	14.864	1-32-020-U0065	00	SA240 TP310S
10	7820	32020	025	PLATE SA240 TP310S 2MM 530 X 560	NO	2	9.378	1-32-020-U0065	00	SA240 TP310S
11	7820	32020	026	PLATE SA240 TP310S 2MM 750 X 840	NO	4	39.816	1-32-020-U0065	00	SA240 TP310S
12	7820	32020	027	PLATE SA240 TP310S 2MM 840 X 885	NO	3	35.238	1-32-020-U0065	00	SA240 TP310S
13	7820	32020	028	PLATE SA240 TP310S 2MM 750 X 885	NO	1	10.487	1-32-020-U0065	00	SA240 TP310S
14	7820	32020	029	PLATE SA240 TP310S 2MM 750 X 885	NO	1	10.487	1-32-020-U0065	00	SA240 TP310S
15	7820	32020	030	PLATE SA240 TP310S 2MM 690 X 840	NO	2	18.316	1-32-020-U0065	00	SA240 TP310S
16	7820	32020	031	PLATE SA240 TP310S 2MM 560 X 840	NO	2	14.864	1-32-020-U0065	00	SA240 TP310S
17	7820	32020	032	PLATE SA240 TP310S 2MM 230 X 840	NO	2	6.106	1-32-020-U0065	00	SA240 TP310S
18	7820	32020	033	PLATE SA240 TP310S 2MM 200 X 840	NO	4	10.616	1-32-020-U0065	00	SA240 TP310S
19	7820	32020	034	PLATE SA240 TP310S 2MM 200 X 735	NO	2	4.646	1-32-020-U0065	00	SA240 TP310S
20	7820	32020	035	PLATE SA240 TP310S 2MM 200 X 830	NO	2	5.246	1-32-020-U0065	00	SA240 TP310S
21	7820	32020	036	PLATE SA240 TP310S 2MM 840 X 1610	NO	3	64.086	1-32-020-U0065	00	SA240 TP310S
22	7820	32020	037	PLATE SA240 TP310S 2MM 750 X 1610	NO	1	19.086	1-32-020-U0065	00	SA240 TP310S
23	7820	32020	038	PLATE SA240 TP310S 2MM 750 X 1610	NO	1	19.086	1-32-020-U0065	00	SA240 TP310S
24	7820	32020	039	PLATE SA240 TP310S 2MM 840 X 840	NO	12	133.776	1-32-020-U0065	00	SA240 TP310S
25	7820	32020	040	PLATE SA240 TP310S 2MM 840 X 664	NO	2	17.626	1-32-020-U0065	00	SA240 TP310S
26	7820	32020	041	PLATE SA240 TP310S 2MM 840 X 681	NO	2	18.076	1-32-020-U0065	00	SA240 TP310S
27	7820	32020	042	PLATE SA240 TP310S 2MM 800 X 697	NO	2	17.620	1-32-020-U0065	00	SA240 TP310S
28	7820	32020	043	PLATE SA240 TP310S 2MM 800 X 840	NO	3	31.854	1-32-020-U0065	00	SA240 TP310S
29	7820	32020	044	PLATE SA240 TP310S 2MM 840 X 714	NO	2	18.952	1-32-020-U0065	00	SA240 TP310S
30	7820	32020	045	PLATE SA240 TP310S 2MM 840 X 731	NO	2	19.404	1-32-020-U0065	00	SA240 TP310S
31	7820	32020	046	PLATE SA240 TP310S 2MM 999 X 750	NO	1	11.838	1-32-020-U0065	00	SA240 TP310S
32	7820	32020	047	PLATE SA240 TP310S 2MM 999 X 750	NO	1	11.838	1-32-020-U0065	00	SA240 TP310S
33	7820	32020	048	PLATE SA240 TP310S 2MM 999 X 840	NO	3	39.777	1-32-020-U0065	00	SA240 TP310S
34	7820	32020	049	PLATE SA240 TP310S 2MM 840 X 200	NO	8	21.232	1-32-020-U0065	00	SA240 TP310S
35	7820	32020	050	PLATE SA240 TP310S 2MM 840 X 200	NO	1	2.654	1-32-020-U0065	00	SA240 TP310S
36	7820	32020	051	PLATE SA240 TP310S 2MM 840 X 200	NO	1	2.654	1-32-020-U0065	00	SA240 TP310S
37	7820	32020	052	PLATE SA240 TP310S 2MM 999 X 200	NO	1	3.157	1-32-020-U0065	00	SA240 TP310S
38	7820	32020	053	PLATE SA240 TP310S 2MM 999 X 200	NO	1	3.157	1-32-020-U0065	00	SA240 TP310S

SL. NO.	S.O. No.	PGMA	DU No.	DU_DESCRIPTION	DU_UNIT	QTY	WEIGHT (KG)	DRG_NUMBER	DRG_REV	MATL. SPECIFICATION
39	7820	32020	054	PLATE SA240 TP310S 2MM 460 X 460	NO	1364	4559.852	1-32-020-U0065	00	SA240 TP310S
40	7820	32020	055	PLATE SA240 TP310S 2MM 214 X 460	NO	66	102.630	1-32-020-U0065	00	SA240 TP310S
41	7820	32020	056	PLATE SA240 TP310S 2MM 400 X 460	NO	34	98.838	1-32-020-U0065	00	SA240 TP310S
42	7820	32020	057	PLATE SA240 TP310S 2MM 214 X 400	NO	2	2.704	1-32-020-U0065	00	SA240 TP310S
43	7820	32020	058	PLATE SA240 TP310S 2MM 200 X 460	NO	34	49.436	1-32-020-U0065	00	SA240 TP310S
44	7820	32020	059	PLATE SA240 TP310S 2MM 200 X 214	NO	2	1.352	1-32-020-U0065	00	SA240 TP310S
45	7820	32020	060	PLATE SA240 TP310S 2MM 370 X 460	NO	60	161.340	1-32-020-U0065	00	SA240 TP310S
46	7820	32020	061	PLATE SA240 TP310S 2MM 264 X 370	NO	4	6.172	1-32-020-U0065	00	SA240 TP310S
47	7820	32020	062	PLATE SA240 TP310S 2MM 264 X 460	NO	16	30.704	1-32-020-U0065	00	SA240 TP310S
48	7820	32020	063	PLATE SA240 TP310S 2MM 200 X 460	NO	60	87.240	1-32-020-U0065	00	SA240 TP310S
49	7820	32020	064	PLATE SA240 TP310S 2MM 200 X 264	NO	4	3.336	1-32-020-U0065	00	SA240 TP310S
50	7820	32020	065	PLATE SA240 TP310S 2MM 700 X 2400	NO	1	26.544	1-32-020-U0065	00	SA240 TP310S
51	7820	32020	066	PLATE SA240 TP310S 2MM 75 X 210	NO	4	0.996	1-32-020-U0065	00	SA240 TP310S
52	7820	32020	067	PLATE SA240 TP310S 2MM 460 X 460	NO	20	66.860	1-32-020-U0065	00	SA240 TP310S

GENERAL TERMS & CONDITIONS**1. TECHNICAL DELIVERY CONDITIONS:**

The work should conform to the technical data given in our drawings, GMS, Shipping List Specifications, QAP, WPS etc.

2. PARTY'S SCOPE:

The scope of the party shall be as follows: -

- a) All welding equipments, baking oven, tools, jigs and fixtures, measuring instruments duly calibrated, handling facilities, testing facilities etc.
- b) All materials other than those mentioned under "Free Issue Materials", which are required for completion of the work.
- c) All consumables such as electrodes, gases, grinding wheels etc.

Note: Electrodes of specification mentioned in the drawings / WPS and of BHEL approved brands only shall be used and MTCs of the same shall be submitted to BHEL for verification before use.

3. REVISION OF DRAWINGS:

There may be minor changes in the drawings during execution. In such a case, party should accommodate the same without any extra claim.

4. WELDING QUALIFICATION: Qualification of required number of Welders is party's responsibility at their cost.**5. X-RAY:**

All welding shall be of X-ray quality where specified on drawings. Inspection would specify the quantum of X-ray based on drawings / code requirement. Party should strictly follow the WPS and QAP issued by BHEL during welding. Getting the welds radiographed and getting them cleared by inspection is the responsibility of the party.

6. RECTIFICATIONS / REJECTIONS:

Any rectification due to defective work, if required, shall be done by the party free of charge with a suitable technology approved before hand by BHEL in writing. The cost of material, if any used for rectification work / rejection work, will be estimated by BHEL and the same shall be debited to party's account. In case any rectification / rework is to be carried out due to defective material supplied by BHEL, the replacement material and consumables will be supplied by BHEL free of Cost.

7. SECURITY DEPOSIT:

Vendors shall have to submit a Bank Guarantee for **10%** of the order value in case of **HPVP ADM site** or **25%** of the material cost in case of Vendor works towards Security Deposit and safe custody of materials within one week from the date of issue of Order. The BG shall be valid for the contract period with a claim period of 12 months. This Bank Guarantee shall be released to the contractor after completion of work and on acceptance of the same by BHEL / Owner

Bidder agrees to submit performance security required for execution of the contract within the time period mentioned above. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT/contract, from the bills along with due interest.

8. PERFORMANCE BANK GUARANTEE:

Vendors shall have to submit Performance Bank Guarantee (claim period of 12 months) for 10% of the order value covering for the defects liability period. If PBG is not submitted, 10% of the order value shall be deducted towards PBG from the final bill and shall be refundable after performance guarantee period, if no defects are found during this period.

9. RAW MATERIALS ISSUE:

Raw materials shall be issued with appropriate processing allowance and invisible wastage over the theoretical requirement of raw materials (**Plates, Sheets, Sections and Pipes**).

10. TRANSFER / RETURN OF LEFT OVER MATERIALS:

Party should maintain proper records for receipt & use of all free issue materials. The left over materials & scrap as per the material accounting statement shall be returned to HPVP stores along with finished job. Material Transfer Vouchers (MTV) from one order to another or from one vendor to another and Material Return Vouchers should be submitted immediately after transfer / return. The material reconciliation statement shall be submitted by the contractor after verification and certification by BHEL along with the final bill **within 30 days from the date of completion of work**. Otherwise, recovery for the balance materials shall be made from any of their pending bills without further intimation.

11. MATERIAL RECONCILIATION:

Orders issued to the vendors have to be completed in all respects including Material Accounting within a maximum of **180 days** from the **date of issue of the first material** from BHEL - HPVP stores.

Maximum of 0.5 % on the requirement of materials (**Plates, Sections and Pipes**) is admitted towards **process allowance and invisible wastage**.

Scrap quantity is permissible up to a **maximum of 1% on Structural (Beams, Channels, Angles, Rods, Pipes etc.), 2% on Sheets, 3% for Plates** on the theoretical requirement of materials.

If wastage and scrap is beyond the above limits, it should be fully justified with cutting diagrams etc. which are to be approved in advance by BHEL. **Otherwise, the cost of raw materials beyond approved limits will be recovered from the contractor as per BHEL recovery rates including applicable taxes & duties.**

Material reconciliation including return of balance materials, off-cuts is to be completed within 20 days from the date of completion of the order. The material reconciliation statement shall be submitted by the contractor after verification and certification by BHEL-HPVP along with the final bill **within 30 days from the date of completion of work**. Otherwise, recovery for the balance materials shall be made from any of their pending bills without further intimation,

Repeated occurrence of inordinate delays in returning and settling the material accounting will entail BHEL the right to terminate the contract forthwith or impose a temporary suspension on further loading at the discretion of BHEL.

12. SCRAP & OFF-CUT NORMS:

Sl. No.	Description	Scrap Size (in mm)	Off-Cut (in MM)
1.	CS/AS Sheets & Plates	Below 500 × 250	500 × 250 & above
2.	Rolled sections Rod, angles etc. (other than -tubes, pipes)	Below 1000	1000 & above
3.	Tubes & Pipes	Below 500	500 & above
4.	Universal column	Below 1000	1000 & Above
5.	SS Sheets & Plates	Below 500 × 250	500 × 250 & above
6.	SS Structural, Rods, Tubes, Pipes	Below 250	250 & above
7.	Non – ferrous: sheets & plates, rods & tubes	Below 500 × 250 (S & PL), Below 250 (Rods & Tubes)	500 × 250 & above, 250 & above
8.	Big size Scrap	(2500 & above) × (150 to 249)	-

13. INSPECTION:

Party shall contact our Quality Control Dept. for stages of inspection before commencement of job and should strictly follow the stages of inspection as per QAP.

14. WORKMANSHIP GUARANTEE:

The vendors should give workmanship guarantee for fabricated items for a period of 18 months from the date of last delivery of the order. Any defects due to incomplete work, faulty workmanship found in the fabricated items after delivery during the defects liability period shall be rectified / replaced by the vendor free of cost. Otherwise, the expenditure incurred towards the same will be recovered from the pending bills of vendors.

15. WORK PROGRESS:

The fabricator shall furnish a weekly report on the progress of work along with the status of availability of free issue materials and requirement of further materials, if any.

Outsourcing dept. personnel will visit vendor's works from time to time to assess and review the work progress. Free access shall be provided to BHEL or its inspection agency at all reasonable times of the day / night.

In case the progress is not satisfactory or supplies are delayed abnormally beyond the contractual delivery date, BHEL-HPVP, Visakhapatnam reserves the right to cancel the order in part or full or get the balance job in as is where is condition completed elsewhere by another agency at the risk and cost of Fabricator. The value of the work carried out by the party will be assessed by BHEL and the same shall be final. No compensation will be given to the fabricator in case of cancellation of order or diversion of balance job even if the jobs have been processed partly.

16. DELIVERY:

Finished items should be handed over to BHEL-HPVP on party's delivery challans along with Job completion certificate / Final Inspection Report from inspection agency / HPVP-QC department.

17. PENALTY:

If delivery exceeds the stipulated delivery schedule, penalty 1/2 % of the total value of order per week or part thereof subject to a maximum of 10% on the total value of the order will be levied. However, time taken for the following will not be considered as delay on the part of the Sub-Contractor.

- 1) Intermediate operations, if any, carried out by BHEL.
- 2) Waiting time for BHEL / Third party Inspection beyond a normal time of 3 days.

18. PAYMENT TERMS:

Payment shall be made against RA Bills within 45 days from the date of submission of Bill.

90% payment will be made after handing over of the finished equipments along with all inspection documents to HPVP shops / Logistics dept. / ADM site / Lova Garden site, duly inspected & cleared by Inspection authority. Balance 10% payment shall be made along with the Final Bill against completion of total order in all respects including documentation.

Vendors shall have to submit the bills in the formats specified by HPVP-Outsourcing and the bills submitted in the specified format along with necessary supporting documents are only admitted for processing. The following documents shall be submitted along with the Final Bill: -

1. No Claim Certificate from the contractor
2. No Dues Certificate from BHEL
3. Work Completion Certificate from BHEL
4. Material Reconciliation Statement submitted by the Contractor and certified by concerned authority of BHEL (if applicable)
5. Workmanship Guarantee certificate from the contractor

19. SECRECY:

All the documents of BHEL inclusive of Drawings, GMS and Standards made available to the fabricator should be kept in strict confidence and under no circumstance be made available to others or allow others to make use of them. Such documents shall be returned to BHEL on demand after completion of the job. This secrecy clause is binding on the employees of the fabricators also. Violation of the same may lead to suspension of business with the vendor and necessary legal action.

20. SUB-LETTING:

In general, sub-letting of jobs will not be permitted. But in special circumstances, this may be allowed. In such case, the party should obtain written approval from BHEL-HPVP, Visakhapatnam before sub-letting.

21. FACTORY RULES AND REGULATIONS:

Party shall abide by all the rules and statutory regulations in force from time to time as per factories act. It shall be party's responsibility to ensure the safety of their workmen and fulfilling the ESI, PF and other relevant statutory regulations.

22. SAFETY:

- a) Contractor shall adhere to safe construction practices, guard against hazardous & unsafe working conditions and shall comply with the safety rules of BHEL and local authorities. He shall maintain First Aid facilities for all his employees and labour. Contractor's responsibility includes supply of welder kit, all safety items such as safety belts, white and colour glasses, goggles, safety helmets, safety shoes etc.
- b) *Contractor and his employees shall follow all fire & safety, security regulations of BHEL.*

23. HOUSE KEEPING:

During execution of work, the contractor at all times keep the working place and storage area clean and free from accumulation of waste materials, rubbish etc.,

24. ACCIDENT / DAMAGE / CONDUCT ETC.:

Contractor will be held responsible for any disorderly conduct / misconduct, indiscipline, theft, smoking etc., on the part of his men. He will ensure summary eviction of such men from his premises failing which BHEL would remove them from the factory on his responsibility. Any damage to and or loss of equipment, machinery, building etc., to BHEL or BHEL employees, visitors or other contractors resulting from his own or any of his men's negligence shall be liable to be made good by him. Contractor shall be solely responsible for any accident in which you or your men or your equipment may be involved during the execution of contract on account of any reason what so ever.

25. TERMINATION OF CONTRACT:

In the event of any failure on the part of the contractor, BHEL reserves the right to terminate the contract by giving a notice of 2 weeks for any of the following lapses and contractual violations: -

- a) Failure to make labour payments in time as per the rules
- b) Failure to progress the job according to the agreed schedule
- c) Failure to mobilize adequate man power, tools & tackles and consumables in time
- d) Failure to adhere to Quality Standards of BHEL
- e) Refused to co-operate with other agencies working in the same area
- f) Failure to resolve labour disputes like strikes etc., within 7 days of occurrence
- g) Failure to comply with statutory regulations applicable at BHEL

BHEL shall also be free to intervene and take necessary remedial measures. All costs incurred with interest and overheads shall be recovered from contractor by such foreclosing or off-loading any part of the contract work.

26. DISPUTES:

Head of BHEL- HPVP Unit will be the final authority for any disputes arising out of this contract. The disputes / arbitration / settlement of contractual or legal issues shall be under the Jurisdiction of Visakhapatnam Court.

- 27.** For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of Contract / PO / WO against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

- 28.** 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.

Signature of the Bidder with Stamp

Acceptance to Tender Terms & Conditions

I / We hereby confirm that the Tender documents, Drawings, Quality documents etc. have been studied in detail and we have fully understood the scope of work.

I / We accept to all the Terms and Conditions of the Tender Enquiry and the prices quoted are in accordance with the same.

I / We give our acceptance to participate in reverse auction for this tender.

Tender documents duly signed on all the pages by the Owner / authorized representative of the bidder are attached herewith.

Signature of the Bidder with Stamp

BUSINESS RULES FOR REVERSE AUCTION (RA)

This has reference to tender no. **OS/21-22/7820/Clad_Sheet/12/016, dated 24.09.2021**. BHEL shall finalize the Rates for **Fabrication of SS Cladding Sheets against S.O. No. 7820 at Vendor works with Free issue materials** through Reverse Auction mode. BHEL has made arrangement with an authorized Service provider (details will be shared before reverse auction) for conducting RA. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. **OS/21-22/7820/Clad_Sheet/12/016, dated 24.09.2021**, (b) Bidders' technical & commercial bid (in case of two-part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

1. Procedure of Reverse Auctioning:

- i) Price bids of all techno-commercially qualified bidders shall be opened.
- ii) **Reverse Auction:** The 'bid decrement' will be decided by BHEL.
- iii) The lowest bidder in sealed envelope price bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.
- iv) Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process. However, no bidder shall be allowed to lower its bid below the current L1 by more than 5 decrements at one go.
- v) After the completion of the reverse auction, the Closing Price shall be available for further processing.
- vi) Wherever the evaluation is done on total cost basis, after Reverse Auction, prices of individual line items shall be reduced on pro-rata basis.

2. Schedule for reverse auction: The Reverse Auction schedule will be intimated to the eligible techno-commercially qualified bidders at a later stage.**3. Auction extension time:** If a bidder places a bid in the last {...} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {...} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place only if a bid comes in those last {...} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last {...} minutes. In case, there is no bid in the last {...} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

The above process will continue till completion of Reverse Auction.

Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to M/s. {Service provider} with a copy to BHEL within 15 minutes prior to initial closing time of Reverse Auction.

4. Bid price: The Bidder has to quote the {.....} Price inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, taxes, duties, freight and insurance as specified in tender document including loading (if indicated by BHEL due to deviations in technical/ commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).**5. Bidding currency and unit of measurement:** Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications mentioned in the tender.

In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.

6. **Validity of bids:** Price shall be valid for 3 months from the date of reverse auction. These shall not be subjected to any change whatsoever.
7. **Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Reverse Auction will be considered as the bidder's final offer to execute the work.
8. Unique user IDs shall be used by bidders during bidding process. All bids made from the Login ID given to the bidders will be deemed to have been made by the bidders/ bidders' company.
9. **Post auction procedure:** BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.
10. Any commercial/ technical loading shall be separately intimated to respective bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during Reverse Auction.
Modalities of loading & de-loading shall be separately intimated to the bidders. The responsibility for correctness of total cost to BHEL shall lie with the bidders.
11. Reverse auction shall be conducted by BHEL (through M/s {Service Provider}), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional 15 minutes will be given by the service provider provided such requests come before 5 minutes of auction closing time. However, only one such request per bidder can be entertained.

In order to ward-off contingent situation of connectivity failure bidders are requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor M/s. {Service provider} is responsible for such eventualities.

12. **Proxy bids:** Proxy bidding feature is a pro-bidder feature to safe guard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid.

Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant.

In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price.

Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

13. Bidders are advised to get fully trained and clear all their doubts such as refreshing of Screen, quantity being auctioned, tender value being auctioned etc. from M/s. {Service provider}.

14. M/s. {Service provider}, shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. M/s. {Service provider}, shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions/ modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.
15. Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure – VI) for price breakup, quoted during the Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to M/s. {Service provider} besides BHEL within two working days of Auction without fail.
16. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
17. Bidders' bid will be taken as an offer to execute the work/ supplies the item as per enquiry no. **OS/21-22/7820/Clad_Sheet/12/016, dated 24.09.2021**. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
18. Bidders shall be able to view the following on their screen along with the necessary fields during Reverse Auction:
 - a. Leading (Running Lowest) Bid in the Auction (only total price of package)
 - b. Bid Placed by the bidder
 - c. Start Price
 - d. Decrement value
 - e. Rank of their own bid during bidding as well as at the close of auction.
19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of M/s. {Service provider}, the terms & conditions given in this business document will supersede the information contained in the FAQs. Any changes made by BHEL/ service provider (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time.
24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on www.bhel.com), shall be initiated by BHEL.

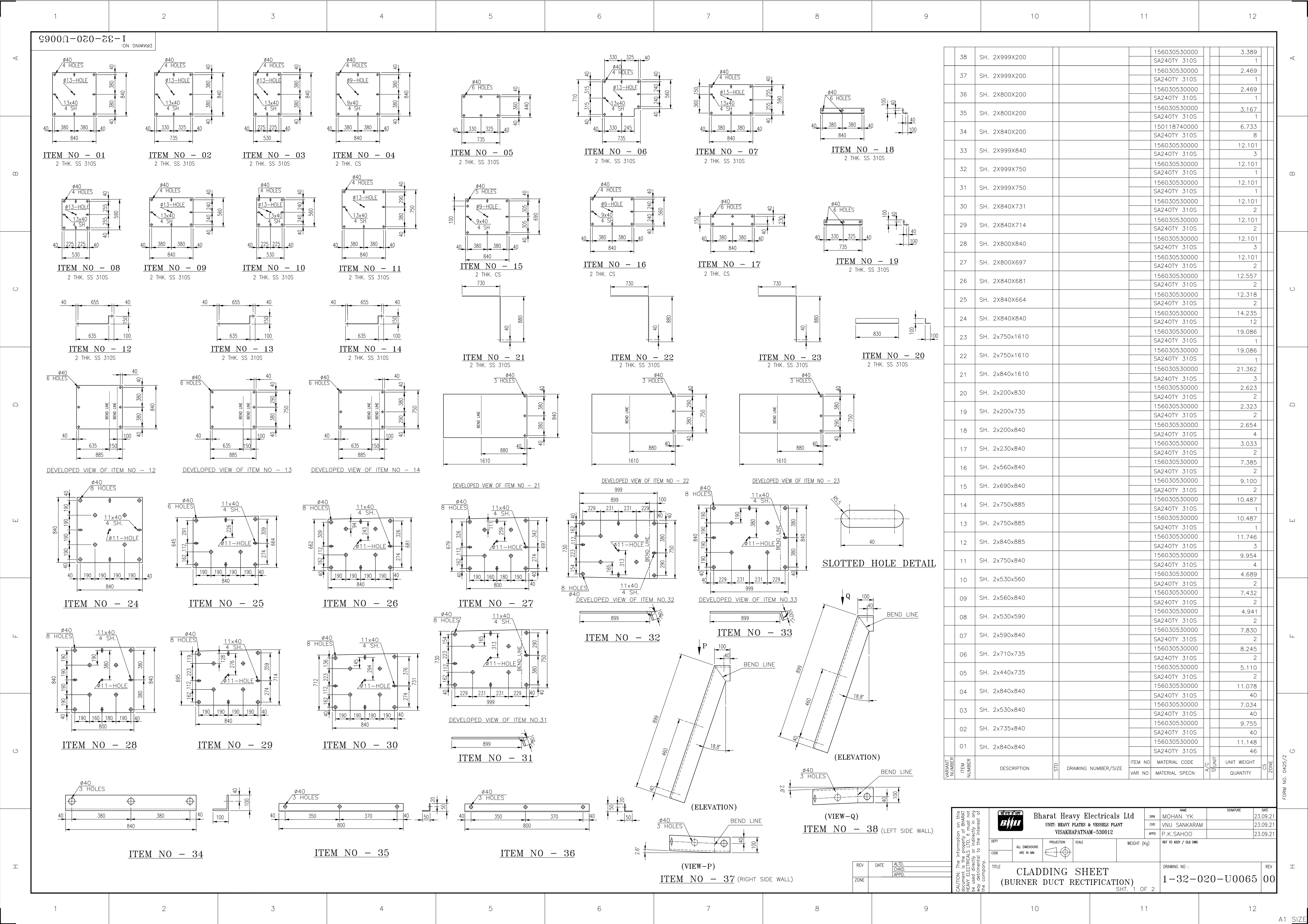
Signature of the Bidder with Stamp

GST COMPLIANCE FOR INDIGENOUS SUPPLIERS

1. In Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GSTIN which should be clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.
2. Supplier shall mention their GSTIN in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.
3. All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).
4. A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL.
5. All documents like Test Certificate, LR copy, Guarantee/Warranty certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment where ever applicable. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so.
6. In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the suppliers, within the calendar month notified by BHEL.
7. For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills.
8. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.
9. This is to inform that GST portion of invoice, shall be released only upon Vendor declaring such invoice in his GSTR-1 and receipt of goods and Tax invoice by BHEL and Confirmation of payment of GST thereon by vendor on GSTN portal. Alternatively, BG of appropriate value may be obtained from vendor which shall be valid At least one month after the confirmation of date of payment of GST by vendor on GSTN portal and receipt of Tax invoice and receipt of goods, whichever is later. Above is subject to receipt of goods/service and tax invoice thereof along with vendor declaring invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL.
10. That in case vendor delays Declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied/ leviable on BHEL.

Note: The above will be followed strictly for processing vendor payments to ensure GST Compliance.

Signature of the Bidder with Stamp



38	SH. 2X999X200		156030530000	3.389	
			SA240TY 310S	1	
37	SH. 2X999X200		156030530000	2.469	
			SA240TY 310S	1	
36	SH. 2X800X200		156030530000	2.469	
			SA240TY 310S	1	
35	SH. 2X800X200		156030530000	3.167	
			SA240TY 310S	1	
34	SH. 2X840X200		150118740000	6.733	
			SA240TY 310S	8	
33	SH. 2X999X840		156030530000	12.101	
			SA240TY 310S	3	
32	SH. 2X999X750		156030530000	12.101	
			SA240TY 310S	1	
31	SH. 2X999X750		156030530000	12.101	
			SA240TY 310S	1	
30	SH. 2X840X731		156030530000	12.101	
			SA240TY 310S	2	
29	SH. 2X840X714		156030530000	12.101	
			SA240TY 310S	2	
28	SH. 2X800X840		156030530000	12.101	
			SA240TY 310S	3	
27	SH. 2X800X697		156030530000	12.101	
			SA240TY 310S	2	
26	SH. 2X840X681		156030530000	12.557	
			SA240TY 310S	2	
25	SH. 2X840X664		156030530000	12.318	
			SA240TY 310S	2	
24	SH. 2X840X840		156030530000	14.235	
			SA240TY 310S	12	
23	SH. 2X750X1610		156030530000	19.086	
			SA240TY 310S	1	
22	SH. 2X750X1610		156030530000	19.086	
			SA240TY 310S	1	
21	SH. 2X840X1610		156030530000	21.362	
			SA240TY 310S	3	
20	SH. 2X200X830		156030530000	2.623	
			SA240TY 310S	2	
19	SH. 2X200X735		156030530000	2.323	
			SA240TY 310S	2	
18	SH. 2X200X840		156030530000	2.654	
			SA240TY 310S	4	
17	SH. 2X230X840		156030530000	3.033	
			SA240TY 310S	2	
16	SH. 2X560X840		156030530000	7.385	
			SA240TY 310S	2	
15	SH. 2X690X840		156030530000	9.100	
			SA240TY 310S	2	
14	SH. 2X750X885		156030530000	10.487	
			SA240TY 310S	1	
13	SH. 2X750X885		156030530000	10.487	
			SA240TY 310S	1	
12	SH. 2X840X885		156030530000	11.746	
			SA240TY 310S	3	
11	SH. 2X750X840		156030530000	9.954	
			SA240TY 310S	4	
10	SH. 2X530X560		156030530000	4.689	
			SA240TY 310S	2	
09	SH. 2X560X840		156030530000	7.432	
			SA240TY 310S	2	
08	SH. 2X530X590		156030530000	4.941	
			SA240TY 310S	2	
07	SH. 2X590X840		156030530000	7.830	
			SA240TY 310S	2	
06	SH. 2X710X735		156030530000	8.245	
			SA240TY 310S	2	
05	SH. 2X440X735		156030530000	5.110	
			SA240TY 310S	2	
04	SH. 2X840X840		156030530000	11.078	
			SA240TY 310S	40	
03	SH. 2X530X840		156030530000	7.034	
			SA240TY 310S	40	
02	SH. 2X735X840		156030530000	9.755	
			SA240TY 310S	40	
01	SH. 2X840X840		156030530000	11.148	
			SA240TY 310S	46	

CAUTION: The information on this document is the property of Bharat Heavy Electricals Ltd. It is to be used directly or indirectly in any way detrimental to the interest of the company.		Bharat Heavy Electricals Ltd UNIT: HEAVY PLATES & VESSELS PLANT VISAKHAPATNAM-530012		DRN MOHAN YK 23.09.21	NAME MOHAN YK 23.09.21	SIGNATURE P.K.SAHOO 23.09.21	DATE 23.09.21
DEPT CODE	ALL DIMENSIONS ARE IN MM	PROJECTION SCALE	WEIGHT (kg)	REF TO ASST / OLD DWG		REV TO ASST / OLD DWG	
TITLE CLADDING SHEET (BURNER DUCT RECTIFICATION)				DRAWING NO : 1-32-020-U0065		REV 00	
SHT. 1 OF 2							

FORM NO. 0425/2

A

B

C

D

E

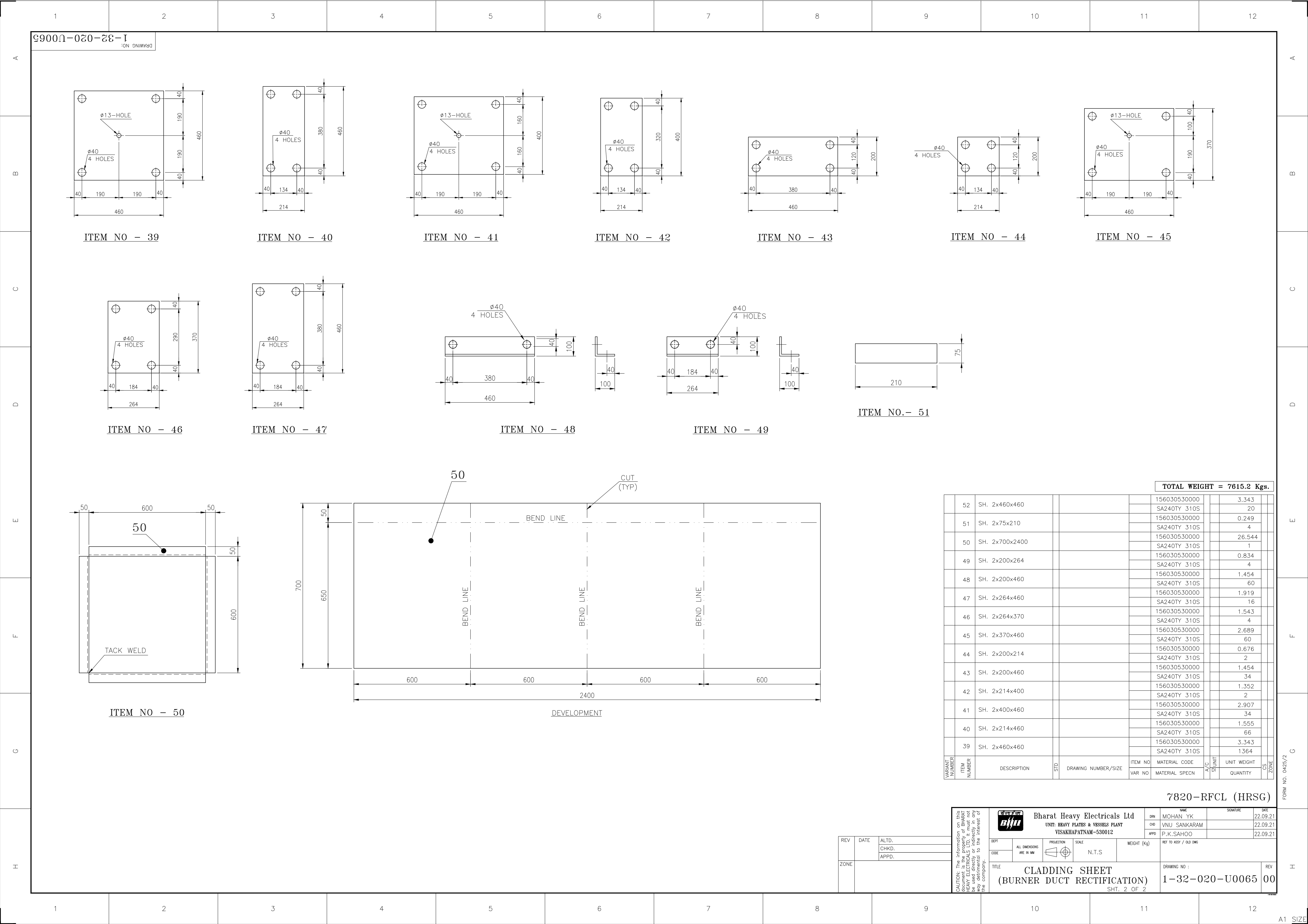
F

G

H

I

A1 SIZE



9900U-020-23-I
DRAWING NO. 1

ITEM NO - 39

ITEM NO - 40

ITEM NO - 41

ITEM NO - 42

ITEM NO - 43

ITEM NO - 44

ITEM NO - 45

ITEM NO - 46

ITEM NO - 47

ITEM NO - 48

ITEM NO - 49

ITEM NO.- 51

ITEM NO - 50

TOTAL WEIGHT = 7615.2 Kgs.

52	SH. 2x460x460				156030530000		3.343				
					SA240TY 310S		20				
51	SH. 2x75x210				156030530000		0.249				
					SA240TY 310S		4				
50	SH. 2x700x2400				156030530000		26.544				
					SA240TY 310S		1				
49	SH. 2x200x264				156030530000		0.834				
					SA240TY 310S		4				
48	SH. 2x200x460				156030530000		1.454				
					SA240TY 310S		60				
47	SH. 2x264x460				156030530000		1.919				
					SA240TY 310S		16				
46	SH. 2x264x370				156030530000		1.543				
					SA240TY 310S		4				
45	SH. 2x370x460				156030530000		2.689				
					SA240TY 310S		60				
44	SH. 2x200x214				156030530000		0.676				
					SA240TY 310S		2				
43	SH. 2x200x460				156030530000		1.454				
					SA240TY 310S		34				
42	SH. 2x214x400				156030530000		1.352				
					SA240TY 310S		2				
41	SH. 2x400x460				156030530000		2.907				
					SA240TY 310S		34				
40	SH. 2x214x460				156030530000		1.555				
					SA240TY 310S		66				
39	SH. 2x460x460				156030530000		3.343				
					SA240TY 310S		1364				
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER/SIZE	ITEM NO	MATERIAL CODE	A/C	UNIT	UNIT WEIGHT	CS	ZONE
					VAR NO	MATERIAL SPECN			QUANTITY		

7820-RFCL (HRSG)

REV	DATE	ALTD.
		CHKD.
		APPD.
ZONE		

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REPT CODE

ALL DIMENSIONS ARE IN MM

PROJECTION

SCALE

WEIGHT (Kg)

TITLE

CLADDING SHEET (BURNER DUCT RECTIFICATION)

SHT. 2 OF 2

Bharat Heavy Electricals Ltd

UNIT: HEAVY PLATES & VESSELS PLANT

VISAKHAPATNAM-530012

NAME

MOHAN YK

SIGNATURE

22.09.21

CHD

VNU SANKARAM

22.09.21

APD

P.K.SAHOO

22.09.21

DRAWING NO :

1-32-020-U0065

REV

00