



Chhattisgarh State Renewable Energy Development Agency (CREDA)

(Dept. of Energy, Govt. of Chhattisgarh)

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TENDER DOCUMENT No. 162512/CREDA/REPAIR AND MAINTENANCE/2024-25 Dated: 06-12-2024

E-Tender for standardization of Rates for supply and installation for replacement of Submersible/Surface Pumps (AC/DC), Controller, USPC of various capacities and make, HDPE pipe, Solar Module, Module Mounting Structure, and other BOS of solar irrigation pump installed under various phases of "SAUR SUJLA SCHEME" in the state of Chhattisgarh.

Particulars	From Date & Time	To Date & Time	Place
Date of issue of notice inviting bid	06.12.2024 05:00 PM	---	----
Period of availability of bidding document at website	06.12.2024 05:00 PM	06.01.2025 05:00 PM	http://www.creda.co.in/tenders
Submission of pre bid queries in writing or through E-mail	06.12.2024 05:00 PM	13.12.2024 05:00 PM	At H.O. CREDA, Raipur (C.G.) RE-IV, Section or by E-mail : credatendercell@gmail.com
Submission of Online Bid (Technical + e-Price Bid) and Submission of Documents in hard copy	06.12.2024 05:00 PM	06.01.2025 05:00 PM	https://eproc.cgstate.gov.in and at H.O. CREDA Raipur (C.G.), RE-IV, Section
Online Opening of Technical Bid	07.01.2025 12:00 PM Onwards		At CREDA H.O., Raipur (C.G.) Conference Hall, Raipur. (https://eproc.cgstate.gov.in)
Evaluation of technical bid and Declaration of Eligible bidders (Bidders who are technically & financially qualified)	08.01.2024 12:00 PM Onwards		At Conference Hall, CREDA H.O., Raipur (C.G.)
Online Opening of e- Price Bid	10.01.2024 12:00 PM Onwards		At Conference Hall, CREDA H.O., Raipur (C.G.)

Tender Document Cost- Rs.5,000.00 + 18% GST = Rs.5,900.00 (In words Rupees Five Thousand Nine Hundred Only)

E.M.D.- Rs.1,50,000.00 (In words Rupees One Lakh Fifty Thousand Only) for all bidders to be deposited in CREDA's account via Demand Draft/ Pay Order or RTGS / NEFT.

Document can also be downloaded from our website www.creda.co.in with the cost of tender as mentioned in NIT, which shall have to be deposited along with the tender document.

CHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY CONTENTS

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NOTICE INVITING TENDER

CREDA Invites Online Tender for standardization of rates for supply and installation for replacement of submersible/Surface Pumps (AC/DC), Controller, USPC of various capacities and make, HDPE pipe, Solar Module, Module Mounting Structure, and other BOS for solar irrigation pump installed under various phases of "SAUR SUJLA SCHEME" in the state of Chhattisgarh from registered Vendors/manufacturer or its authorized dealer in CREDA with 03 years track record in the solar pumping sector as per following details -

S.No	Item Description	Cost of Tender Document	EMD	Essentials
01	Supply and installation of submersible/surface pumps (AC/DC) controllers and USPC of various capacities and make, HDPE pipe, Solar module, Module Mounting Structure, and other necessary BOS for repairing of solar irrigation pumps in the various phases of SAUR SUJLA SCHEME in the State of Chhattisgarh	Rs.5000+18%GST =Rs.5900	Rs.1,50,000.00	As per section -01" Eligibility Criteria" clause1(a) to 1(g)
TOTAL		Rs.5,900.00	Rs.1,50,000.00	----

The quantity of work and purchase under above may vary as per actual site conditions & proposal received from field offices of CREDA.

Important Events and time schedule for this tender are as follows-

Particulars	From Date & Time	To Date & Time	Place
Date of issue of notice inviting bid	06.12.2024 05:00 PM	---	----
Period of availability of bidding document at website	06.12.2024 05:00 PM	06.01.2025 05:00 PM	http://www.creda.co.in/tenders
Submission of pre bid queries in writing or through E-mail	06.12.2024 05:00 PM	13.12.2024 05:00 PM	At H.O. CREDA, Raipur (C.G.) RE-IV, Section or by E-mail : credatendercell@gmail.com
Submission of Online Bid (Technical + e-Price Bid) and Submission of Documents in hard copy	06.12.2024 05:00 PM	06.01.2025 05:00 PM	https://eproc.cgstate.gov.in and at H.O. CREDA Raipur (C.G.), RE-V, Section
Online Opening of Technical Bid	07.01.2025 12:00 PM Onwards		At CREDA H.O., Raipur (C.G.) Conference Hall, Raipur. (https://eproc.cgstate.gov.in)
Evaluation of technical bid and Declaration of Eligible bidders (Bidders who are technically & financially qualified)	08.01.2024 12:00 PM Onwards		At Conference Hall, CREDA H.O., Raipur (C.G.)
Online Opening of e- Price Bid	10.01.2024 12:00 PM Onwards		At Conference Hall, CREDA H.O., Raipur(C.G.)

Technical Bid and Price Bid shall be submitted online only at <https://www.eproc.cgstate.gov.in>. However Technical Bid (as per the checklist) also has to be submitted in hard copy duly signed by bidder at H.O. Tender Cell, CREDA. If there is any discrepancy in the e-Bid and hard copy, only the e-bid shall be valid. **In no case the hard copy of documents shall be evaluated, it is only for record keeping of CREDA.** Bidders are advised to follow the instructions provided for registration and e-Submission process accordingly.

(For any query about e-bidding please visit user manual at <https://www.eproc.cgstate.gov.in>) Details of this tender are mentioned at Tender Documents which can be downloaded from our website www.creda.co.in.

The Bidder shall have to deposit tender document cost along with EMD as mentioned above through demand draft/RTGS/NEFT payable to CREDA Raipur while submitting tender.

Bidders are requested to submit their suggestions/objections/reservations, if any with details so as to avoid any confusion and to ensure clarity and transparency regarding the tender in writing or by e-mail.

Any Addendum/Corrigendum/Amendment Notice, if needed, shall be uploaded on CREDA's Website.

CREDA reserves all rights to accept/reject any or all tenders in full/part without assigning any reasons thereof.

**Executive Engineer
Tender Cell,
H.O. CREDA, Raipur (CG)**

CHECK LIST OF DOCUMENTS TO BE UPLOADED IN THE E-BIDDING PORTAL

To ensure that your Bid uploaded on the Chhattisgarh e-Procurement portal i.e. <https://eproc.cgstate.gov.in> is complete in all respects, please go through the following checklist & tick mark for the enclosures attached with your Bid –

Sl. No.	Envelope	Description of documents to be uploaded in the e-bidding portal	Complied (Yes/ No)	(Page No.)
1	A. Pre-Qualification	EMD and Tender Document Fee submission form of the bidder confirmed by CREDA. (as on page – 6)		
2		Scanned Copy of Undertaking of the Bidder as mentioned on Page – 7 of the tender document on the letter head of bidder.		
3		Scanned copy of original tender document duly signed & with stamp on each page, as a confirmation of acceptance of the Terms & Conditions (T&C).		
4		PAN, GSTIN issued in the name of the bidder.		
5		Self-certificate from Bidder for not been debarred/ blacklisted from any Government organization.		
6		Declaration of conflict of interest - by bidder about any relatives working/not working with CREDA along with notarized Affidavit. (Annexure I) (Hard Copy to be submitted as per Clause 29, Section – 2)		
7		Copy of Registration Certificate as Vendor/manufacturer or its authorized dealer of CREDA valid at the time of submission of bid.		
8	B. Technical and Financial	Attested copy of Original Net Worth Certificate duly signed by Chartered Accountant as on 31st March 2023/2024.		
9		Attested copy of Original Turn Over certificate in three years out of last five financial year i.e. 2018-19, 2019-20, 2020-21, 2021-22, 2022-23		
10		Copy of ITRs for in last 03 financial years i.e. 2021-22, 2022-23 & 2023-24 of the Bidder.		
11		Three Years experience Certificates in the solar pumping sector as per tender terms and conditions		
12		Valid Test Report issued by the National Institute of Solar Energy and any other lab accredited by NABL or any Govt or Manufacture Authorization certificates of SPV Module/Pump/Controller/USPC/BOS		
13		Certified copy from the District Office of CREDA, along with photographs of the installed USPCs as proof.		
14		Technical Data Sheet for each component showing full technical details.		
15	C	Supporting Document for Price Bid mentioned at Page No. 36-38 (to be uploaded in Excel format only)		

Details of EMD and Tender fee attached

Tender No. and Date	
Name of the Bidder	
Bidder's Bank Account Details	
(i) Name of the bank	
(ii) Branch	
(iii) IFS Code	
(iv) Account No.	
(v) Transaction reference number	EMD - _____; Bid Document Fee - _____
(vi) Date of transaction	EMD - _____; Bid Document Fee - _____
(vii) EMD	Rs..... /- In Words (Rs.....)
(viii) Bid Document Fee	Rs..... /- In Words (Rs.....)

Name	CREDA
Bank & Branch Name	ICICI Bank, Panchpedi Naka, Raipur
Bank Account Number	134601000400
Branch IFS Code	ICIC0001346

(Sign & Seal of the bidder)

***NOTE -**

1. The EMD and the Tender Document Fee shall have to be deposited as mentioned in the NIT in CREDA's bank account (amount mentioned above). Bidder shall have to upload the transaction details as above or a scanned copy of the DD (if transaction is done through DD)
2. In case the transaction is done through DD, the original DD has to be submitted in envelope A as per Clause 6(d).

UNDERTAKING OF THE BIDDER

(To be submitted on letter head)

I/We have read carefully and examined the notice inviting tender, schedule, General Rules and terms and conditions of the contract, special conditions, Schedule of Rates and other documents and Rules referred to in the tender document for the supply.

I/We hereby tender my rates for the execution of the work for CREDA as specified within the time stipulated in the schedule in accordance with all aspects with the specifications, designs, drawings and instructions with such conditions so far as applicable.

I/We agree to keep the tender valid for **One Hundred Eighty (180) days** from the due date of submission thereof and not to make any modifications in its terms and conditions.

A sum of **Rs. One Lakh Fifty Thousand** is hereby forwarded as **Earnest Money** in the form of crossed Demand draft/Pay order or RTGS / NEFT payable to CREDA at Raipur (C.G.). If I/We fail to commence or complete the sanction ordered in specified time or fail to fulfil the any condition of tender document, I/We agree that the CREDA shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. The said Earnest Money shall be retained by CREDA towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.

I/We hereby declare that I/We shall treat the tender documents, specifications and other records connected with the work as secret/confidential and shall not communicate information derived there from to any person other than a person to whom I/We have authorized to communicate the same or use the information in any manner prejudicial to the safety of CREDA/Government.

I/We shall abide to all the laws and shall be responsible for making payments of all the taxes, duties, levies and other Govt. dues etc. to the appropriate Govt. departments.

Our GST Registration No._____. The PAN No. under the Income Tax Act is _____. The GST Clearance certificate is attached herewith.

I/We shall be responsible for the payment of the respective taxes to the appropriate authorities and should I/we fail to do so, I/we hereby authorize CREDA to recover the taxes due from us and deposit the same with the appropriate authorities on their demand.

I/We declare that none of our relatives is working in CREDA either on Regular/Contract/Placement basis or I/We don't have any partnership/ subcontract obligation with any employee working in CREDA at present, directly or indirectly, and we will not enter in such obligation in future also. If any breach of declaration is found, then we shall be responsible for our debarment and any other action taken by CREDA.

Dated:

Signature

Place:

Name of bidder with seal.....

Witness:

Signature:

Name:

Postal Address:

SECTION - 1 INSTRUCTIONS FOR BIDDERS

1. ELIGIBILITY CRITERIA:

a. MINIMUM EXPERIENCE

Bidders should have minimum three years out of last five financial years i.e. 2019-20, 2020-21, 2021-22, 2022-23 & 2023-24 experience in solar pumping sector.

b. Experience Certificates submitted should be in a proper format and **shall be considered only in-case of submitted in Hindi / English Language only**. Work order, L.O.I. / L.O.A etc., will not be acceptable.

c. Bidders must have a Positive Net worth as on **31st March 2023/2024 (which is defined as "Net value of the Assets minus (-) Net value of liabilities")**. They shall have to submit a attested copy of **Original Certificate** duly signed by a qualified and registered Chartered Accountant having UDI number as a proof. Produced certificate must tally with the audited balance sheet/CA certificate.

d. Bidders should have an aggregate turnover of minimum **3.00 Crores** in three year out of last five financial years i.e. 2019-20, 2020-21, 2021-22, 2022-23 & 2023-24 under solar pumping sector. Attested copy of certified copies of the annual returns and audited balance sheet submitted to the Registrar of Companies/ Income Tax Authorities should be enclosed. For the preceding years, an **Original Summarized Sheet** of turnover certified by registered CA must be enclosed.

e. Bidder should be a registered vendor/manufacturer or its authorized dealer in CREDA with minimum three years track record in pumping sector.

f. Bidders who are debarred from business by Govt. /Govt. Agency in any state would not be eligible to participate in this bid. A self-declaration should be submitted by the bidder to this effect, failing which bid shall be rejected.

g. Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- (I) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
- (II) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion litigation history, or financial failures etc; and/or
- (III) Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to CREDA.

2. BIDDING PROCESS –

For ease of accessing the e-bidding website and registration the following is to be done by bidder –

a. Visit <https://eproc.cgstate.gov.in>

b. Prospective bidders are requested to download, read and understand the Manuals present on the website so as to clearly understand the bid submission process.

c. The user will be directed to e-bidding page where all information regarding registration is available along with helpline details.

d. Technical bid and Price Bid shall be submitted online only at <https://eproc.cgstate.gov.in> latest by 05:00 PM on 06.01.2025 Bids submitted after scheduled time and date shall not be considered.

3. EMD -

- a. Earnest Money Deposit of Rs. One Lakh Fifty Thousand submitted in the form of Demand Draft/Pay Order or RTGS/NEFT as mentioned in the NIT vide no. 13966/CREDA/REPAIR AND MAINTENANCE/2024-25 Date: 06.12.2024, EMD submitted in any other form e.g. **Cash/Bank Guarantee/FDR /TDR etc. shall not be accepted.**
- b. The EMD shall be released to the bidder only after the expiry of tender.

4. SUBMISSION OF DOCUMENTS -

- a. All the documents including technical and financial Bid should be submitted online on Chhattisgarh e-Procurement portal <https://eproc.cgstate.gov.in> as per the items mentioned in the Checklist on page no. 05 in this bid.
- b. Bidders are advised to finish all the bidding portal related activities such as registration, USB certificate/token approval, and payments etc. well in advance so as to avoid last minute difficulties during the bid submission.
- c. Bidders are also advised to make them fully aware with the bid submission mechanism to avoid last minute hassles and doubts during bid submission. CREDA shall only entertain genuine technical issues/glitches, provided that the bidder submits evidence regarding the same.
- d. Additionally, the bidders shall also have to submit all the documents, in hard copy, as required in this bid as per the checklist on page 05 on 01-04-2024 by 05:00 P.M at Head Office, CREDA. Bidders shall have to submit only the documents as per the checklist in the following envelopes:
 - Envelope A – Pre Qualification Documents (original DD should be submitted in this envelope)
 - Envelope B –Financial Qualification Documents.
 - Envelope C –Technical Qualification Documents.

Note: The envelopes mentioned above is only for hard copy submission and not to be confused with the envelope mentioned in checklist on Page no. 5. The documents submitted in hard copy (offline) to CREDA Head Office must match with those submitted in the Chhattisgarh e-Procurement portal. Any document other than the uploaded document shall not be considered. CREDA's tender committee will only evaluate the documents submitted on Chhattisgarh e-Procurement portal. In no case the hard copy of documents shall be evaluated, they are only for record keeping by CREDA.

5. SPECIFICATION AMENDMENTS -

- a. The specifications of SPV Modules, Pumps, Pump Controller, USPC, Structures, and other BOS, etc. should be as per the original tender floated and finalized in various phases of Saur Sujla Scheme as mentioned in section-03. Other Items shall be as per specifications attached in this tender document. If any amendments are issued by CREDA in due course of time, in this context, then those shall be applicable under this bid.
- b. CREDA reserves the right to amend or change minor specifications of the entire or any component of SPV irrigation pumping system even after the issuance of work order as per the site conditions and demand.

6. GST & PAN -

Bidder shall have to submit copies of GST registration number and PAN numbers issued by the appropriate authority.

7. THE BID -

- a. The Pre-Qualification, Technical-Financial Qualification Documents and Price Bid, other related documents must be uploaded in the portal i.e. <https://eproc.cgstate.gov.in> from 06.12.2024, 05:00 PM onwards till 06.01.2025, up to 05:00 PM.
- b. Nobody is authorized to receive or grant receipt for Bid delivered on behalf of CREDA. Bid received through any other mode shall not be considered and shall be rejected.

8. ANALYSIS OF RATE AND EVALUATION OF BID -

- a. Bidder should quote their rates considering variation of site conditions and all other factors in price of different components and keeping the quantum and quality of work in mind.
- b. The L-1 Rate for each category of items will be considered as final rate however the CREDA has liberty to negotiate with the L-1 bidder in case ALR (Abnormally Low Rate) and AHR (Abnormally High Rate).

9. REGISTRATION OF BIDDER -

Bids shall be rejected of all those bidders who are not registered as system integrator/vendor/manufacture or its authorized dealer/distributor with CREDA on or before the date of submission of bid.

10. VALIDITY OF THE BID-

Full descriptive particulars and complete specifications should accompany the offer. Offers should be kept open for acceptance for at least **180 days** from the date of opening.

After finalization of this tender the approved rates shall be valid till **31.12.2026**; however, CREDA shall have liberty to increase or decrease this validity if needed.

11. TERMS & CONDITIONS -

- a. The terms, conditions and specifications mentioned in tender document shall be binding on the bidders and no condition or stipulation contrary to the conditions shall be acceptable.
- b. It may please be noted that the bidders who do not accept terms and conditions stipulated in this tender document, their offers shall be liable to be rejected out-rightly without assigning any reason whatsoever.
- c. Each page of tender document & enclosures shall be signed by the bidder and seal affixed. All the pages of the documents issued must be submitted along with the technical offer. In case of any corrections / alterations in the tender, the bidder should attest the same; otherwise, tenders may not be considered. In case of Consortium both the partners shall sign & seal.
- d. Bidders are also instructed to submit their tenders in properly arranged manner (with index, proper paging and with flags on important documents). Incomplete, lose, conditional or improper arranged tenders will not be accepted.

12. CREDA RESERVES THE RIGHT -

- a. To reject or accept any or all Bids fully or partly without assigning any reason on the grounds considered advantageous to CREDA, whether it is the lowest Bid or not.
- b. To split the quantities against the Bid further for the same items/work. No reason will be assigned by CREDA for this and will be binding on the Bidders.
- c. To increase or decrease the aggregate quantities as per discretion or circumstances.
- d. Due to large quantum of work & limitation of the time period for completion of the work CREDA may, if required, take consent from other eligible Bidders if they agree to work on rates approved by CREDA.

- e. CREDA may undergo agreement with those eligible Bidders who give consent to work on rates standardized by CREDA and may allocate work to them. Rates approved through this Bid may be standardized for all eligible Bids to work in year 2024-25 & 2025-26 and shall be valid till **31-12-2026**. However, CREDA reserves right to curtail or extend this period.
- f. CREDA reserves the right to amend or change minor specifications of the entire or any component of SPV irrigation pumping system even after the issuance of work/supply order as per the site conditions and demand.
- g. In case of any quality and/or Operation and maintenance issue found, CREDA shall not consider the bid of respective bidder if applicable.

13. COMMUNICATIONS -

- a. All the communication between Bidder and CREDA shall be in writing. Notice sent in writing or by other electronic means shall be effective on confirmation of the transmission. Notice sent by registered post or speed post shall be effective of delivery or at expiry of normal delivery period as under taken by Postal Service.
- b. Offers through Telegraph/Fax/Emails/Post/Courier or open offers etc. received shall be summarily rejected.

14. BID DOCUMENT FEE AND EARNEST MONEY DEPOSIT-

- a. Each Bidder should submit Bid Document Fee and earnest money in the form of Demand Draft/Pay Order or RTGS/NEFT. Each bidder should submit Tender Document Fee and Earnest Money Deposit (EMD) in the form of RTGS/NEFT as single transaction only as mentioned in the TENDER No. **162512/Repair & Maintenance/2024-25 Dated 06.12.2024**.
- b. **Tender Document Fee and EMD submitted in any other form e.g. Cash/Bank Guarantee/FDR/TDR etc. shall not be accepted.**

15. PRE-BID QUERIES -

- a. All suggestions, doubts, confusion, request, queries etc., shall have to be presented to CREDA in writing or through email at credatendercell@gmail.com on or before 05:00 PM 13.12.2024. After that any representation in this regard shall not be considered.
- b. The purpose of pre-bid queries is to clarify issues and questions related to this tender that can be raised at that stage. Any amendments in the bid documents which may become necessary as a result of pre-bid queries received shall be part of original Bid document and communicated through corrigendum on CREDA website (www.creda.co.in) and on Chhattisgarh e-Procurement Portal <https://eproc.cgstate.gov.in>

16. TECHNICAL CRITERIA -

- a. Bidder must have either valid Test Report issued by the National Institute of Solar Energy and any other lab accredited by NABL or any Govt or MAF(Manufacture Authorization form) in his name or written consent from owner (hereinafter owner means manufacturer of SPV Module/Pump/Controller/USPC/BOS) of the test report to use such test certificate/reports for all categories of pump i.e. 02, 03 & 05 HP, AC & DC, Surface & Submersible other necessary BOS material also.
- b. The bidder must have experience in installing at least two USPCs in the state of Chhattisgarh. A certified copy from the District Office of CREDA, along with photographs of the installed USPCs as proof, shall be submitted with the tender documents to be eligible for quoting rates for USPCs.
- c. The technical specification of all the items for which the rate has been called under this tender shall be strictly as per the original tender of SAUR SUJLA SCHEME floated and

finalized for various phases of the scheme as mentioned in section-03.

- d. Bidders who are debarred from business by Govt. /Govt. Agency in any state would not be eligible to participate in this bid. A self-declaration should be submitted by the bidder to this effect, failing which bid shall be rejected.
- e. The Bidder should have sufficient technically qualified and well-experienced manpower for repair and maintenance and after sales service of the systems. These details may be called by CREDA and in case there is any deficiency found the Bidder may be debarred.

17. FORFEITURE OF EARNEST MONEY DEPOSIT -

It should be clearly understood that in the event of bidder failing to enter into the agreement in the prescribed format on their quoted rates and fails to execute assigned works under any Scheme validity period of the offer, the full amount of earnest money will be forfeited and bidder shall be debarred from future business with CREDA. CREDA's decision in this regard will be final and binding on the bidder.

18. PRICE OF SUPPLY AND REPAIR -

- a. The Price must be quoted for each category item excluding GST.
- b. The GST shall be paid extra as per prevailing rate (**GST notification no. 24/2018-Central Tax (Rate) dated 31.12.2018 & notification no. 8/2021-Central Tax (Rate) dated 30.09.2021.**) The prices shall be filled exactly as per **e-Price Bid enclosed.**
- c. Any change in GST shall be applicable during the period of contract.
- d. In this regard if there is any change in the composition ratio of goods and services by any Authority/ Courts, same shall be applicable.
- e. **There shall be no escalation of rates under any circumstances.**

19. ENGINEERING DOCUMENT -

Bidder will have to submit Engineering Documents with technical details, drawings, Specifications of components and make etc. to CREDA for approval, as and when asked by CREDA. Works may only be started out only after approval of the Engineering Document and their samples.

20. SAMPLES -

If required, samples of the components shall have to be submitted to the CREDA in prescribed manner after receipt of notification of CREDA for testing, verification purpose without any additional cost.

21. INSPECTION -

CREDA reserves right to inspect the material at Godowns /Temporary Stores before dispatch and also at works sites.

22. MANDATORY DEDUCTION -

- i. CREDA shall deduct various statutory taxes like IT TDS, GST TDS and various cess on the payment made by the beneficiaries as contribution to bidder and subsidy payable by CREDA i.e. total cost of system.
- ii. **WCT-** This deduction will be made at the rate of 01% on the total cost (including beneficiary share) of the system.
- iii. **Royalty-** In the absence of Royalty clearance certificate royalty will be deducted at the market rate on the consumption of minor minerals like sand and aggregates.

23. TAX OBLIGATIONS -

CREDA shall deduct TDS for Income Tax, applicable cess on Civil Work etc. under various acts and deposited with the appropriate authority.

24. JURISDICTION OF THE COURT -

Any dispute arising out of the contract shall be subject to and will be resolved as per the decision of C.E.O. , CREDA and if the matter still unresolved then further matter can be put forth before Hon'ble High Court of Chhattisgarh.

25. CORRUPTOR FRAUDULENT PRACTICES-

- a. The CREDA requires the Bidder/SI to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.
- b. It is required that each Bidder/SI (including their respective officers, employees and Sub-contractors) adhere to the highest ethical standards, and report to the Government/ Department all suspected acts of fraud or corruption or coercion or collusion of which it has knowledge or become aware, during the tendering process and throughout the negotiation or award of a contract.

SECTION - 2

GENERAL CONDITIONS OF CONTRACT

1. DEFINITIONS-

In writing General Conditions of Contract, the specifications and bill of quantity, the following words shall have the meanings hereby indicated, unless there is something in the subject matter or content inconsistent with the subject.

- a. **"MNRE"** shall mean the Ministry of New and Renewable energy, Govt. of India.
- b. **"CREDA"** shall mean the Chhattisgarh State Renewable Energy Development Agency which is a state nodal agency of **MNRE**, represented through the Executive Engineer.
- c. **"Work"** shall mean any work entrusted to the bidder as mentioned in the scope of work and sanction order.
- d. The **"Engineer in charge"** shall mean the Engineer or Engineers authorized by CREDA for the purpose of this contract. Inspecting Authority shall mean any Engineering person or personnel authorized by CREDA to supervise and inspect the erection of the SPV irrigation pump.
- e. **"The Eligible SI/Bidder"** shall mean the bidder awarded with the contract or their successors and permitted assigns. Contract Price shall mean the sum named in or calculated in accordance with the provisions of the contract as the contract price. General Conditions shall mean the General conditions of Contract.
- f. **"Specifications"** shall mean the specifications annexed to these General Conditions of contract and shall include the schedules and drawings attached thereto or issued to the eligible SI from time to time, as well as all samples and pattern, if any,
- g. **"Month"** shall mean calendar month. "Writing" shall include any manuscript, typewritten, printed or other statement reproduced in any visible form whether under seal or written by hand.
- h. **"Bidder of Chhattisgarh State"** shall mean Bidder registered as a Pvt. Ltd. / Ltd. / Partnership / Proprietorship firm incorporated and/or worked in the State of Chhattisgarh (Under CREDA Scheme) consistently for five years shall be treated as Bidder of Chhattisgarh.
- i. **"Site"** (where pumps to be installed) shall mean the agricultural land, being used for agriculture purpose only.
- j. **"Beneficiary"** shall mean small and marginal farmer only. Hereinafter Farmer means whose profession is agriculture only

2. PROOF OF MANUFACTURER -

Those bidders who are also manufacturers of an important component of SPV irrigation pump such as SPV Modules, Surface or Submersible Pump, VFD or Structures of SPV irrigation Pumps shall have to submit proof of their manufacturing unit, appropriate registration documents and list of Machineries and Equipment's.

3. CONTRACT DOCUMENT-

The term "Contract" shall mean and include the General conditions, specifications, schedules, drawings and sanction orders etc., issued against the contract schedule of price or their final general conditions, any special conditions applying to the particular contract specification and drawings and agreement to be entered into. Terms and conditions not herein defined shall have the same meaning as are assigned to them in the Indian contract Act or any other Act in vogue or by any person of common knowledge and prudence.

4. MANNER OF EXECUTION -

Execution of work shall be carried out in accordance with the concerned district officer of CREDA.

5. VARIATIONS, ADDITIONS & OMISSIONS -

CREDA shall have the right to alter, amend, omit, split or otherwise vary the quantum of work, by notice in writing to the Bidder. The eligible Bidder shall carry out such variation in accordance with the rates specified in the contract so far as they may apply and where such rates are not available; those will be mutually agreed between CREDA and the eligible SI.

6. INSPECTION -

- a. The Engineer-in-Charge or his authorized representative(s) shall be entitled at all reasonable times to inspect and supervise and test during installation and commissioning. Such inspection will not relieve the eligible bidder from their obligations under this contract.
- b. Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory / godown at the cost of the eligible bidder, if desired by CREDA.
- c. CREDA will undertake real time performance and quality test of randomly selected item and components during the course of execution as per CREDA specifications and guidelines to ensure quality and performance of pump and components.

7. COMPLETION OF WORK -

- a. Time being the essence of contract, the supply and repair of the SPV irrigation pumps shall be completed within the time schedule prescribed in the work order.
- b. After finalizing of rates and successful bidder, approved rates along with draft agreement will be sent to all successful bidders for acceptance, they will have to provide Acceptance within 10 days of issuance of draft agreement.
- c. Detailed Manner of execution is mentioned in Section-2, Clause 4 of this tender document.

8. ELIGIBLE SYSTEM INTEGRATOR'S LIABILITY IN CASE OF DEFAULT-

CREDA, may, by written notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -

- a. If in the opinion of the CREDA, the eligible bidder fails to complete the work within the time specified in the work/supply order or within the period for which extension has been granted by CREDA to the eligible bidder.
- b. If in the opinion of CREDA, the eligible bidder fails to comply with any of the provisions of this contract.
- c. In the event of CREDA terminating the contract in whole or in part as provided in paragraph (a) above, CREDA reserves the right to engage another eligible bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs due to the cost inflation in delayed period or any losses caused to CREDA as may be required for the completion of work and or for penalty as defined under this tender document until such reasonable time as may be required for the final completion of the work.
- d. If the original bidder does not complete the work in stipulated time and delays the completion then penalty may be imposed on original bidder for the delayed period to compensate the inflation hike in material cost. So that no extra burden incurred on the next bidder to whom the work will be re-allotted.
- e. In the event CREDA does not terminate the contract as provided in paragraph (a) the eligible bidder shall continue performance of the contract, in which case he shall be liable

to CREDA for penalty for delay as set out in this tender document until the work is completed.

9. FORCE MAJEURE -

The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as act of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics/pandemics, quarantine restrictions / lockdown, strikes, freight embargoes provided that if bidder shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify. Delay in supply of any accessories of Solar Pumps etc. by the related vendors, to whom the bidder has placed order, shall also not be treated as force majeure.

10. REJECTION OF WORKS -

In the event of any of the material supplied/work done by the eligible bidder is found defective in material or workmanship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/or work and advise the eligible SI to rectify the same. **CREDA may impose penalty for such rejection up to the 200% cost of the entire system. Habitual/repeated offenders shall be black listed/debarred to participate in the any Tender/ Activity of CREDA till further orders.** The eligible SI on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible SI fails to do so CREDA may -

- a. At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **15%** service charges of the cost of such rectification, from the eligible bidder and/ or terminate the contract for balance work/ supplies with enforcement of penalty **as stated above.**
- b. Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work **with enforcement of penalty as stated above.**

11. EXTENSION OF THE TIME -

If the completion of supply/work is delayed due to any reason beyond the control of the eligible bidder, the eligible bidder shall without delay give notice to the CREDA in writing of his claim for an extension of time. CREDA on receipt of such notice may or may not agree to extend the contract/delivery date but without prejudice to other terms and conditions of the contract. Chief Executive Officer, CREDA has full right for unconditional time extension.

12. MAKES OF EQUIPMENTS TO BE USED IN THE WORK -

- a. The Solar Modules, Solar Pumps, USPC, Controller & Other BOS shall be made in India.
- b. The eligible bidder has to ensure that equipment's as per Technical Requirements of guidelines of CREDA as complied with. The eligible bidder has also to ensure that he will use only components of approved vendors of CREDA. The material/works for which CREDA or BSI or ISI specification is not available, engineer-in-charge of the works will examine and approve the material/works, preferably of all makes on which CREDA has report of satisfactory performance.
- c. Manufacturer Authorization Form (MAF) on manufacturer's letter head for Solar Pump/Module/Pump Controller/USPC/Structure which the bidder is intending to supply shall be submitted at the time of tender submission.
- d. The bidder shall ensure that all the major components such as Solar Modules, Solar Pump, Pump Controller, USPC and Structure are procured from registered vendors of CREDA of respective components.

13. WARRANTEE PERIOD AND POST INSTALLATION SERVICES -

- a. The work done/material supplied by the eligible bidder should be warranted for satisfactory operation and against any defect in material and workmanship including Pumps, Controllers, USPCs and other balance of equipment's, at least for a period of **5 (five) years**, from the date of supply including other works as per scope of work.
- b. Warrantee on SPV Modules shall be for **10 (ten) years** from the date of supply must be warranted for their output peak watt capacity, which should not be less than **90%** at the end of **10 years** and not less than **80%** at the end of **25 years**.
- c. The above warrantee certificates shall be furnished to the CREDA for approval. Any defect noticed during this period should be rectified by the supplier free of cost upon written notice from CREDA provided such defects may be due to bad workmanship or bad materials used.
- d. The warrantee period shall be extended by the period during which the part supplied remains non-operative due to reasons within control of the eligible bidder.
- e. This warrantee must be an unconditional onsite warrantee and the eligible bidder will have to replace the defective material within **7days** positively from the date of information given to him.
- f. Care should necessarily be taken to make the part supplied functional, once the reporting of the fault/non-operational status is done, within **07 days**. If the supplied part is not made operational within **15 days**, the rectification/replacement (keeping the same configuration in consideration) will be done by CREDA at the risk and cost of bidder, after rectification / replacement the warranty clause will remain compliable as per tender conditions and if the bidder fails to rectify the faulty system within 30 days then this may lead to blacklisting and debarment of bidder from all the activities of CREDA for 03 Years.
- g. Eligible shall have to establish their service stations in the allocated area and shall have to keep enough spares and man power to ensure proper service network for taking care of smooth functioning of material supplied by them.

14. TERMS OF PAYMENT -

The following terms of payment shall apply for the tender -

- a. **90%** of the total billed (Excluding GST) amount as per the work/supply order after satisfactory supply, installation, and commissioning & performance test of the material supplied at site with proper handing over.
- b. Balance **10%** of total billed (Excluding GST)) amount shall be retained by CREDA as Security Deposit for a period of **60 months** from date of supply/work.
- c. **GST will be paid extra as per prevailing rate.**

15. PENALTY FOR DELAY IN COMPLETION OF CONTRACT-

- a. If the eligible bidder fails to complete the assigned work within the schedule time specified in the Work Order or any extension granted there to, CREDA will recover from the bidder as penalty of upto **Half percent (0.5%)** of the system price excluding GST/Tax for every delayed system per week. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed **10% (Ten percent)** of the cost in 05 months. The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE.
- b. Review of the progress of work to eligible bidder shall be done time to time by CREDA and if the progress of work is found unsatisfactory, the entire remaining work or their part of can be re-allocated to other eligible bidder as per discretion of CREDA.

16. SECURITY DEPOSIT (SD) -

- a. The Earnest Money shall be retained by CREDA up to the duration of validity of tender, after agreement is done to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be required by CREDA.
- b. Beside this 10% of the cost shall also be retained as SD during the five years of warranty period. No interest shall be payable on the SD.
- c. Period for which SD is to be retained may be extended in case the warranty period is extended due to non-performance of the system.
- d. All costs of damages and delays for which the eligible SI is liable to the CREDA will be deducted from any money due to the eligible SI including the security deposit of any project under CREDA.

17. PENALTY DUE FROM THE ELIGIBLE SI -

All costs of damages and delays for which the eligible bidder is liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.

18. RESPONSIBILITY OF ELIGIBLE SI -

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the supplied material /work by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible bidder. If in any case the eligible bidder does not complete the work as per the work orders issued to them then CREDA may take over the task & complete the project at the risk and cost of eligible bidder.

19. RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE -

If any loss or damage occurs to the work or any part thereof or materials/plant/equipment's for incorporation therein the period for which the eligible bidder is responsible for the cause thereof or from any cause whatsoever, the eligible bidder shall at his own cost rectify/replace such loss or damage, so that the permanent work confirms in every respect with the provision of the contract to the satisfaction of the Engineer. The eligible bidder shall also be liable for any loss or damage to the work/equipment's occasioned by him in course of any operation carried out to him during performing the contract.

20. RESPONSIBILITY TOWARDS THE WORKMAN OR OUTSIDERS -

- a. **The eligible bidder shall have to take insurance coverage from any authorized Insurance Company against Workmen compensation due under Workmen Compensation Act and submit copy of the insurance document before issuance of work/supply order.**
- b. The eligible bidder shall ensure all safety measures during execution and repairs of the work. CREDA, will, in no case be responsible for any accident fatal or non-fatal, caused to any workman or outsider in course of transport or execution or repairs of work.
- c. All the expenditure including treatment or compensation will be entirely borne by the eligible bidder. The eligible bidder shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.
- d. CREDA shall have all rights to deduct such claims of payments from bidder in case of complaints of such violations.

21. NON-ASSIGNMENTS -

- a. The Eligible bidder shall not assign or transfer the work orders issued as per this contract or any part thereof without the prior approval of CREDA.
- b. If eligible bidder transfer/ assign/ Sublet full or any part of work allotted to him without prior permission from CREDA in writing to any third party then the bidder shall be liable to debar/ blacklisted from any Bid/ Activities of CREDA till further order.
- c. If in any stage, any dispute or irregularity found in subcontracting the work, this sublet/subcontract will be terminated from the immediate effect.

22. **CERTIFICATES NOT TO AFFECT RIGHTS OF CREDA -**

The issuance of any certificate by CREDA or any extension of time granted by CREDA shall not prejudice the rights of CREDA in terms of the contract nor shall they relieve the eligible bidder of his obligations for due performance of the contract.

23. **SETTLEMENT OF DISPUTES -**

Except as otherwise specifically provided in the contract, all disputes concerning questions of fact arising under the contract shall be decided by the Chief Executive Officer (CEO), CREDA provided a written appeal by the eligible bidder is made to CREDA. The decision of the CEO, CREDA shall be final and binding to the all concerns.

24. **LAWS GOVERNING CONTRACT -**

The contract shall be constituted according to and subject to the Laws of India and jurisdiction of the High Court of Bilaspur, Chhattisgarh.

25. **LANGUAGE AND MEASURES -**

All documents pertaining to the Contract including specifications, schedules, notice correspondences, operating and maintenance instructions, drawings or any other writings shall be written in English / Hindi language. The metric system of measurement shall be used in this contract.

26. **CORRESPONDENCE -**

- a. Any notice to the eligible bidder under the terms of the contract shall be served by registered mail to the registered office of the eligible bidder or by hand to the authorized local representative of the eligible bidder and copy by post to the eligible bidders principal place of business.
- b. Any notice to CREDA shall be served to the Executive Engineer, CREDA Raipur in the same manner.

27. **SECRECY -**

The eligible bidder shall treat the details of the specifications and other documents as private and confidential and they shall not be reproduced without written authorization from CREDA.

28. **AGREEMENT -**

The successful eligible bidder shall have to enter into an agreement with the CREDA in the approved contract agreement form within **10 days** of the receipt of call from CREDA.

29. **DECLARATION OF CONFLICT OF INTEREST -**

- a. Any regular employee working or worked on basis of contract or through placement agency cannot work directly or indirectly in any scheme of CREDA. If such a person is found working with any bidder, then, such bidder shall be blacklisted for three years.
- b. The bidder shall not be permitted to Bid for the work if the section of HO CREDA (responsible for implementation of work) in which his near relative is posted. Furthermore, the successful bidder shall not be given work in the district in which his near relative is posted. The bidder shall also intimate the names of his near relatives working in CREDA. Bidder shall also intimate the name of persons who are working with him in any capacity and who are near relatives to any employee in CREDA. Any breach of this condition by SI would render himself liable to be blacklisted for three years and removed from approved list of SIs in CREDA.

Note: - By the term near relatives are meant Wife, Husband, Parents and son, Brother, Sister, Brother-in-law, Father-in-law, and Mother-in-law etc.

- c. Bidder must produce an affidavit (Annexure – IV) stating the names of retired/removed employee of CREDA (if any) in his employment who retired /removed within last two years, if in case there is no such person in his employment, his affidavit should clearly state this fact. This affidavit is mandatory, if it is not produced along with the bid, the bid shall be rejected.

30. EVALUATION OF PRICE BID-

Price bid shall be evaluated based on Quoted rates. Lowest rates of each category of items shall be considered however CREDA shall have discretionary power to amend/lower the rates. The price bid of proprietary items such as submersible/surface pump, controller, USPCs, solar module will be compared make wise.

31. BID REJECTION -

If financial bid of a bidder has been opened on the basis of technical bid of a bidder, which has been determined to be substantially responsive to the bidding document but if in latter stage it is found that bidder does not meet the eligibility criteria or the technical bid is found substantially non-responsive, CREDA reserves rights to reject such bid of a bidder at any stage.

We (on behalf of Bidder) have read all the above stated details & accept to comply with it in total.

Date

Signature:-

Name:-

Seal of the Bidder:-

SECTION - 3

TECHNICAL SPECIFICATION

The above tender is released for standardization of rates for supply and installation for replacement of spare/nonfunctional parts of solar irrigation pumps under warranty period installed in various phases of SAUR SUJLA SCHEME. The Minimum technical specification of the materials for which the rates has been called will be as per the tender of “SAUR SUJLA SCHEME” issued vide tender no 105235 dated 27.07.2022 mentioned below: -

1. CONSTRUCTIONAL FEATURES -

a. General -

SPV Water Pumping System set uses the irradiance available through SPV array. The SPV array produces DC power, which can be utilized to drive a DC or an AC pump set using pump controller. A SPV Water Pumping system typically consists of pump set may be of any one of the following types -

- i Mono-block pump set;
- ii Open well submersible pump;
- iii Submersible pump;

b. Motor -

The motor of the pump set may be of the following types -

- i. AC Induction Motor.
- ii. DC Motor [PMSM/BLDC/SRM (with brush or brushless)].
- iii. Provision for remote monitoring for the pumps must be made in the pump controller through an integral arrangement having following basic functions:
 1. Controller must be assigned with a unique serial number and its live status must be observed remotely on online portal through login credentials.
 2. Live status must indicate whether controller is ON/OFF.
 3. The parameter i.e. the water output, water flow rate, in fault condition, array input voltage/current, power and motor frequency should at logged at an interval of 10 minutes
 4. Controller must have a back up to store the data locally (at least for 1year)

c. Solar Photo Voltaic (SPV) Module -

- i The power output of individual PV modules under STC, should be a minimum of 320 Watts peak for 03 & 05 HP pumps and 535 Watts peak and above
- ii Modules supplied shall have certificate as per IS14286/IEC 61215 specifications or equivalent National or International/ Standards. STC performance data supplied with the modules shall not be more than one year old.
- iii Modules must qualify to IS/IEC 61730 Part I and II for safety qualification testing and shall be compliant to Domestic Component Requirement (DCR) as per MNRE.

- iv The minimum module efficiency should be minimum 15 percent and fill factor shall be more than 70 percent.
- v Modules must qualify to IEC TS 62804-1:2015 for the detection of potential-induced e-gradation - Part 1: Crystalline silicon (Mandatory in case the SPV array voltage is more than 600 VDC)
- vi The name plate shall conform the IS 14286/IEC61215
- vii Module to Module wattage mismatch in the SPV array mismatch shall be within (\pm) 3 percent.
- viii Variation in overall SPV array wattage from the specified wattages shall be within zero percent to +10 percent.
- ix The PV Modules must be warranted for output wattage, which should not be less than 90% of the rated wattage at the end of 10 years and 80% of the rated wattage at the end of 25 years.

x IDENTIFICATION AND TRACEABILITY -

Each PV module must use a RF identification tag (RFID), which must contain the following information:

- a. Name of the manufacturer of PV Module
- b. Name of the Manufacturer of Solar cells
- c. Month and year of the manufacture (separately for solar cell and module)
- d. Country of origin (separately for solar cells and module)
- e. I-V curve for the module (should be submitted in soft copy at D.O.)
- f. Peak Wattage, I_m , V_m and FF for the module
- g. Unique Serial No and Model No of the module
- h. Name of the test lab issuing IEC certificate
- i. Other relevant information on traceability of solar cells and module as per ISO 9000 series.

The RFID must be inside of module lamination. The module laminate, but must be able to withstand harsh environmental conditions.

- xi. The panel should be supplied with CREDA Logo in the form of sticker on the back of SPV panel or duly laminated inside the glass of solar module with the remark "Manufactured for CREDA". Inter connections of solar modules should be through good quality male female joint. Name of manufacturer, Sl. No. of Module & manufacturing year should be clearly fixed inside the glass lamination of every module. Back label should be affixed behind every module which should clearly state the specifications & capacity of the module.
- xii. All SPV modules must be indigenously built and made in India.

d. MOTOR- PUMPSET

- i. Solar pump must be indigenously built and made in India.
- ii. The "Motor-Pump Set" should have a capacity in the range of 3 HP to 5 HP and should have the following features -
 - 1. The mono block DC/ AC centrifugal motor pump set with the impeller mounted directly on the motor shaft and with appropriate mechanical seals which ensures zero leakage.
 - 2. The motor of the capacity ranging from 3 HP to 5 HP should be AC/DC. The suction and delivery head will depend on the site specific condition of the field.

3. Submersible pumps could also be used according to the dynamic head of the site at which the pump is to be used.
 4. Selection of pump at the time of survey must be done appropriately as per site conditions, depth & yield of the bore well.
- iii. The pump and all external parts of motor used in submersible pump which are in contact with water, should be of stainless steel of grade 304 or higher as required. The motor- pump set should have a 5 years warranty and therefore, it is essential that the construction of the motor and pump should be made using parts which have a much higher durability and do not need replacement or corrode for at least 5 years of operation after installation.
 - iv. The suction/ delivery pipe shall be of HDPE or UPVC column pipes of appropriate size, electric cables, floating assembly, civil work and other fittings required to install the Motor Pump set. In case of HDPE pipes the minimum pressure rating of 8 kg/sqcm-PE100 grade for pumps up to 3 HP, 10 kg/sqcm-PE100 grade for 5 HP pumps. UPVC column pipe/HDPE Pipe must be provided as per bore depth.

e. MODULE MOUNTING STRUCTURE (MMS) -

- i. MMS as per drawings should be hot dipped galvanized (minimum **80 microns**) array support structure for mounting of SPV modules at site. The panel frame structure should be capable of withstanding a minimum wind load of **150 Km** per hour, after grouting and installation. MMS should be sturdy & designed to assist SPV Modules to render maximum discharge. The hardware (fasteners) used for installation of SPV Modules & MMS should be of suitable Stainless Steel (**SS 304**). Each MMS should be grouted on pedestals & Foundation as per drawings. Each module should be fastener by four theft proof nut built. Module Mounting Structure including foundation bolt, other nut & bolt, steel nut & bolts, washer, theft proof nut & bolts, clamps for holding controller etc. for 06 nos & 09 nos modules shall be as per drawing and specification attached in tender document.
- ii. Module Mounting Structures should have theft proof arrangements with the use of GI Steel C-channel along with the array support structure for locking arrangement of SPV modules for protecting them from theft. Its size should be with reference to the specifications of the SPV modules such that modules can comfortably slide in the channel while installation. It should not hide any portion of the photovoltaic circuit encapsulated in the lamination of the SPV module, thereby un-affecting the efficiency & rating of the SPV modules. Anti- Theft Nut Bolts of SS (with washers) should also be used for better theft proofing along with "C" Channel MMS.
- iii. To enhance the performance of SPV water pumping systems arrangement for seasonal tilt angle adjustment and three times manual tracking in a day should be provided. In order to make structure rigid, the gap between Telescopic pattern supports should be minimal, further, for bearing of centre load of whole structure only pins should be used instead of threaded bolts.
- iv. The general hardware for structure fitment should be either SS 304 or 8.8 grade. Modules should be locked with antitheft bolts of SS 304 Grade. Foundation should be as per drawing attached.

f. SPV CONTROLLER

- i. Controller must be indigenously built and made in India.

- ii. Maximum Power Point Tracker (MPPT) shall be included to optimally use the power available from the SPV array and maximize the water discharge.
- iii. The SPV Controller must have IP(65) protection or shall be housed in a cabinet having at least IP (65) protection.
- iv. Adequate protections shall be provided in the SPV Controller to protect the solar powered pump set against the following:
 - 1. Dry running;
 - 2. Open circuit;
 - 3. Accidental output short circuit;
 - 4. Under voltage;
 - 5. Reverse polarity;
 - 6. SPD to arrest high current surge; and
 - 7. Lightning arrestor.
- v. A good reliable DC Circuit Breaker as per IS/IEC 60947-2 suitable for switching DC power ON and OFF shall be provided in the SPV Controller.
- vi. All cables used shall be as per IS694. Suitable size of cable shall be used in sufficient length for inter-connection between the SPV array to SPV Controller and the SPV Controller to solar powered pump set. Selection of the cable shall be as per IS14536.
- vii. Controller shall have provision for GSM/GPRS Gateway with Geo tagging. GSM/GPRS Charges to be included in the Costing till the end of Warranty period of the Pump set.

g. Universal Solar Pump Controller (USPC)-

Since pumps are generally used for 150 days in a year, the installed solar capacity can be optimally utilized by using Universal Solar Pump Controller (USPC), through which farmers can use solar power for other activities like operating chaff cutter, flour mill, cold storage, drier, etc., and increase his income. Option would be given to the farmer to opt for USPC and the difference price b/w USPC and normal controller will be borne by either that farmer individually or concerned district administration/ any concerned govt. dept.

USPC Specifications for Stand-alone applications:

- i. **Preamble:** The Controller for Solar PV pumping system is the heart and brain of the system. The Solar PV pumping system deployed at huge cost to the farmer and the exchequer for the Government is currently utilized only for half of the days in a year (around 150 days per year) on an average. In order to optimally utilize the solar photovoltaic system that generates the electricity throughout the year during sunshine hours, the controller supplied for installation of solar pumping system should be able to perform several other tasks for agricultural and other needs of a farmer. This will increase the productivity of agriculture sector and income of farmer. With the use of USPC the solar system could be used effectively throughout the year.
- ii. The behest of the farmers to introduce single phase capabilities for twin purpose: Single phase agrarian load (up to 3 HP) like Chaff Cutter, Flour Mill etc. and also power house hold load, be it resistive (light bulbs, Tube lights etc.), low inductive (fan, Cooler, house mixer etc.), washing machine, Inverter AC (Compressor), Refrigerator, Inductive plate or conductive heating, capacitive loads like Television set and Computer screen etc.: in short every kind of domestic load.

To satisfy this insatiable demand of the farmers, USPC was redesigned and modified in the following manner:

- iii. USPC Port 1 – 3 phase output as per MNRE specifications
- iv. USPC Port 2 – 3 phase output as per MNRE specifications
- v. USPC Port 3 – 1 phase output with following specifications
- vi. USPC Port 4 – 1 phase output with following specifications

vii. Technical Specification for Stand Alone and On Grid Application

The USPC with SPV modules and structure can be used for agrarian applications such as water pumping, apple grading and polishing system, wheat (grain) flour grinding machine / aata chakki, cutter/chaff, deep-fridger / cold storage, blower fan for cleaning of grains, heating loads and any other standard voltage (400/415V) three phase motor/equipment of capacity not more than the capacity of Solar PV pumping system. The USPC operation schematic diagram is shown in Fig. 1. Further, the applications are not limited upto the few shown in the figure.

1. Following table gives specifications of electrical supply from USPC for motors other than the solar pumps. For operating the pump the UPSC must follow the MNRE specifications for SPV pumping systems.

S.No.	Description	Desired requirement
1	Motor Supply Phases	Three phase R-Y-B
2	Rated motor frequency	48-50Hz
3	Frequency operation	0 to 52Hz
4	Rated motor voltage	415V± 5%
5	Desired motor operation	Constant V by F or constant motor flux control

2. Proposed electrical properties of USPC when operating motors other than motor- pump set:

Sr No.	Description	Desired requirement
1	Characteristic of voltages	Pure sinusoidal or Filtered AC output voltage at motor terminal. No PWM pulses allowed at the motor terminal, as it generates pronounced voltage spikes. The USPC output is intended to use for the traditional induction motors based applications which are design for sinusoidal grid supply.
2	THD of motor terminal voltages	Below 3%
3	THD of motor current (in case of balance/linear motor)	Below 5%
4	Balance supply	Three phases should be balanced and no negative sequence components to be allowed
5	Voltage spikes	Recurring or non-recurring voltage spikes more than 620V (peak of 440V AC supply) is not allowed between any two terminals
6	Alarms and Protections	Output voltage low, Output frequency low/high, Low irradiance/PV power, Current overload, Peak Torque overload

3. Controller should be able to run SPV pumping system as per MNRE specifications as well as any other type of motor of suitable rating, subject to the load characteristics of the equipment in which the motor is used is any of the following:
 - a. Constant torque loads
 - b. Constant power loads
 - c. Quadratic loads

- d. Impact loads
- e. Hydraulic loads

Subject to the maximum torque being not more than 150% of the rated torque of the motor.

4. To ensure energy efficiency of solar PV system and to maintain reliability of PV installation against aging effect, module mismatch with time, partial shading, etc. , the desired USPC properties and configuration should be as follows:
 - a. Static MPPT efficiency of USPC should be equal or more than 98% during operation of 10 to 100% of rated STC PV power, and average MPPT tracking efficiency in the dynamic condition should be greater than 97 % with hot and cold profiles when feeding the water pumping, hydraulic or heating loads, so as to maintain MPPT irrespective of variation in solar energy or irradiance.
 - b. USPC efficiency should be as follows for the operation at 80% rated STC power of the PV array:

Sr No.	SPV pumping system capacity	USPC power efficiency should be more than or equal to
1	3 HP	93.00%
2	5 HP	93.00%

- c. Considering voltage variation over the year due to variation in temperature, irradiance and effect due to ageing, environmental damages to PV panels with time, USPC should have MPPT channels as an integral part of system (or externally connected part) with wide range of input PV voltage for MPPT tracking of the PV panels. Input voltage range variation should be tested as per manufacturer declaration (min, nominal or 90% of the maximum) or if no declaration is made than at least it should be tested as per the table given below.

Sr No.	Motor Pump set capacity	Input voltage range		
		Minimum	Nominal	Maximum
1	3 HP	(Vnominal-50)	Nominal	(Vnominal+50)
2	5 HP	(Vnominal-70)		(Vnominal+70)

5. There should be Mode selection located on control panel of the USPC along with display and user should be able to select either to run motor-pump set of any other application. The software/firmware required to operate these applications must get automatically loaded when an appropriate position of the switch is engaged.
6. USPC must have at least four numbers of three phase output cables to feed power to the applications. The output power cable for specific application should get selected automatically upon selection of applications via keypad or via mobile or via remote control connectivity. The manual selector switch should not be used at the output to manage different loads. This is to ensure the hassle-free operation of applications by farmer with adequate safety.

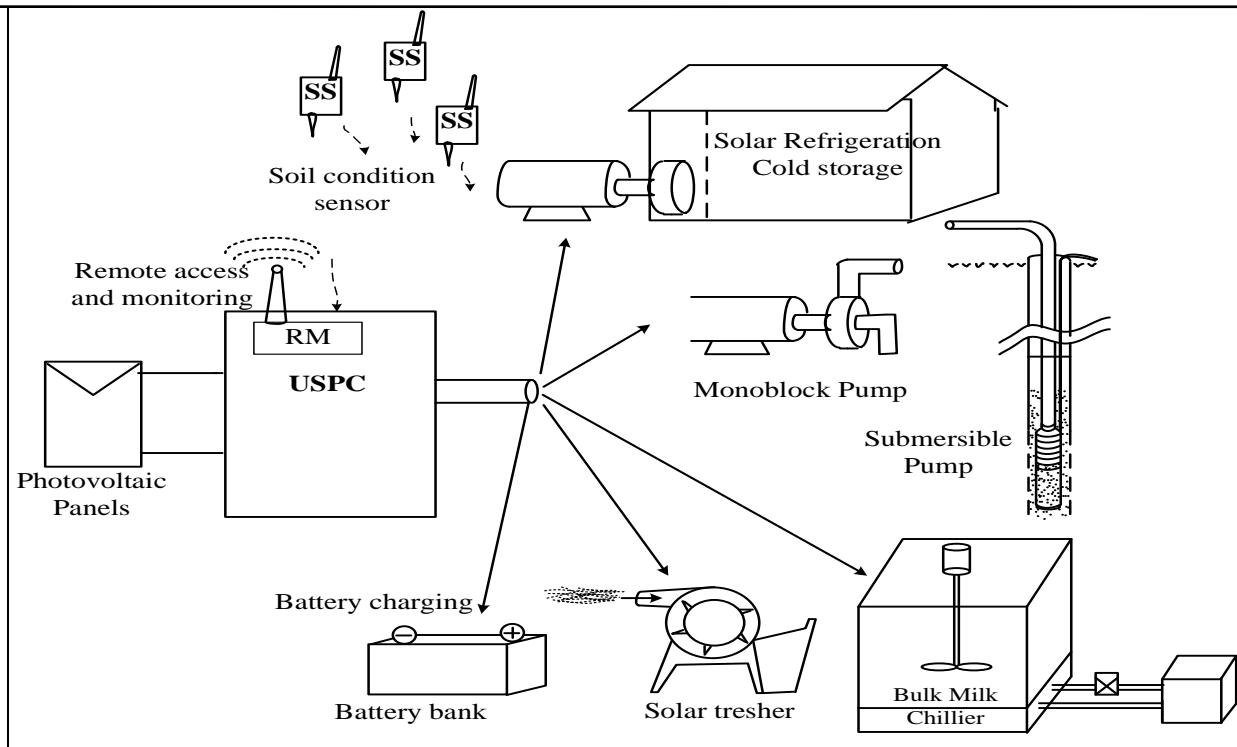


Fig. USPC operation schematic diagram.

7. USPC based Solar system must be equipped with Remote monitoring and remote fault identification:
- a. Remote monitoring features should be integral part of solar pump controller and should provide time wise remote monitoring of PV voltage, PV Power, Water output, head, when used in solar pump mode. When operated in farm equipment mode, it should show, PV voltage, PV power, motor voltage, motor current and motor frequency.
 - b. Cumulative energy generation from PV panels for a month, year and 5years should be provided.
 - c. Remote monitor should show current status of system like On, Off and fault.
 - d. Software associated with remote monitoring should also provide location of SPV pumping system.
 - e. Controller should have support of sufficient Internal memory/ SD card / memory card to support remote monitoring in case of network failure.
USPC must have IP65 protection or must be housed in a cabinet having at least IP65 protection.

h. EARTHING ARRANGEMENT

- i Earthing of the motor shall be done as per IS 9283 in accordance with the relevant provisions of IS 3043. Separate earthing shall be provided for Controller, pump and SPV array.
- ii For safety purpose, it shall be ensured during installation that the earthing is capable of taking care of leakage current.
- iii In case of UPVC/HDPE pipes used as discharge pipe, a separate non-corrosive, low resistance.
- iv Conductor from motor earth terminal to control panel earth terminal shall be provided for earthing.
- v A lightning arrestor shall be provided with every SPV Water Pumping System.

i. USE OF INDIGENOUS COMPONENTS

It will be mandatory to supply indigenously manufactured solar modules. The motor-pump-set, controller and balance of system should also be manufactured indigenously.

2. TESTS FOR HYDRAULIC AND ELECTRICAL PERFORMANCE OF PUMPSET -

- a. The motor-pump set shall be tested independently for hydraulic and electrical performance as per the relevant IS specification including following test -
 - i. Constructional requirements/features
 - ii. General requirements
 - iii. Design features
 - iv. Insulation resistance test
 - v. High voltage test
 - vi. Leakage current test
- b. Testing of SPV Water Pumping Systems shall be done as per procedure specified by the MNRE.

3. MARKING AND PARAMETERS TO BE DECLARED BY THE MANUFACTURER -

The motor pump-set and Controller used in SPV Water Pumping Systems shall be securely marked with the following parameters declared by the manufacturer:

a. Motor Pump-set -

- i. Manufacturer's name, logo or trade-mark;
- ii. Model, size and SI No of pump-set;
- iii. Motor Rating (kW /HP);
- iv. Total head, m, at the guaranteed duty point;
- v. Capacity (LPD) at guaranteed head;
- vi. Operating head range m;
- vii. Maximum Current (A);
- viii. Voltage Range (V) and;
- ix. Type - AC or DC Pump set; &
- x. Photo Voltaic (PV) Array Rating in Watts peak (Wp)

b. Controller-

- i. Manufacturer's name, logo or trade-mark;
- ii. Model Number;
- iii. Serial Number;
- iv. Voltage Range;
- v. Power Range in kW for Controller; and
- vi. Current rating (A)

c. USPC-

- i. Manufacturer's name, logo or trade-mark;
- ii. Model Number;
- iii. Serial Number;
- iv. Voltage Range;
- v. Power Range in kW for USPC; and
- vi. Current rating (A)

d. Structure -

- j. Manufacturer's logo or trade-mark.

4. TESTS TO BE PERFORMED ON DUAL AXIS MANUAL TRACKING TYPE MMS FOR SOLAR WATER PUMPING SYSTEM -

- a. For ascertaining proper welding of structure part following should be referred -
 - i. Weld wire grade should be of grade **(ER 70 S -6)**
 - ii. D.P. Test (Pin Hole / Crack) **(IS822)**
- b. For ascertaining hot dip galvanizing of fabricated structure following should be referred -
 - i. Min coating required should be as per IS4759.
 - ii. Testing of galvanized material.
 - 1. Preece Test (CuSO₄ Dip Test) **(IS2633)**
 - 2. Mass of Zinc **(IS 6745)**
 - 3. Adhesion Test **(IS2629)**

In case of any clarification and confusion the technical specification laid down in the respective tender of SSY scheme will be final and binding.

SECTION -4

MAKES OF SUBMERSIBLE/SURFACE PUMPS AND CONTOLLERS

4.1 MAKES OF SUBMERSIBLE/SURFACE PUMP USED IN SAUR SUJLA SCHEME

S.No.	Pump Make
1	AQUA FLOW
2	AQUASUB ENGINEERING (TEXMO)
3	CRI PUMPS
4	CRYSTAL CORPORATION
5	CONFAB
6	DUKE
7	DYNAMECH ELECTRO
8	ECOZEN SOLUTIONS
9	FALCON
10	JAIN IRRIGATION
11	KIRLOSKAR BROTHERS LIMITED
12	GAUTAM SOLAR
13	GRUNDFOS
14	KSB
15	LUBI
16	MAHENDRA
17	NOVERGY ENERGY
18	MAHAVEER SUBMERSIBLE
19	MAHANADI
20	MECWIN TECHNOLOGIES
21	MECWIN
22	MERCURY (MAHANADI)
23	NOVUS GREEN ENERGY
24	PLUGA
25	OSWAL PUMPS
26	PREMIER PUMP
27	PSG PUMPS
28	PEARL ENTERPRISES
29	ROTAOMAG (ROTOSOL)
30	SAGUNA
31	SHAKTI PUMPS
32	SIGMA

33	SILVER ENGINEERING
34	SPAN PUMPS
35	VRG ENERGY INDIA PVT. LTD.
36	VTECH ENGINEERS
37	SILEAF
38	SOLEX
39	TATA POWER

4.2 MAKES OF CONTROLLERS/VFD USED IN SAUR SUJLA SCHEME

S.No.	Controller Make
1	ABB LTD.
2	ACCESS SOLAR
3	ALECTRONA
4	ANALOGICES GROUP
5	ANTARES TECHLOGIES
6	AQUA FLOW
7	CRI PUMPS
8	CYBERMOTION
9	CRYSTAL CORPORATION
10	DELTA
11	DUKE
12	DYNAMECH ELECTROPOWER
13	ECOZEN SOLUTIONS
14	ECOTRONICS
15	FALCON
16	FUJI ELECTRIC
17	GBT COMPOSITE
18	GREENWORLD
19	HARMESH
20	HBL
21	JAIN IRRIGATION
22	GAUTAM SOLAR
23	KIRLOSKAR BROTHERS LTD.
24	KSB
25	LUBI
26	MAHAVEER SUB.
27	MEERA & CEIKO
28	NOVERGY ENERGY

29	mitsubishi
30	MAHANADI
31	MECWIN TECHNOLOGIES
32	MECWIN/ AVNI TRADERS
33	MERCURY
34	MERCURY (MAHANADI)
35	NOVUS GREEN ENERGY
36	NSP COMPOSITE
37	OSWAL PUMP
38	PRABHAT ENTERPRISES
39	PREMIER SOLAR
40	PEARL ENTERPRISES
41	PREMIER PUMP
42	PSG PUMPS
43	ROTAOMAG (ROTOSOL)
44	SAGUNA
45	SAI BABUJI
46	SAINEER
47	SAVAN
48	SILEAF
49	SHAKTI PUMPS
50	SIGMA
51	SILVER ENGINEERING
52	SOYO SYSTEMS
53	SOLEX ENERGY
54	SPAN PUMPS
55	SPECIALITY PRODUCTS
56	SAGUNA
57	SUNRISE
58	SURYA INTERNATIONAL
59	VRG ENERGY INDIA PVT. LTD.
60	VTECH ENGINEERS
61	TATA POWER

SECTION-05**e – Price Bid****e – Price Bid (For supply and installation of pump, controller and other BOS of solar irrigation Pump under warranty period installed under various phases of SSY scheme)**

Schedule of Rates for items

(e-bidding as per Specifications & Scope of Work of No. 162512/CREDA/REPAIR & MAINTENANCE /2024-25 Dated: 06.12.2024)

Price bid -A**FOR SUPPLY AND INSTALLATION OF SUBMERSIBLE/SURFACE PUMP****(Rates in Rs. without GST)**

Pump Capacity (HP)	Pump Type	Pump Position	Pump Cooling Category	UOM (Unit of Measurement)	Total Amount (Supply and Installation)
2	AC	Submersible	Water Filled	Nos	
	AC	Surface	Water Filled	Nos	
	DC	Submersible	Water Filled	Nos	
	DC	Surface	Water Filled	Nos	
3	AC	Submersible	Water Filled	Nos	
	AC	Surface	Water Filled	Nos	
	DC	Submersible	Water Filled	Nos	
	DC	Surface	Water Filled	Nos	
5	AC	Submersible	Water Filled	Nos	
	AC	Surface	Water Filled	Nos	
	DC	Submersible	Water Filled	Nos	
	DC	Surface	Water Filled	Nos	

Price bid -B**FOR SUPPLY AND INSTALLATION OF AC/DC Controller & VFD****(Rates in Rs. without GST)**

Controller Capacity (HP)	Controller Type	Pump Position	UOM (Unit of Measurement)	Total Amount (Supply and Installation)
2	VFD/AC	Submersible	Nos	
	VFD/AC	Surface	Nos	
	Controller/DC	Submersible	Nos	
	Controller/DC	Surface	Nos	
3	VFD/AC	Submersible	Nos	
	VFD/AC	Surface	Nos	
	Controller/DC	Submersible	Nos	
	Controller/DC	Surface	Nos	
5	VFD/AC	Submersible	Nos	
	VFD/AC	Surface	Nos	
	Controller/DC	Submersible	Nos	
	Controller/DC	Surface	Nos	

Price Bid-C**FOR SUPPLY AND INSTALLATION OF OTHER NECESSARY BOS MATERIAL****(Rates in Rs. without GST)**

S no	Items Description	UOM (Unit of Measurement)	Total Amount (Supply and Installation)
1	Module Mounting Structure for 06 Nos.300Wp Module	Set	
2	Module Mounting Structure for 10 Nos.300Wp Module	Set	
3	Solar Module of capacity Min 300 Wp and above	Per Watt	
4	3 Core 4 Sq mm flat copper Submersible cable having twisted copper conductor	Meter	
5	3 Core 2.5 Sq mm flat copper Submersible cable having twisted copper conductor	Meter	
6	Single Core 4 Sq mm DC copper cable having twisted copper conductor	Meter	
7	Single Core 6 Sq mm DC copper cable having twisted copper conductor	Meter	
8	S.S. anti-theft nut bolt set M8 ISI standard	Nos	
9	HDPE Role Pipe Size 63 mm, 08 Kg pressure/cm ² , ISI 100 percent Virgin with Min PE100, DN63, PN8 as per IS4984 of 1995 for 02hp & 03Hp and PN10 for 05 HP	Meter	
10	Steel Wire Rope plastic coated size 8 mm	Meter	
	Steel wire rope plastic coated size 10 mm	Meter	
11	Lightening Arrestor set with earthing Kit including chemical earthing as per IS 3043/IEC 60364-5-54/62561-2, LA-14 feet, GI pipe 30mm, GI strip or 10mm GI wire	Set	
12	Chemical Earthing Kit set with tested compound IEC 6235-3	Set	
13	Cable tie UV protected	Nos	
14	Conduit pipe/black drip pipe 2 mm thick ISI make or black drip pipe made up of linesr low density polyethylene for covering back panel wiring	Meter	
15	SS theft proof nut bolt SS304 with washer	Nos	
16	SS Nipple Size 2"	Nos	
17	MS clamp Size 2" with Nut Bolt	Nos	
18	Elbow Size 2"	Nos	
19	Gl Socket Size 2"	Nos	
20	Power Card for pump controller/VFD	Nos	
21	RMS Board for pump controller	Nos	
22	MC4 Connector for panel wiring	Nos	

23	Anteena for RMS/VFD/controller	Nos	
24	Heat Sink for VFD/controller	Nos	
25	On/Off Switch for Controller/VFD	Nos	
26	NRV of all type as per requirement of site	Nos	
27	Suction casing-IP as per requirement	Nos	
28	Sand Guard for pumps	Nos	

Price Bid-D
FOR SUPPLY AND INSTALLATION OF USPC

(Rates in Rs. without GST)

Pump Capacity (HP)	Pump Type	Pump Position	Pump Cooling Category	UOM (Unit of Measurement)	Total Amount (Supply and Installation)
2	AC	Submersible	Water Filled	Nos	
	AC	Surface	Water Filled	Nos	
	DC	Submersible	Water Filled	Nos	
	DC	Surface	Water Filled	Nos	
3	AC	Submersible	Water Filled	Nos	
	AC	Surface	Water Filled	Nos	
	DC	Submersible	Water Filled	Nos	
	DC	Surface	Water Filled	Nos	
5	AC	Submersible	Water Filled	Nos	
	AC	Surface	Water Filled	Nos	
	DC	Submersible	Water Filled	Nos	
	DC	Surface	Water Filled	Nos	

- a. The above rates are including Supply with 05 Years warranty and installation without GST.
- b. Above rates are for anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, 5 years warrantee, as mentioned in the tender document. Above rates applicable for all types of pump models.
- c. The Price bid of proprietary items such as pump, controller, uspc will be compared make wise.
- d. As per GST notification no. 24/2018-Central Tax (Rate) dated 31.12.2018 and 8/2021-Central Tax (Rate) dated 30.09.2021. GST Rate will be applicable under composite supply and installation basis. Rate of GST on supply of Goods (70% of gross consideration treated as supply of Goods) 12% GST and balance portion (30% of gross consideration treated as taxable installation services) 18% GST will be paid extra. No other cost will be claimed other than above quotes price & the applicable GST.

Note: In this regard if there is any change in the composition ratio of goods and services by any Authority/ Courts, same shall be applicable.

Signature of the Authorized Signatory :

Seal of Company :

Date :

Supporting Document for Price Bid

This is a supporting document for Price bid. This rate list has to be uploaded in "excel format only" under Envelop 'C' online in <https://eproc.cgstate.gov.in>.

Price bid -A

FOR SUPPLY AND INSTALLATION OF SUBMERSIBLE/SURFACE PUMP

(Rates in Rs. without GST)

Pump Capacity (HP)	Pump Type	Pump Position	Pump Cooling Category	Make as mentioned in Section 04 tender	UOM (Unit of Measurement)	Rates for supply with 05 year warranty	Rates for Installation
2	AC	Submersible	Water Filled		Nos		
	AC	Surface	Water Filled		Nos		
	DC	Submersible	Water Filled		Nos		
	DC	Surface	Water Filled		Nos		
3	AC	Submersible	Water Filled		Nos		
	AC	Surface	Water Filled		Nos		
	DC	Submersible	Water Filled		Nos		
	DC	Surface	Water Filled		Nos		
5	AC	Submersible	Water Filled		Nos		
	AC	Surface	Water Filled		Nos		
	DC	Submersible	Water Filled		Nos		
	DC	Surface	Water Filled		Nos		

Price bid -B

FOR SUPPLY AND INSTALLATION OF AC/DC Controller & VFD

(Rates in Rs. without GST)

Controller Capacity (HP)	Controller Type	Pump Position	Make as mentioned in section 4 of tender	UOM (Unit of Measurement)	Rates for supply with 05 year warranty	Rates for Installation
2	VFD/AC	Submersible		Nos		
	VFD/AC	Surface		Nos		
	Controller/DC	Submersible		Nos		
	Controller/DC	Surface		Nos		
3	VFD/AC	Submersible		Nos		
	VFD/AC	Surface		Nos		
	Controller/DC	Submersible		Nos		
	Controller/DC	Surface		Nos		
5	VFD/AC	Submersible		Nos		
	VFD/AC	Surface		Nos		
	Controller/DC	Submersible		Nos		
	Controller/DC	Surface		Nos		

Price Bid-C**FOR SUPPLY AND INSTALLATION OF OTHER NECESSARY BOS MATERIAL****(Rates in Rs. without GST)**

S no	Items Description	UOM (Unit of Measurement)	Rates for Supply with 05 Years	Rates for installation
1	Module Mounting Structure for 06 Nos.300Wp Module	Set		
2	Module Mounting Structure for 10 Nos.300Wp Module	set		
3	Solar Module of capacity Min 300 Wp and above	Per Watt		
4	3 Core 4 Sq mm flat copper Submersible cable having twisted copper conductor	Meter		
5	3 Core 2.5 Sq mm flat copper Submersible cable having twisted copper conductor	Meter		
6	Single Core 4 Sq mm DC copper cable having twisted copper conductor	Meter		
7	Single Core 6 Sq mm DC copper cable having twisted copper conductor	Meter		
8	S.S. anti-theft nut bolt set M8 ISI standard	Nos		
9	HDPE Role Pipe Size 63 mm, 08 Kg pressure/cm ² , ISI 100 percent Virgin with Min PE100, DN63, PN8 as per IS4984 of 1995 for 02hp & 03Hp and PN10 for 05 HP	Meter		
10	Steel Wire Rope plastic coated size 8 mm	Meter		
	Steel wire rope plastic coated size 10 mm	Meter		
11	Lightening Arrestor set with earthing Kit including chemical earthing as per IS 3043/IEC 60364-5-54/62561-2, LA-14 feet, GI pipe 30mm, GI strip or 10mm GI wire	Set		
12	Chemical Earthing Kit set with tested compound IEC 6235-3	Set		
13	Cable tie UV protected	Nos		
14	Conduit pipe/black drip pipe 2 mm thick ISI make or black drip pipe made up of linesr low density polyethylene for covering back panel wiring	Meter		
15	SS theft proof nut bolt SS304 with washer	Nos		
16	SS Nipple Size 2"	Nos		
17	MS clamp Size 2" with Nut Bolt	Nos		
18	Elbow Size 2"	Nos		
19	GI Socket Size 2"	Nos		
20	Power Card for pump controller/VFD	Nos		
21	RMS Board for pump controller	Nos		

22	MC4 Connector for panel wiring	Nos		
23	Antenna for RMS/VFD/controller	Nos		
24	Heat Sink for VFD/controller	Nos		
25	On/Off Switch for Controller/VFD	Nos		
26	NRV of all type as per requirement of site	Nos		
27	Suction casing-IP as per requirement	Nos		
28	Sand Guard for pumps	Nos		

Price Bid-D

FOR SUPPLY AND INSTALLATION OF USPC

(Rates in Rs. without GST)

Pump Capacity (HP)	Pump Type	Pump Position	Pump Cooling Category	Make as mentioned in Section 04 tender	UOM (Unit of Measurement)	Rates for supply with 05 year warranty	Rates for Installation
2	AC	Submersible	Water Filled		Nos		
	AC	Surface	Water Filled		Nos		
	DC	Submersible	Water Filled		Nos		
	DC	Surface	Water Filled		Nos		
3	AC	Submersible	Water Filled		Nos		
	AC	Surface	Water Filled		Nos		
	DC	Submersible	Water Filled		Nos		
	DC	Surface	Water Filled		Nos		
5	AC	Submersible	Water Filled		Nos		
	AC	Surface	Water Filled		Nos		
	DC	Submersible	Water Filled		Nos		
	DC	Surface	Water Filled		Nos		

SCHEDULE - I**PART 'A': GENERAL INFORMATION**

(Strike off whichever is not applicable. Separate sheets should be used, wherever necessary)

01. Name & Address of the Bidder :
02. Name & Address of the firm/Company etc. :
- a. Registered office :
- b. Factory/works address :
- c. Fax Nos. :
- d. Telephone / Mobile Nos. :
- e. Email id :
03. Confirm whether bidder is Manufacturer : Yes/No
04. Only manufacturer to give following particulars
- a. Address of factory :
- b. Year of starting manufacture :
- c. Whether same/similar materials :
Manufactured earlier
(if yes, give
reference)
- d. Yearly/monthly production capacity :
- e. Maximum yearly production : Achieved so far
05. Whether the firm is SSI Unit of :
Yes/No Chhattisgarh
State:
- a. If yes, write registration No. :
- b. Whether documentary evidence :
Regarding registration enclosed
- c. Items for registration :
- d. Period of registration :
- e. Whether latest copy Competency/ :
Yes/No Certificate
furnished
06. Whether the firm is 100% owned by
- a. State Government : Yes/No
- b. Central Government : Yes/No
- If yes, Notification/certificate issued from :
Yes/No The
competent authority to this effect is
Enclosed
07. a. Whether the bidder is old participant :
Yes/No with CREDA
- b. If yes, whether documentary :
Yes/No Evidence is
enclosed.
08. Any other information that bidder may like : If yes, give
details to give in order to highlight his bid

PLACE :

SIGNATURE OF BIDDER

NAME IN FULL

DATE:

DESIGNATION/STATUS

FIRM/COMPANY SEAL

SCHEDULE - I

PART 'B' : COMMERCIAL INFORMATION

(Strike off, whichever is not applicable. Separate sheets should be used. Wherever necessary)

- 01. a. Earnest Money Details : Bank draft/Bankers cheque payable to "CREDA", Raipur
- b. Amount of E.M.D. & full details :
- c. Reference of documentary evidence regarding exemption enclosed. : Yes/No
- 02. Whether the offer is valid for 6 months from the date of opening of commercial/technical bid. : Yes/No
- 03. Rate of Sales Tax on the date of bid (Exclusive in the rate quoted) :
- 04. **DISCOUNT:**
 - a. Whether any rebate/discount is offered. : Yes/No
 - b. If yes, whether the rebate is unconditional/ conditional Rate/amount of rebate/discount : Yes/No
 - c. If conditional State condition : Yes/No
- 05. **PAYMENT TERMS:** Whether CREDA's terms of payment is acceptable to bidder : Yes/No
- 06. **COMPLETION PERIOD OF WORK:** Whether bidder is agreeing for completion period of work as Specified in the tender : Yes/No
- 07. **PENALTY CLAUSE:** Whether agreeable to CREDA's Penalty Clause : Yes/No
- 08. Whether agreeable to CREDA's clause of warrantee period : Yes/No
- 09. **SECURITY DEPOSIT:** Whether Security Deposit clause is understood : Yes/No
- 1. Indicate State, Central Sales Tax Registration Number State : Yes/No
Central:
(Please Note that in case of non-registration with Commercial Tax, Department Purchase Tax as admissible shall be deducted by the Purchaser from the Bills of the supplier)
- 2. Please mention whether rates offered are applicable for part quantities. : Yes/No

PLACE:

SIGNATURE OF BIDDER

DATE:

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

SCHEDULE - II**PART 'C': TECHNICAL INFORMATION**

(Strike off whichever is not applicable. Separate sheets should be used. Wherever necessary)

01. Whether material offered is exactly as per technical specification : Yes/No
02. Whether the copies of completion certificate received during last 3 years : Yes/No
From other State Nodal Agency or from other Organization for Solar Pumping systems (if yes, give details) enclosed.
03. Whether pamphlets/technical details literatures along with drawing etc. : Yes/No
furnished with the offer (if yes, give details)
04. Whether the bidder agrees to furnish material test certificates in : Yes/No
respect of chemical composition and physical properties from Govt./ Govt. approved lab with each batch of supplies.
05. Whether the bidder has furnished details of manufacturing : Yes/No
equipments and short history of plant (if yes, give details)
06. Whether details of manufacturing process furnished with offer. : Yes/No
(if yes, give details)
07. a) Whether all testing facilities are available. : Yes/No
If so, give details and in case of non-availability of facilities indicate approved lab available in surrounding areas where tests are proposed to be conducted.

PLACE

SIGNATURE OF BIDDER

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANYSEAL

SCHEDULE - III**TECHNICAL DEVIATIONS**

From,
Bidder Name & Address -

To,
The CE,
CREDA, HO,
Raipur

Sub - Technical Deviations.

Dear Sir,

The technical deviations & variations to the specifications stipulated in the tender, for the item quoted are as under -

Sl.No.	Condition	Clause No. of Tender document	Page No. of Tender document	Statement of deviations and variations

2. Except aforesaid deviations, the entire order, if placed, on us shall be executed in accordance with your specifications and other conditions. Variation/deviations etc. if found, elsewhere in our offer should not be given any considerations while finalizing the tender.

PLACE

SIGNATURE OF BIDDER

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

NOTE-Continuation sheet of like size & format may be used as per bidder's requirements and shall be annexed to this schedule.

SCHEDULE - IV

PAST EXPERIENCE

From :

Bidder's Name & Address -

To,

The SE,

CREDA, HO,

Raipur

Sub - Performance/ Past Experience.

Dear Sir,

We furnish herewith the record of our performance and experience as follows -

Sl.No.	Purchaser's Name & Address	Order No. Date	Ordered Quantity	Qty. supplied (Nos.)	Value of Order
---------------	---	---------------------------	-----------------------------	---------------------------------	---------------------------

PLACE

SIGNATURE OF BIDDER

DATE

NAME IN FULL

DESIGNATION/STATUS

FIRM/COMPANY SEAL

NOTE- Photocopy of the completion certificate received from other State Agencies/Govt. Undertakings etc. should be enclosed.

ANNEXURE - I

FORMAT FOR THE AFFIDAVIT

(Declaration of conflict of Interest)

(Note: This affidavit should be on a non-judicial stamp paper of Rs. 100/- and shall be attested by Magistrate/Sub-Judge/ Notary Public)

I,.....(Name of the bidder authorized representative of the bidder) son/daughter ofresident of (full address), aforesaid solemnly affirm and state as under:

- 1. I hereby certify that all the information furnished with the bid submitted in response to notice inviting bid number 162512/CREDA/REPAIR & Maintenance/2024-25 Dated: 06.12.2024 issued by Chhattisgarh State Renewable Energy Development Agency (CREDA) (authority inviting bids) for SOLAR IRRIGATION PUMP Scheme (name and identification of work) are true and correct.
2. I hereby certify that I have been authorized by..... (Company name) to sign on their behalf, the bid mentioned in sr.no.1 above.*
3. Information furnished in the bidding documents is correct in all respects to the best of my knowledge and belief.
4. The near relations as per clause 30(A), in CREDA, are not in employment of the firm/company. (Note:-By the term near relatives is meant Wife, Husband, Parents and Son, Brother, Sister, Brother-in-law, Father-in-law, Mother-in-law etc.) (if working mention the name/names)
5. The name of near relative (if any) as per Clause 30(B) who retired/removed within the last two years. (If None, clearly State None)
6. No near relative is working as Financial Accountant in the CREDA. (if working mention the name)
7. No person is working in the company in any capacity, who are near relatives to any Officer in Chhattisgarh State Renewable Energy Development Agency (CREDA) (If working mention the name)

- 8. Our company/firm/ or otherwise is not under the clarification of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government. as mention in clause 1(F) of tender document.
- 9. I hereby authorize the CREDA Officials to get all the documents verified from appropriate sources (s).

Deponent

Place :

Date :

* Not applicable if the bidder is an individual and is signing the bid on his own behalf.

Verification

I..... S/o... do here by affirm that contents stated in Para 1 to 09 above and contents submitted in technical & financial bid are true to the best of my knowledge and believe and are based on my/our record.

Verified that this date of at (Place).....

Deponent

ANNEXURE - II

DRAFT AGREEMENT

CONTRACT AGREEMENT BETWEEN Executive Engineer Chhattisgarh State Renewable Energy Development Agency (CREDA) Raipur AND M/s..... Represented byTHIS CONTRACT AGREEMENT against Tender No. 162512/CREDA/REPAIR & MAINTENANCE/2024-25 Dated: 06.12.2024 (also referred to as "Service Contract") is made on theday of 2024.

BETWEEN

- (1) Executive Engineer Chhattisgarh State Renewable Energy Development Agency (CREDA) Raipur a society incorporated under the laws Society Registration Act 1973 , (1973 , Sr. No. 44) (with amendment from time to time) and having its Registered Office at VIP Road Near Energy Education Park, Village- Fundhar, Raipur and (hereinafter called "The Employer" and also referred to as "CREDA")

And

- (2)Represented bya company incorporated under the laws of Companies Act 1956/2013/ Partnership firm/ Proprietorship firm/Consortium (as applicable, with amendment from time to time) and having its Principal place of business at.....and Registered Office at.....hereinafter called "The Contractor" and referred to as "....."

Whereas the contractor has offered to enter into contract with the said CREDA for supply and installation for replacement of submersible/Surface Pumps(AC/DC), Controller of various capacities and make, HDPE pipe, Solar Module, Module Mounting Structure, and other BOS of solar irrigation pump installed under various phases of "SAUR SUJLA SCHEME" in the state of Chhattisgarh Vide Tender No. 162512/CREDA/ REPAIR & MAINTENANCE/2024-25 Date 06.12.2024 on the terms and conditions herein contained and the rates approved by the CREDA (Letter No.

..... datedannexed here to) have been duly accepted and whereas the necessary security deposit shall be furnished in accordance with the provisions of the tender document and whereas no interest will be claimed on the security deposits.

Now these presents witness and it is hereby agreed and declared by and between parties to these presents as follows-

1. The Contractor shall, during the period of this contract, that is to say from.....to or completion thereof, until this Contract shall be determined by such notice as is hereinafter mentioned, safely carryout, by means of labours employed at his own expenses and by means of tools, implements and equipment etc. to be supplied by him to his labour at his own expenses, for supply and installation for replacement of submersible/Surface Pumps(AC/DC), Controller of various capacities and make, HDPE pipe, Solar Module, Module Mounting Structure, and other BOS for repairing of solar irrigation pump installed under various phases of "SAUR SUJLA SCHEME" as described in tender documents. (Annexed to the agreement).
2. The NIT (Notice Inviting Tender), Corrigendum to NIT, Notices, Bid documents (Qualifying, Technical and Financial), approved rates annexed hereto and such other additional particulars, undertaking, instructions, general conditions of contract, Scope of work, Technical specifications of items and Annexure therein, engineering documents, detailed specifications of BOS & drawings, so far they relate to the Tender No. 162512/CREDA/ REPAIR & MAINTENANCE/2024-25 Dated: 06.12.2024 and corresponding corrigendum / amendments if any, as may be found requisite to be given during execution of the work shall be deemed and taken to be an integral part of the

contract and shall also be deemed to be included in the expression "The Agreement or "The Contract "wherever herein used.

3. The contractor shall also supply the requisite number of workmen with means & materials as well as tools, appliances, machines, implements, vehicles for transportation, cartage etc. required for the proper execution of work within the time prescribed in the work orders and /or as per the tender conditions.
4. The Engineer in Charge or his authorized representative (s) shall be entitled at all reasonable times to inspect and supervise and test during installation and commissioning. Such inspection will not relieve the eligible bidder from their obligations under this contract.
5. Material can be inspected before dispatch or in transit by the authorized representatives of CREDA at the factory at the cost of the eligible bidder, if desired by CREDA. CREDA reserves right to inspect the material at Godowns/Temporary Stores before dispatch and also at works sites.
6. CREDA shall deduct TDS for Income Tax, applicable cess on Civil Work etc. under various acts and deposited with the appropriate authority. Costs and taxes before execution of agreement with CREDA so as to ensure tax deposition as per Government Rules accordingly.

7. **ELIGIBLE SYSTEM INTEGRATOR'S LIABILITY IN CASE OF DEFAULT -**

CREDA may by written notice of default to the eligible bidder, terminate the contract in circumstances detailed hereunder -

- a. If in the opinion of the CREDA, the eligible bidder fails to complete the work within the time specified in the sanction order or within the period for which extension has been granted by CREDA to the eligible bidder.
- b. If in the opinion of CREDA, the eligible bidder fails to comply with any of the provisions of this contract.
- c. In the event of CREDA terminating the contract in whole or in part as provided in paragraph (a) above, CREDA reserves the right to engage another eligible bidder or agency upon such terms and in such a manner as it may deem appropriate and the eligible bidder shall be liable to CREDA for any additional costs due to the cost inflation in delayed period or any losses caused to CREDA as may be required for the completion of work and or for penalty as defined under this tender document until such reasonable time as may be required for the final completion of the work.
- d. In the event CREDA does not terminate the contract as provided in paragraph (a) the eligible bidder shall continue performance of the contract; in which case he shall be liable to CREDA for penalty for delay as set out in this tender document until the work is completed.

8. **FORCE MAJEURE -**

The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as of God, acts of public, enemy, LWE problems, acts of government, cyclone, fires, floods, epidemics/pandemics, quarantine restrictions, lockdown, strikes, freight embargoes provided that if bidder shall submit delay notice with appropriate cause of delay to the CREDA in writing within **15 days** of force majeure. CREDA shall verify the facts and may grant such extension as facts justify. Delay in supply of any item by the related vendors, to whom the bidder has placed order, shall also not be treated as force majeure.

9. REJECTION OF WORKS -

In the event of any of the material supplied/work done by the eligible bidder is found defective in material or workman ship or otherwise not in conformity with the requirements of this contract specifications, CREDA shall either reject the material and/or work and advise the eligible bidder to rectify the same.

CREDA may impose penalty for such rejection up to the 200% cost of the entire system. Habitual/repeated offenders shall be black listed/debarred to participate in the any Tender/ Activity of CREDA till further orders. The eligible bidder on receipt of such notices shall rectify or replace the defective material and rectify the work free of cost. If the eligible bidder fails to do so CREDA may -

- a. At its option replace or rectify such defective materials and/or work and recover the extra cost so involved from the eligible bidder plus **15%** service charges of the cost of such rectification, from the eligible bidder and/ or terminate the contract for balance work/ supplies with enforcement of penalty as stated above.
- b. Defective materials/workmanship will not be accepted under any conditions and shall be rejected outright without compensation. The eligible bidder shall be liable for any loss/damage sustained by CREDA due to defective work **with enforcement of penalty as stated above.**

10. EXTENSION OF THE TIME -

If the completion of supply/work is delayed due to any reason beyond the control of the eligible bidder, the eligible bidder shall without delay give notice to the CREDA in writing of his claim for an extension of time. CREDA on receipt of such notice may or may not agree to extend the contract/delivery date of the Solar System as may be reasonable but without prejudice to other terms and conditions of the contract.

Chief Executive Officer, CREDA has full right for unconditional time extension.

11. PENALTY FOR DELAY IN COMPLETION OF CONTRACT-

- a. If the eligible bidder fails to complete the assigned work within the schedule time specified in the Work Order or any extension granted there to, CREDA will recover from the bidder as penalty of up to two percent (2%) per month of the system price excluding GST for every delayed system. For this purpose, the date of taking over shall be reckoned as the date of completion. The total penalty shall not exceed 10% (Ten percent) of the cost in 05 months. The eligible bidder shall not be liable for any penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE.
- b. Review of the progress of work order allocated to bidders shall be done time to time by CREDA and if the progress of work/supply is found unsatisfactory, the allocation of entire remaining work/supply or their part of can be re-allocated to other bidder as per discretion of CREDA.
- c. In case of not completion of work by bidder after maximum penalty period i.e. 05 month from last date of completion. The work shall be allocated to other System Integrator as describe in above point 15 b.

In this case the escalated cost of the system shall be recovered from S.D. and/or EMD in all project of bidder failing compliance of allocated work within stipulated and extended time for completion of work.

12. PENALTY DUE FROM THE ELIGIBLE BIDDER -

All costs of damages and delays for which the eligible bidder is liable to the CREDA will be deducted from any money due to the eligible bidder including the security deposit of any project under CREDA.

13. RESPONSIBILITY OF ELIGIBLE BIDDER -

Notwithstanding anything mentioned in the specifications of subsequent approval or acceptance of the WORK/SUPPLY by CREDA, if any, the ultimate responsibility for satisfactory performance of the entrusted work shall rest with the eligible bidder. If in any case the eligible bidder does not complete the work as per the work orders issued to them then CREDA may take over the task & complete the project at the risk and cost of eligible Bidder.

14. RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE -

If any loss or damage occurs to the work or any part thereof or materials/plant/equipment is for incorporation therein the period for which the eligible bidder is responsible for the cause thereof or from any cause whatsoever, the eligible bidder shall at his own cost rectify/replace such loss or damage, so that the permanent work confirms in every respect with the provision of the contract to the satisfaction of the Engineer. The eligible bidder shall also be liable for any loss or damage to the work/equipment's occasioned by him in course of any operation carried out to him during performing the contract.

Care should necessarily be taken to make the supplied part operational, once the reporting of the fault/non-operational status is done, within **07 days**. If the supplied component is not made operational within **15 days**, the rectification/replacement (keeping the same configuration in consideration) will be done by CREDA at the risk and cost of system integrator, after rectification / replacement the warranty clause will remain compliable as per tender conditions and if the system integrator fails to rectify the faulty system within 30 days then this may lead to blacklisting and debarment of bidder from all the activities of CREDA for 03 Years.

15. RESPONSIBILITY TOWARDS THE WORKMAN OR OUTSIDERS -

- a. The eligible bidder shall have to take insurance coverage from any authorized Insurance Company against Workmen compensation due under Workmen Compensation Act and submit copy of the insurance document before issuance of Sanction order if required.
- b. The eligible bidder shall ensure all safety measures during execution and repairs of the work. CREDA, will, in no case be responsible for any accident fatal or non- fatal, caused to any workman or outsider in course of transport or execution or repairs of work.
- c. All the expenditure including treatment or compensation will be entirely borne by the eligible bidder. The eligible SI shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations.
- d. Bidder shall have to submit JCCs within **20 days** after supply of material in District Office of CREDA.

16. Contractor shall provide 05-year warranty in all the items from the date of supply as per the terms & conditions prescribed in the Tender No. 162512/CREDA/ REPAIR & MAINTENANCE/2024-25 Dated: 06.12.2024.

17. DECLARATION OF CONFLICT OF INTEREST -

- a. Any regular employee working or worked on basis of contract or through placement agency cannot work directly or indirectly in any scheme of CREDA. If such a person is found working with any bidder then, such bidder shall be blacklisted for three years.

b. The bidder shall not be permitted to Bid for the work if the section of HO CREDA (responsible for implementation of work) in which his near relative is posted. Furthermore, the successful bidder shall not be given work in the district in which his near relative is posted. The bidder shall also intimate the names of his near relatives working in CREDA. Bidder shall also intimate the name of persons who are working with him in any capacity and who are near relatives to any employee in CREDA. Any breach of this condition by SI would render himself liable to be blacklisted for three years and removed from approved list of SIs in CREDA.

Note:- By the term near relatives are meant Wife, Husband, Parents and son, Brother, Sister, Brother-in-law, Father-in-law, and Mother-in-law etc.

c. Bidder must produce an affidavit (Annexure – IV) stating the names of retired/removed employee of CREDA (if any) in his employment who retired /removed within last two years, if in case there is no such person in his employment, his affidavit should clearly state this fact. This affidavit is mandatory, if it is not produced along with the bid, the bid shall be rejected.

18. The contractor shall abide by the terms and conditions, rules, guidelines, construction practices, safety precautions etc. stipulated in the tender document including any correspondence between the contractor and the CREDA having bearing on execution of work and payments of work to be done under the contract.

19. The contractor shall be responsible to follow all the laws including Workmen Compensation Act and all other laws in force & shall be responsible for all the obligations towards labour including EPF, ESI, etc.

20. All the taxes deductible at source as per Acts in vogue shall be recovered by CREDA and deposited with the appropriate authorities.

21. Contractor agrees to abide by any decision/instruction passed by the appropriate authority under Anti-profiteering rules notified by the state/central government under GST act.

22. Any dispute arising out of the contract shall be subject to and resolved as per the decision of C.E.O., CREDA.

"I/we hereby state that we have provided information of our near relatives as stated in the affidavit attached at "Annexure- I".

"Herewith everything and anything contained in Tender document no. 162512 /CREDA/REPAIR & MIANTENANCE/2024-25 Dated: 06.12.2024 and corresponding corrigendum/ amendments if any, is part of this agreement which has been dully signed by both bidder and authorized signatory of CREDA".

In witness whereof the parties present today has hereby entered into agreement.

**Signed & sealed on behalf of the above
Named contractor**

Signed on behalf of CREDA
Name :.....
Designation: **Executive Engineer**

Witness:

1. Name:-.....

2. Name:-.....

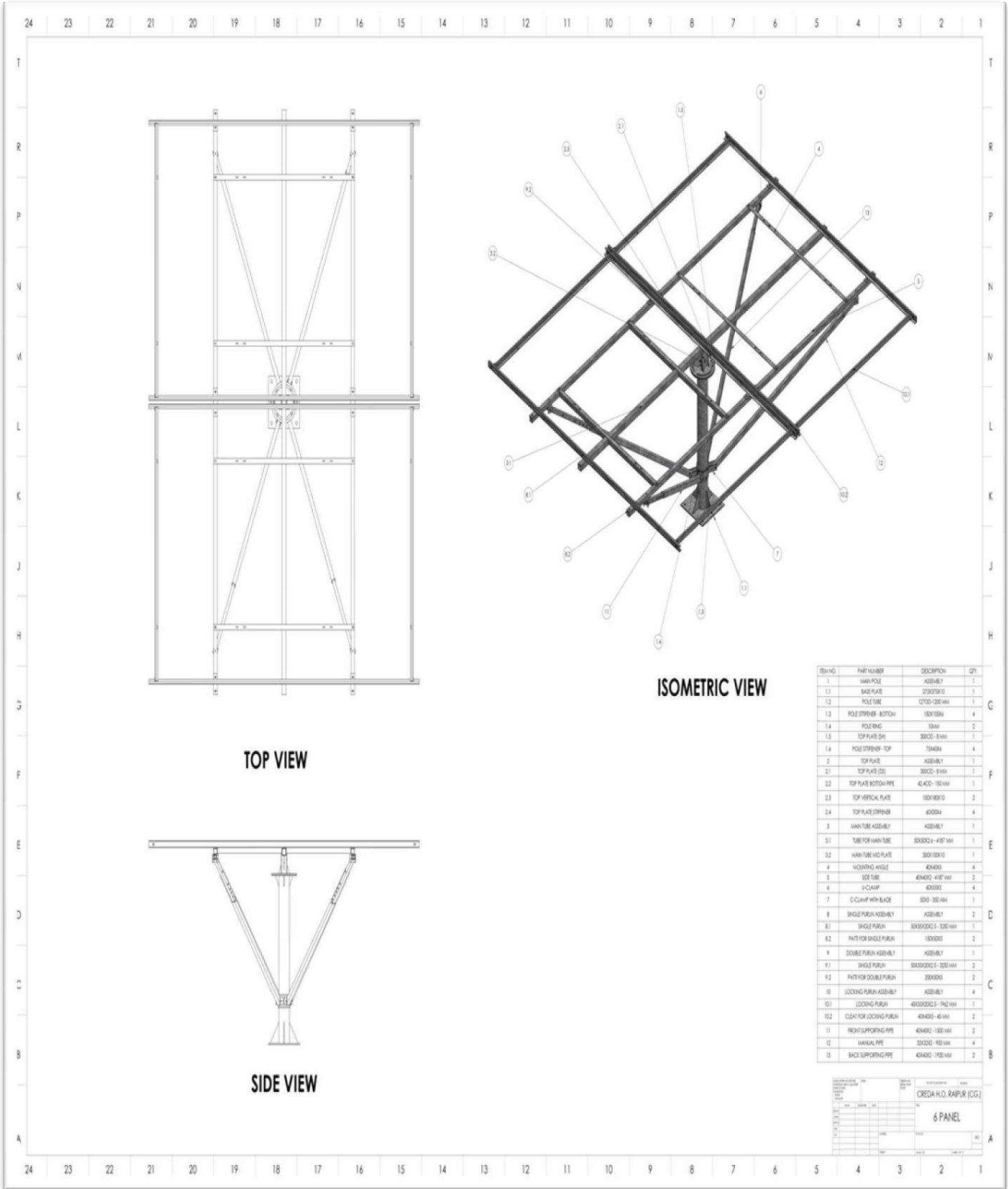
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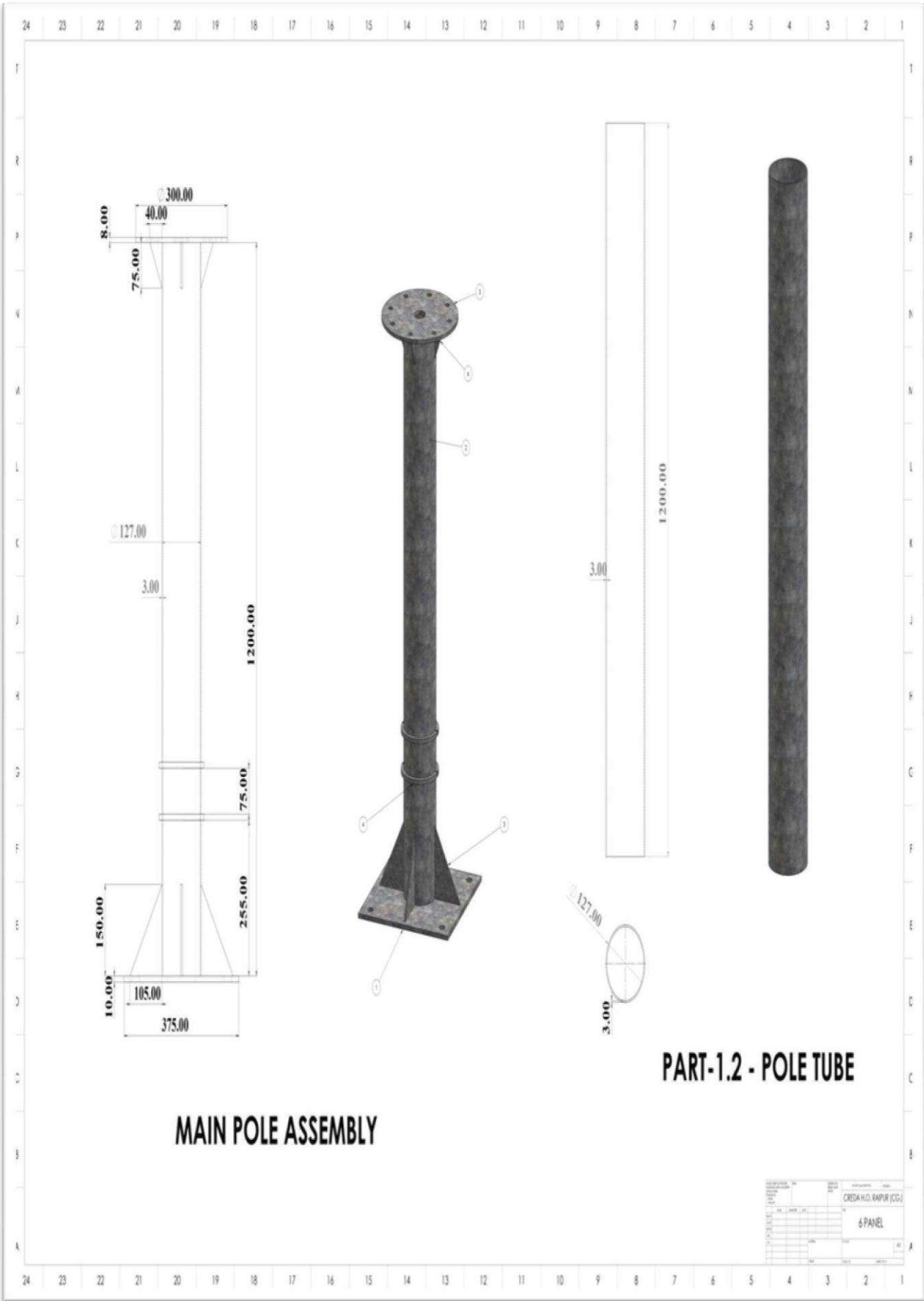
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Complete Drawing of Module Mounting Structure

Drawings of 06 nos. MMS for 320 Wp and above

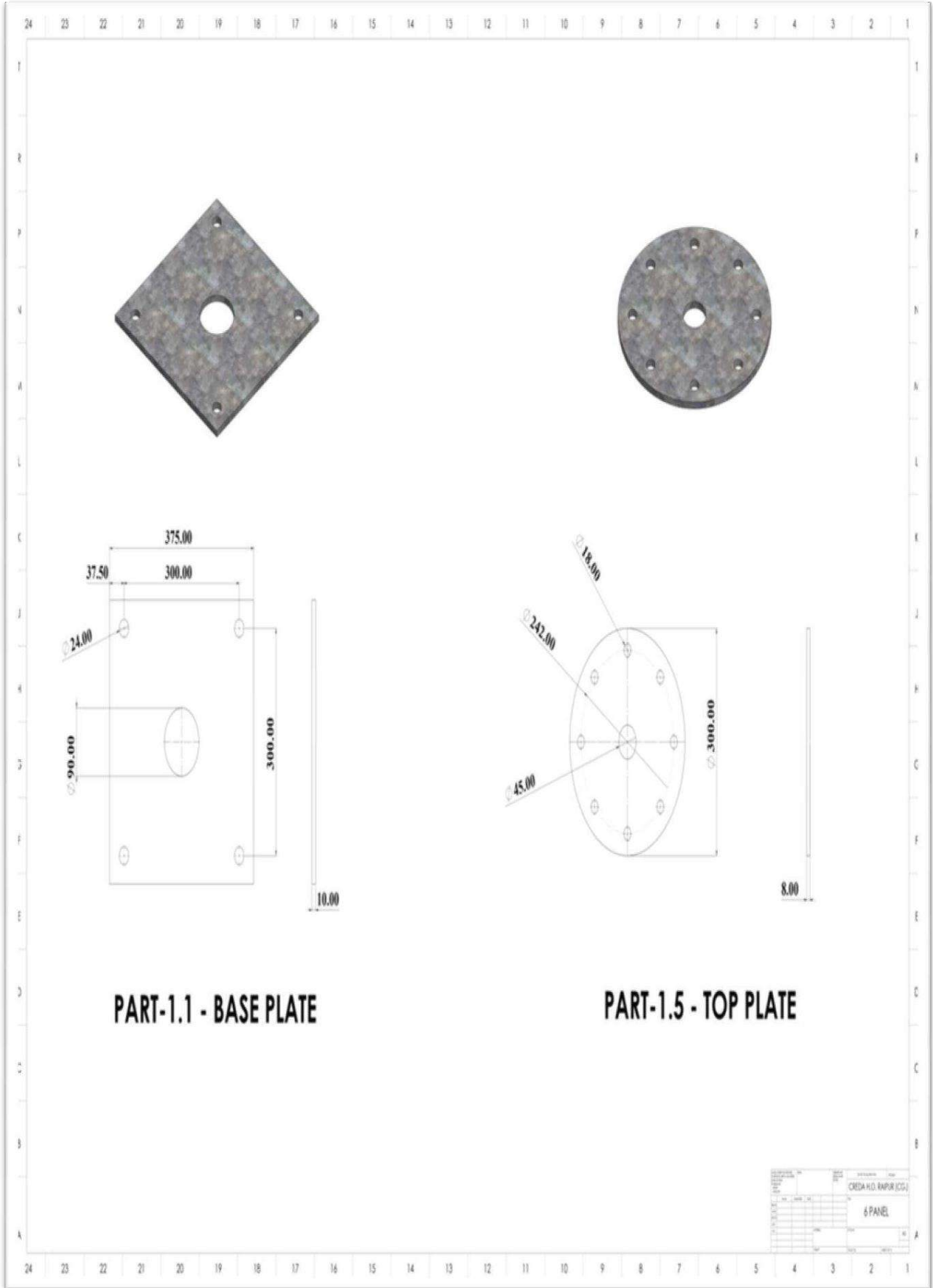
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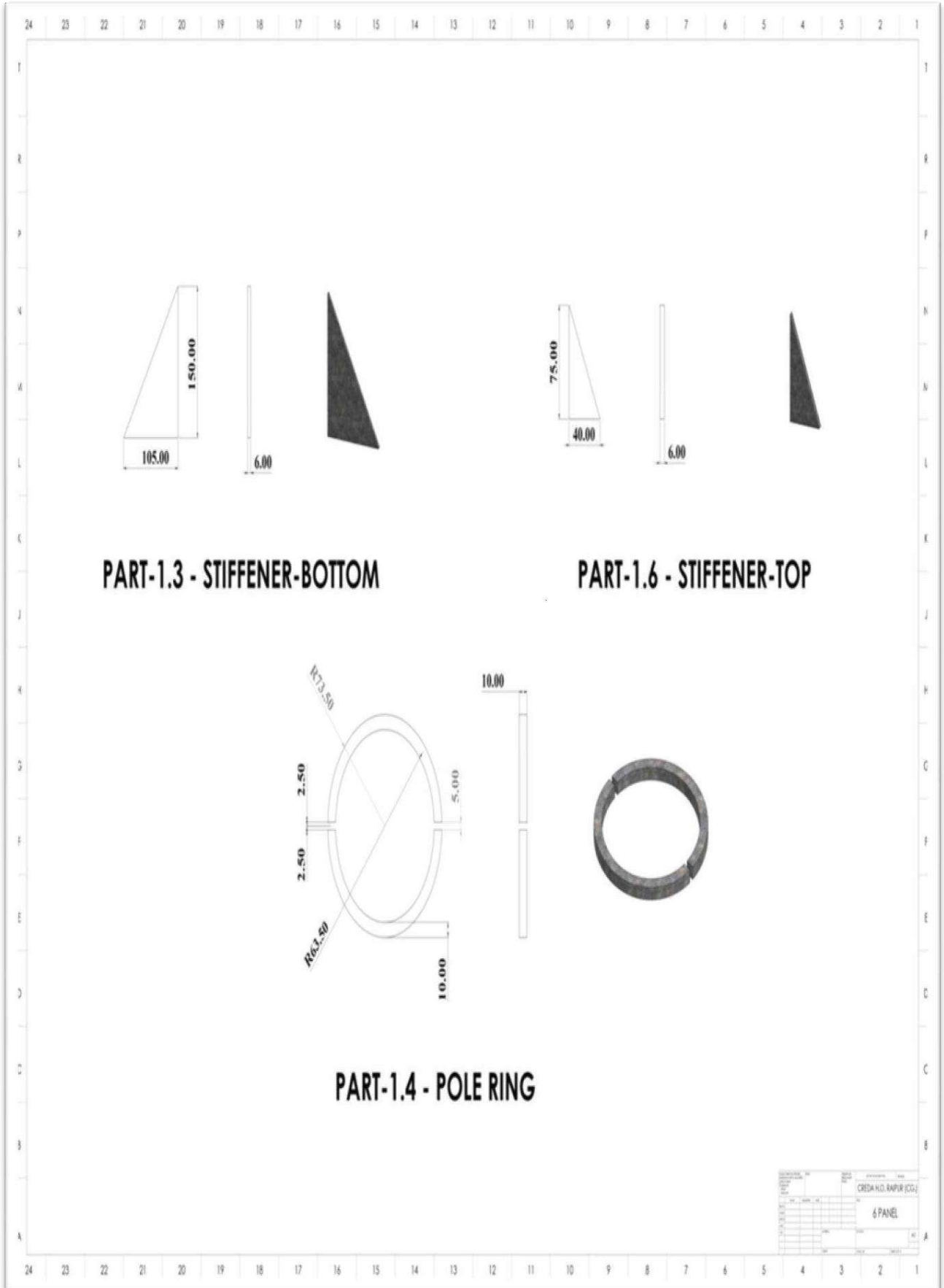




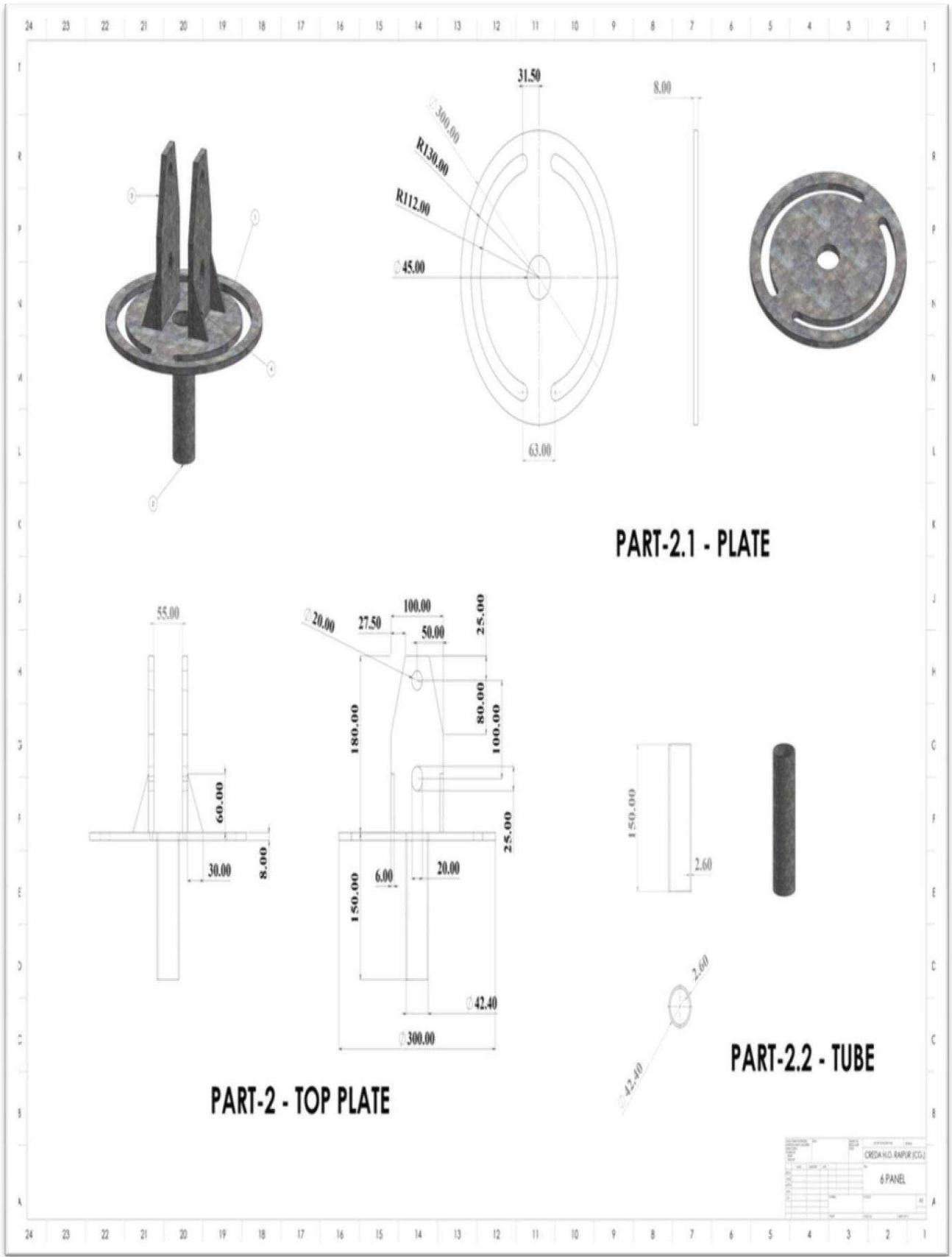
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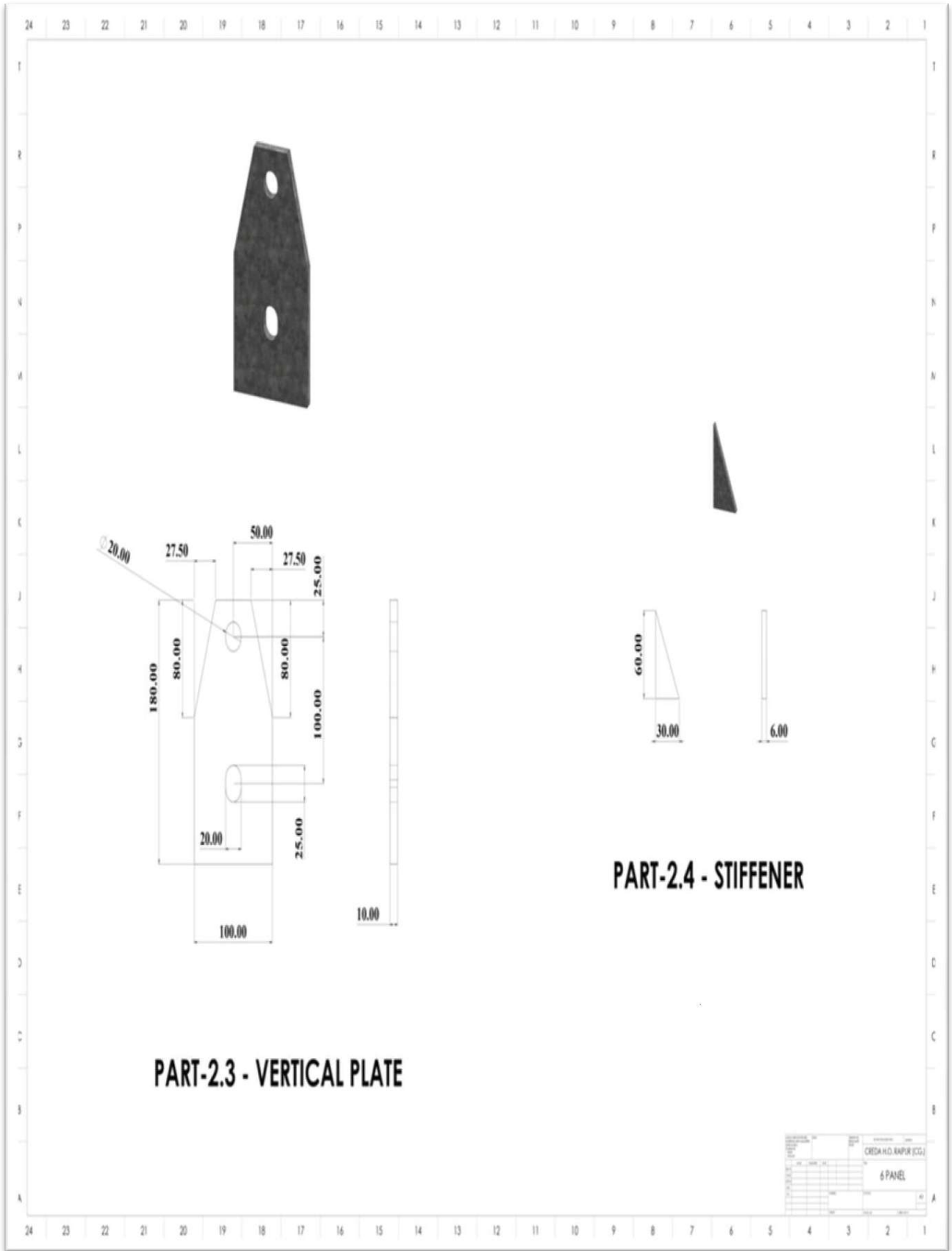
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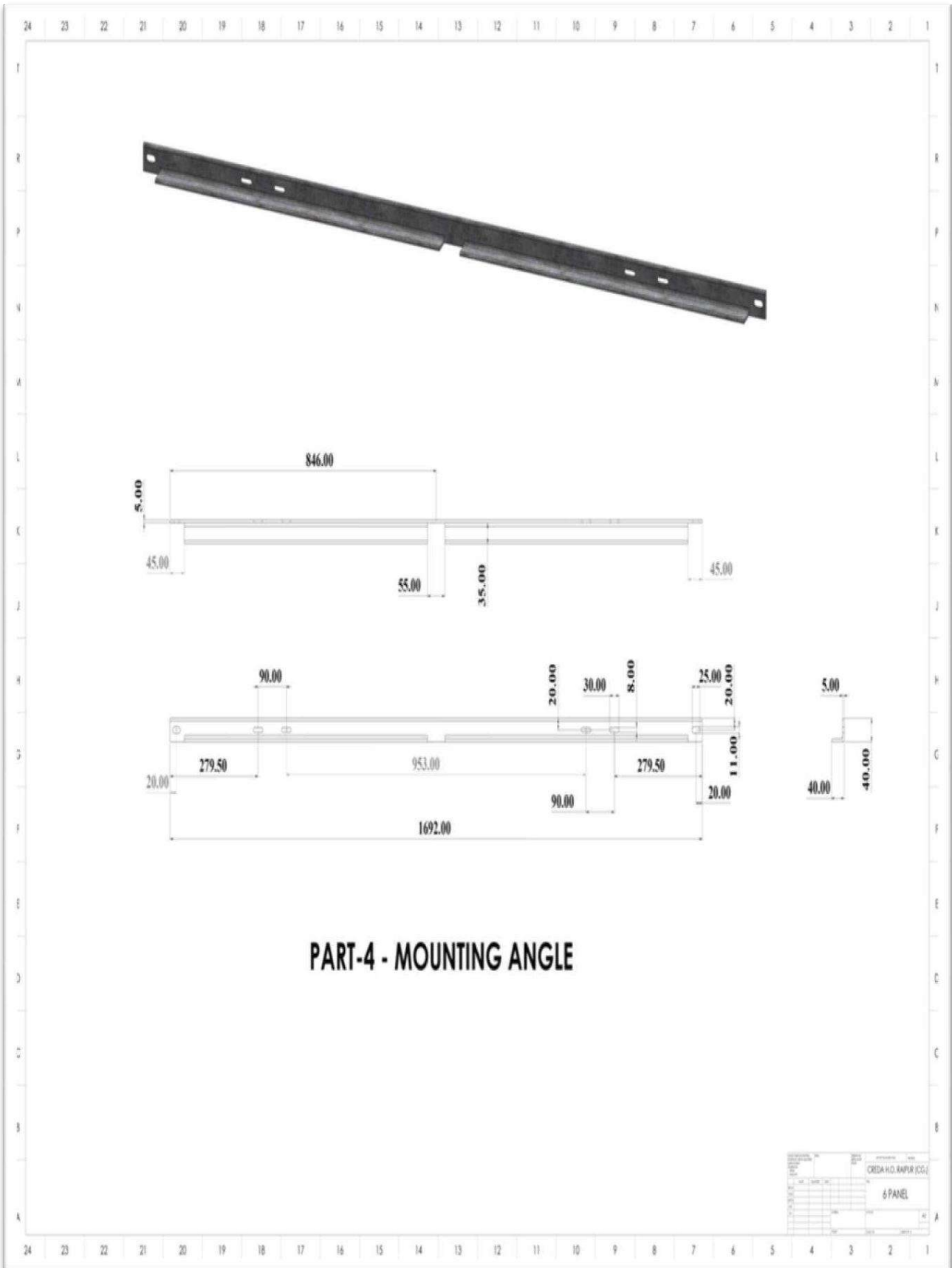


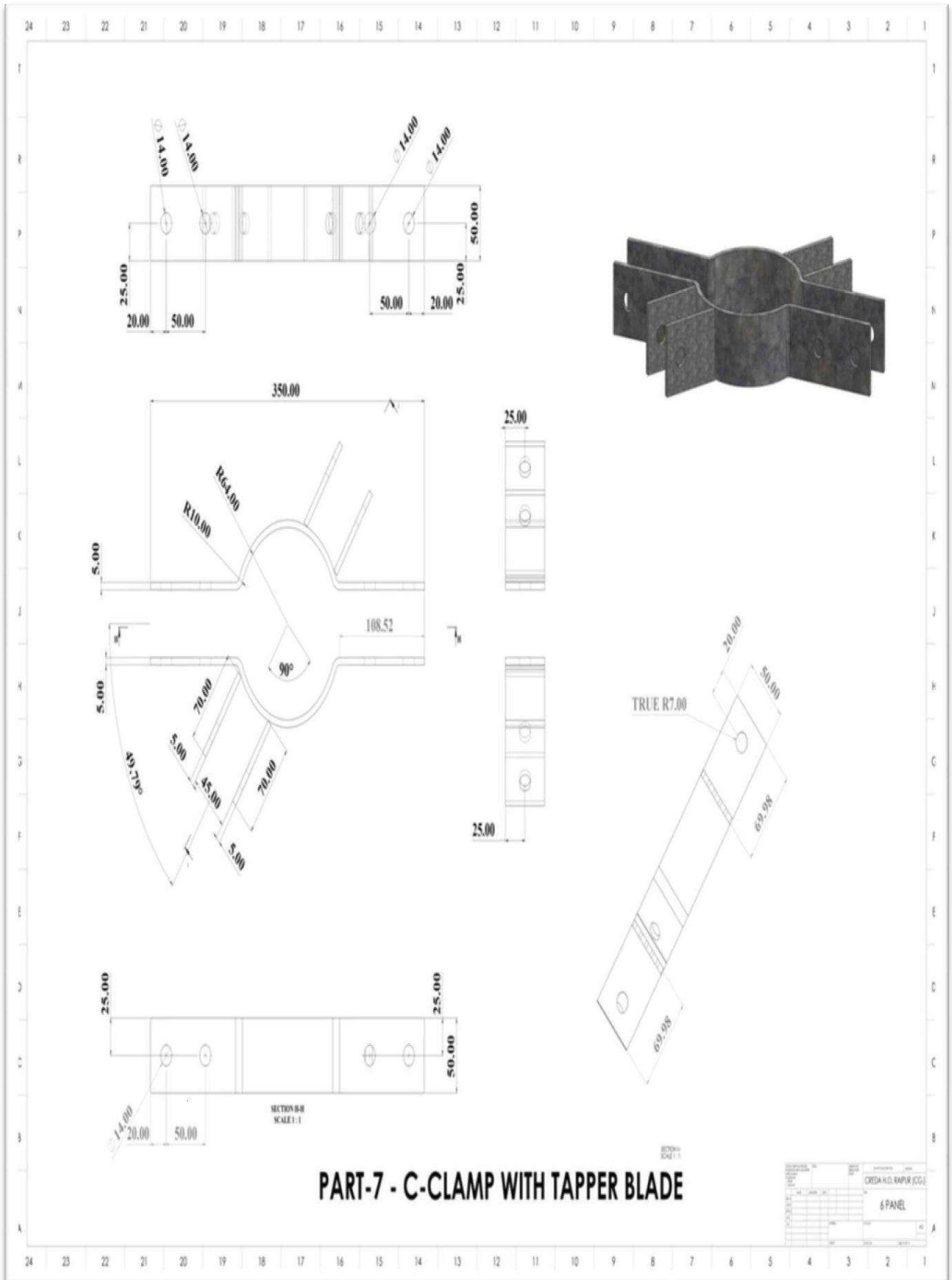
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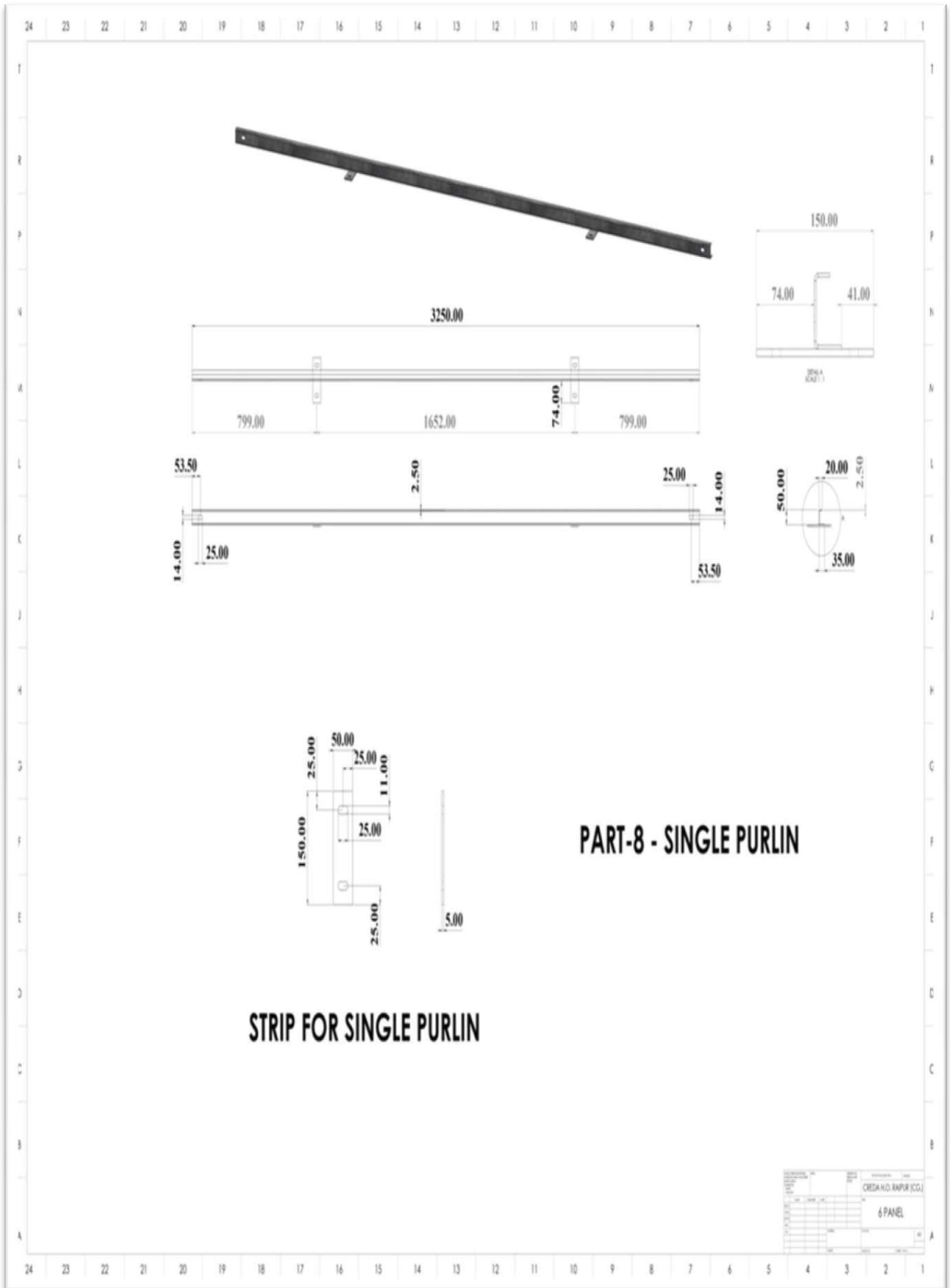


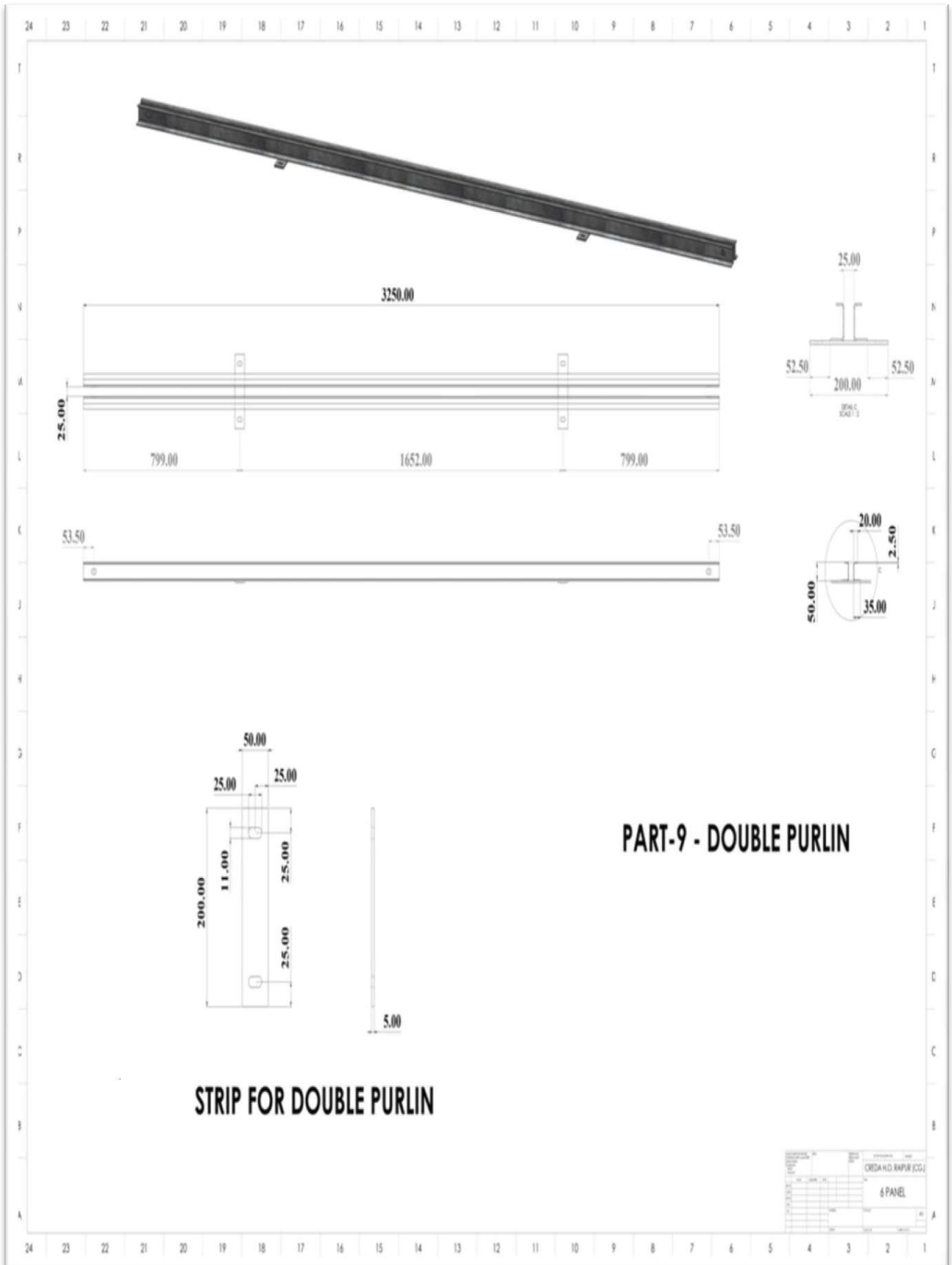


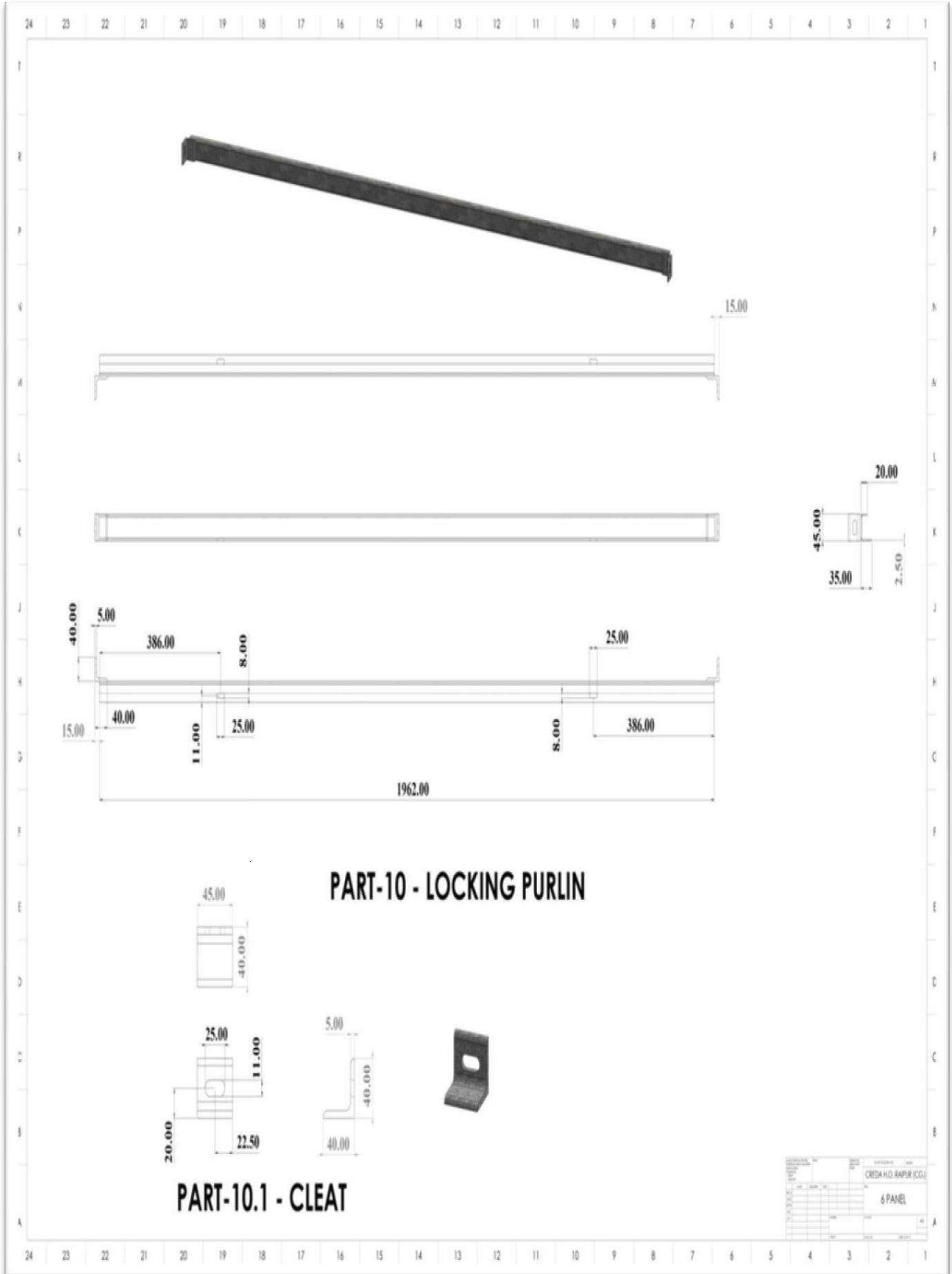
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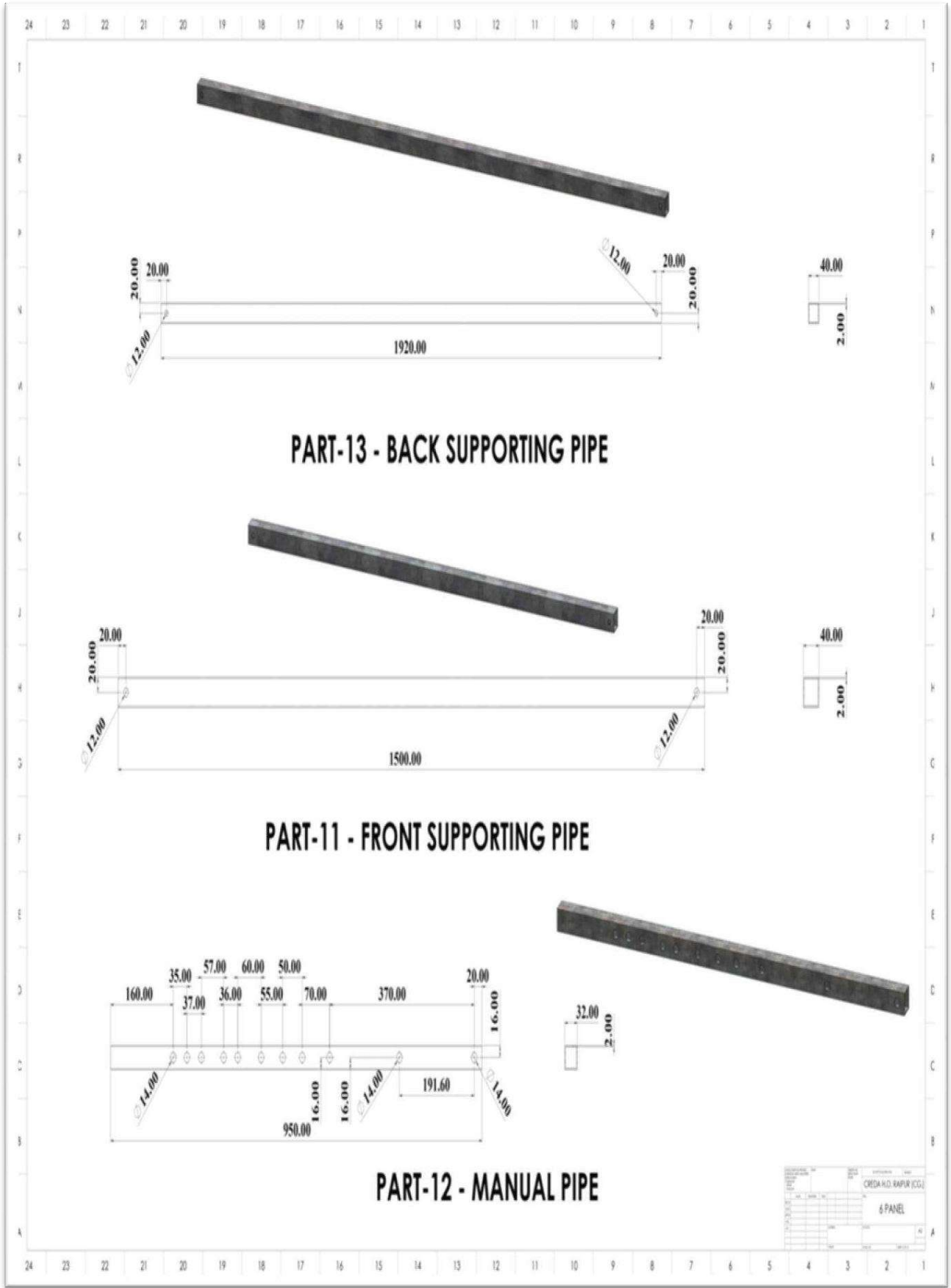


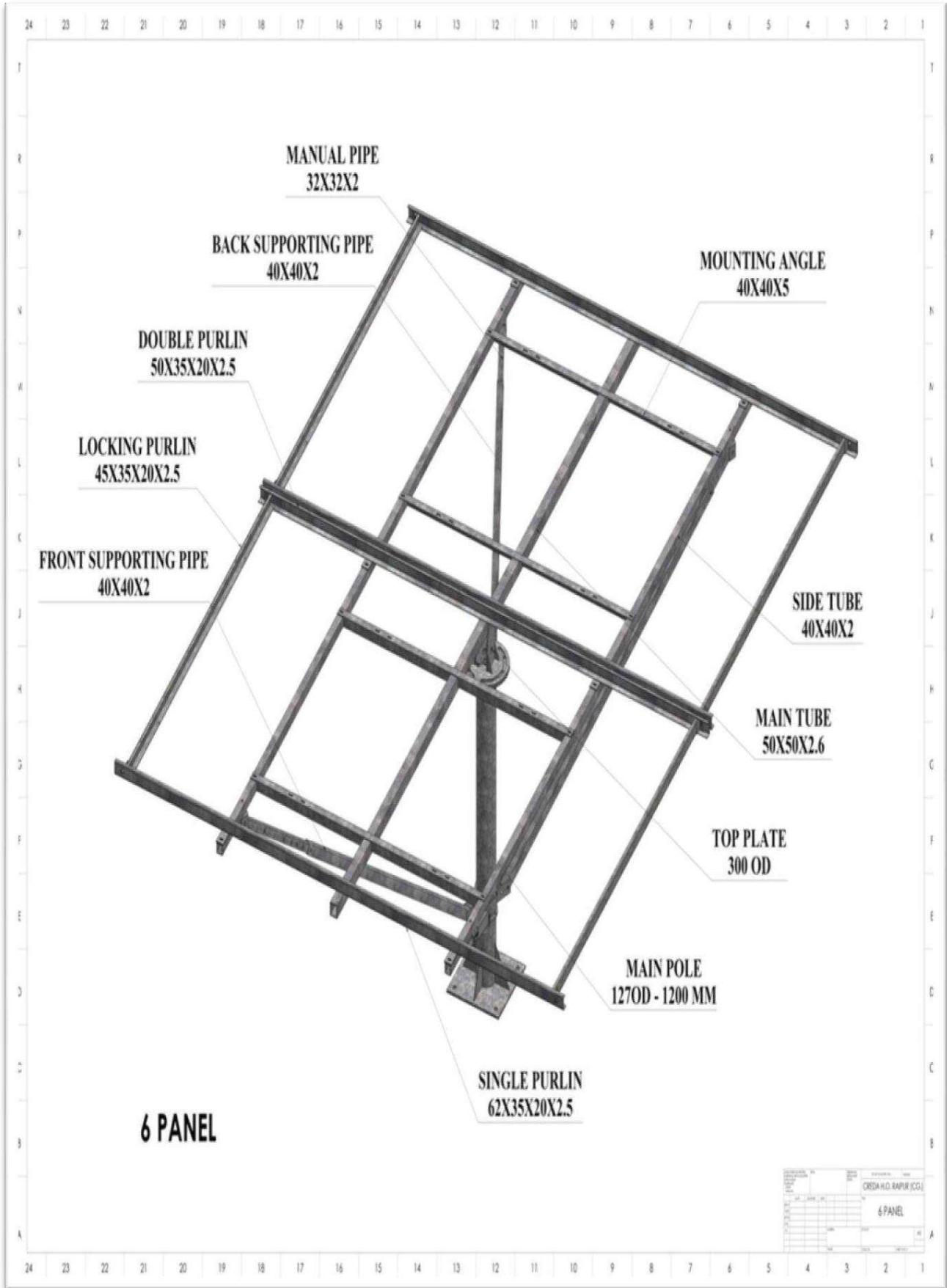




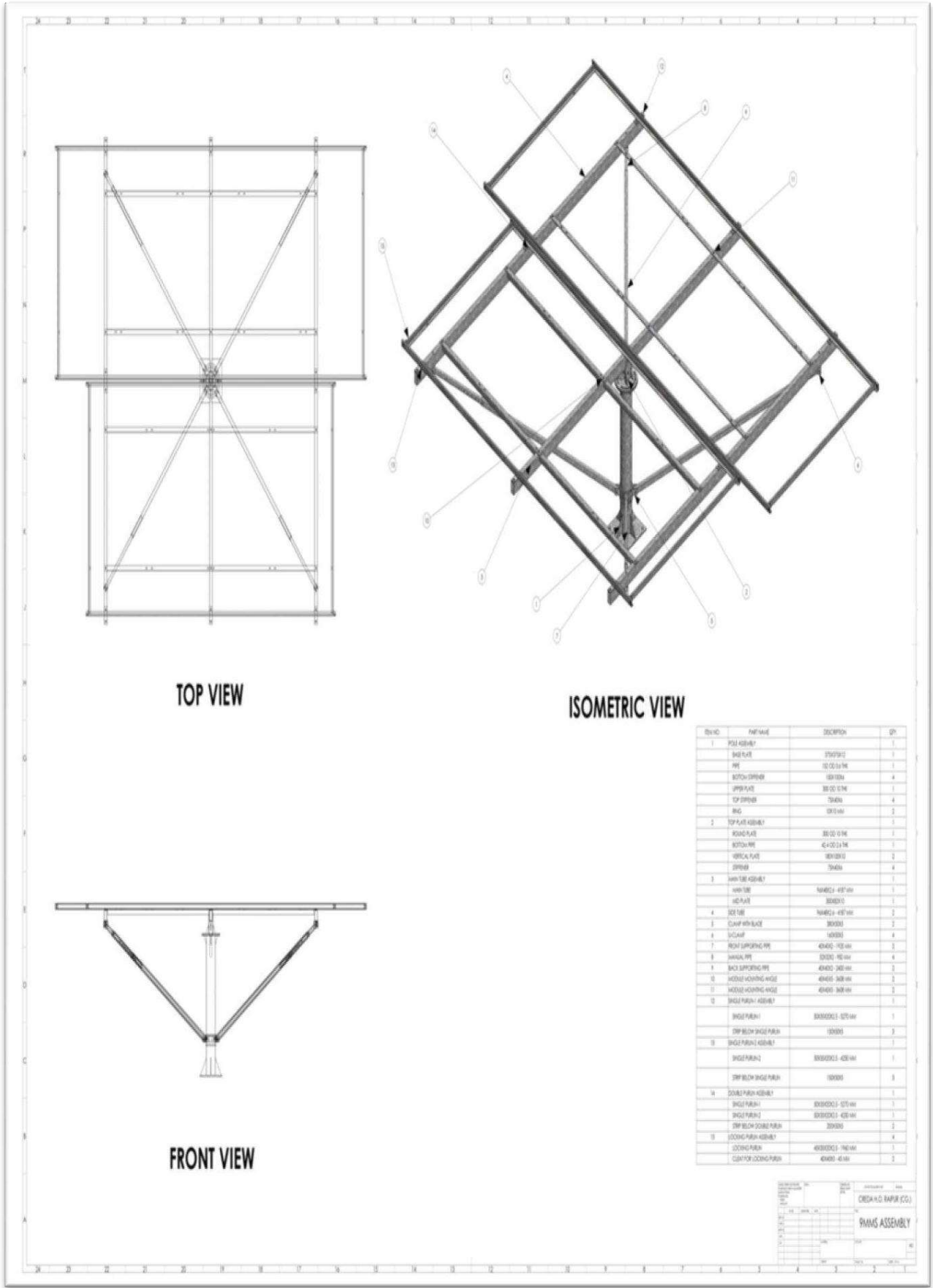


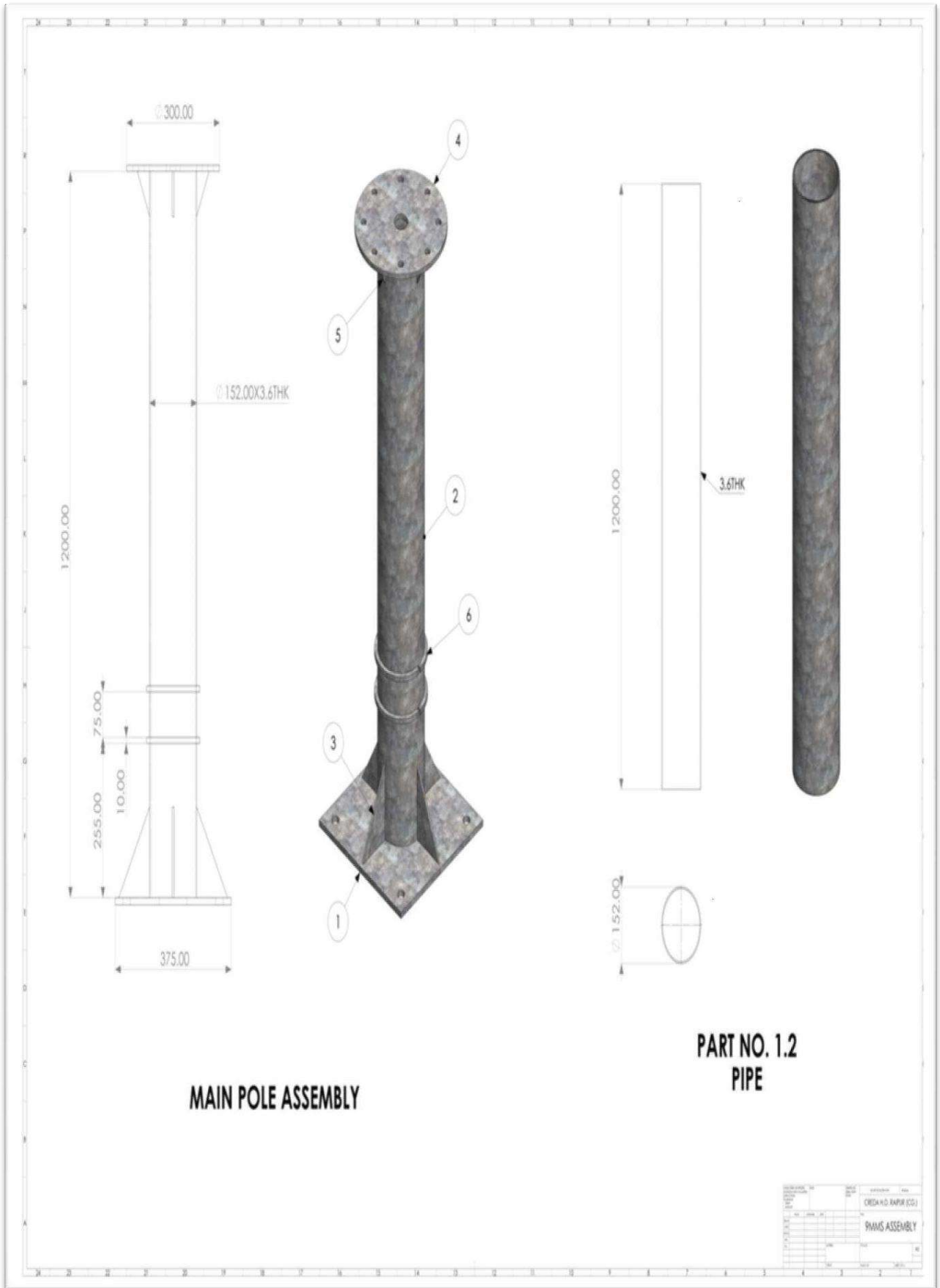


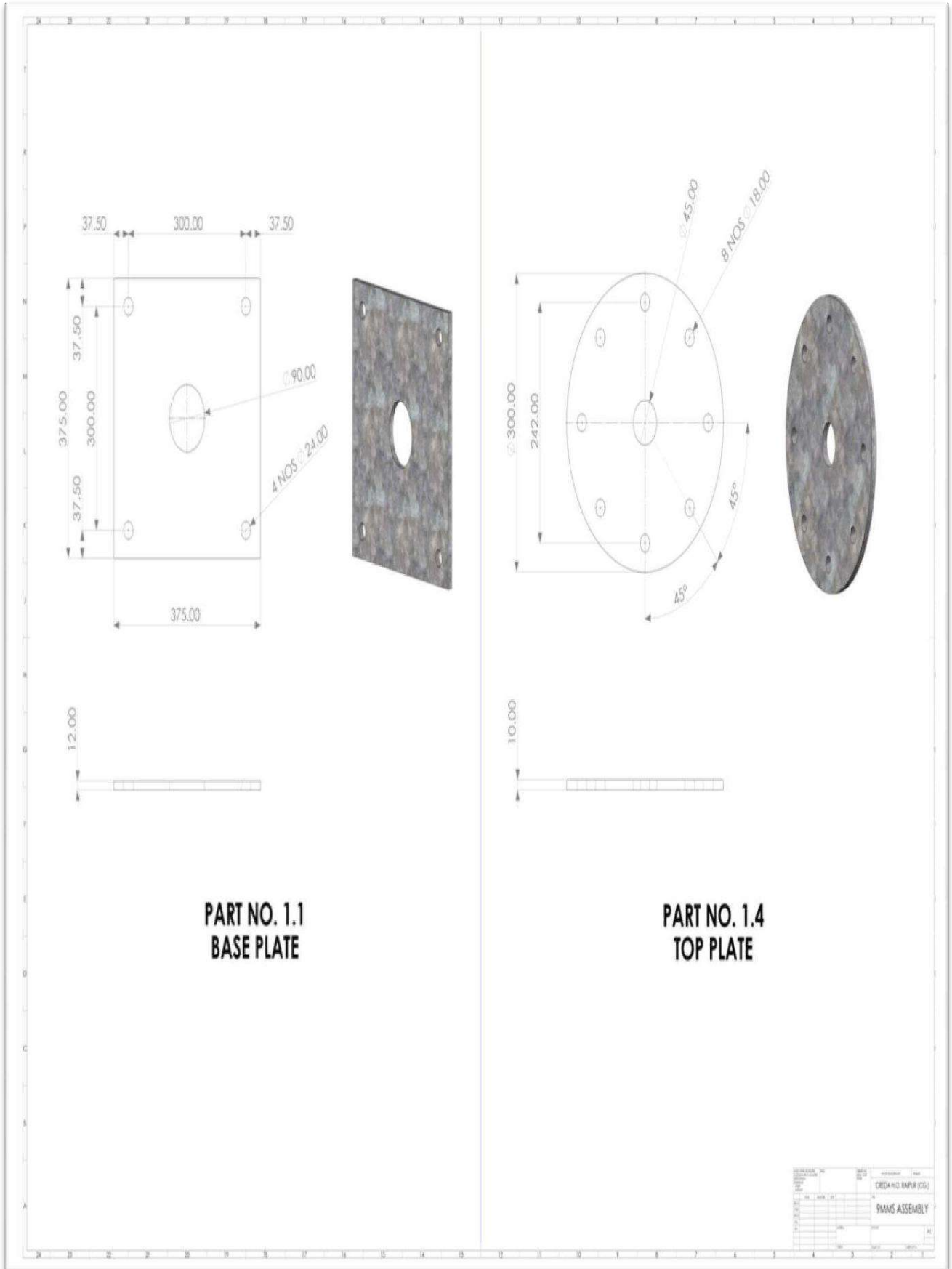


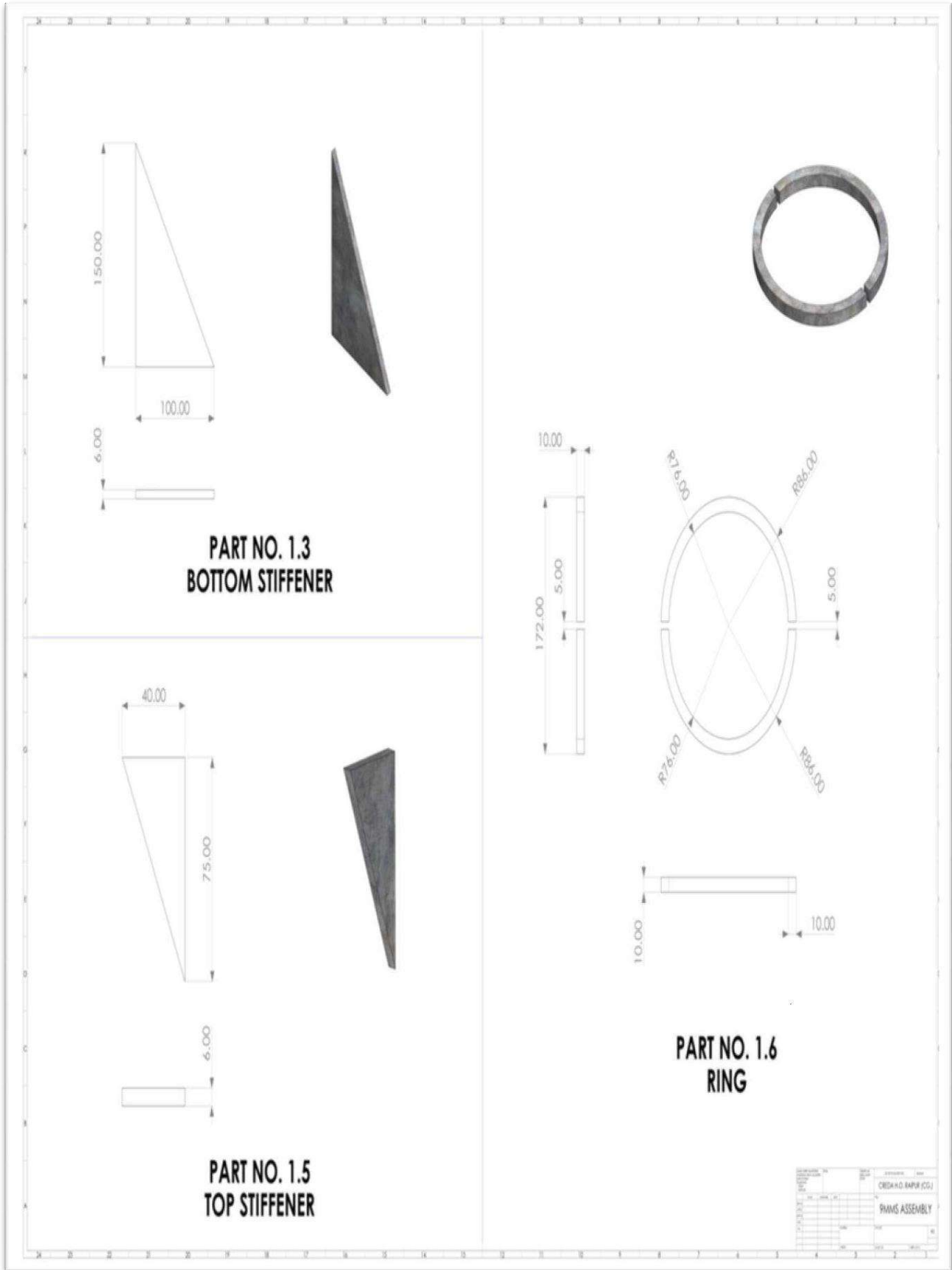


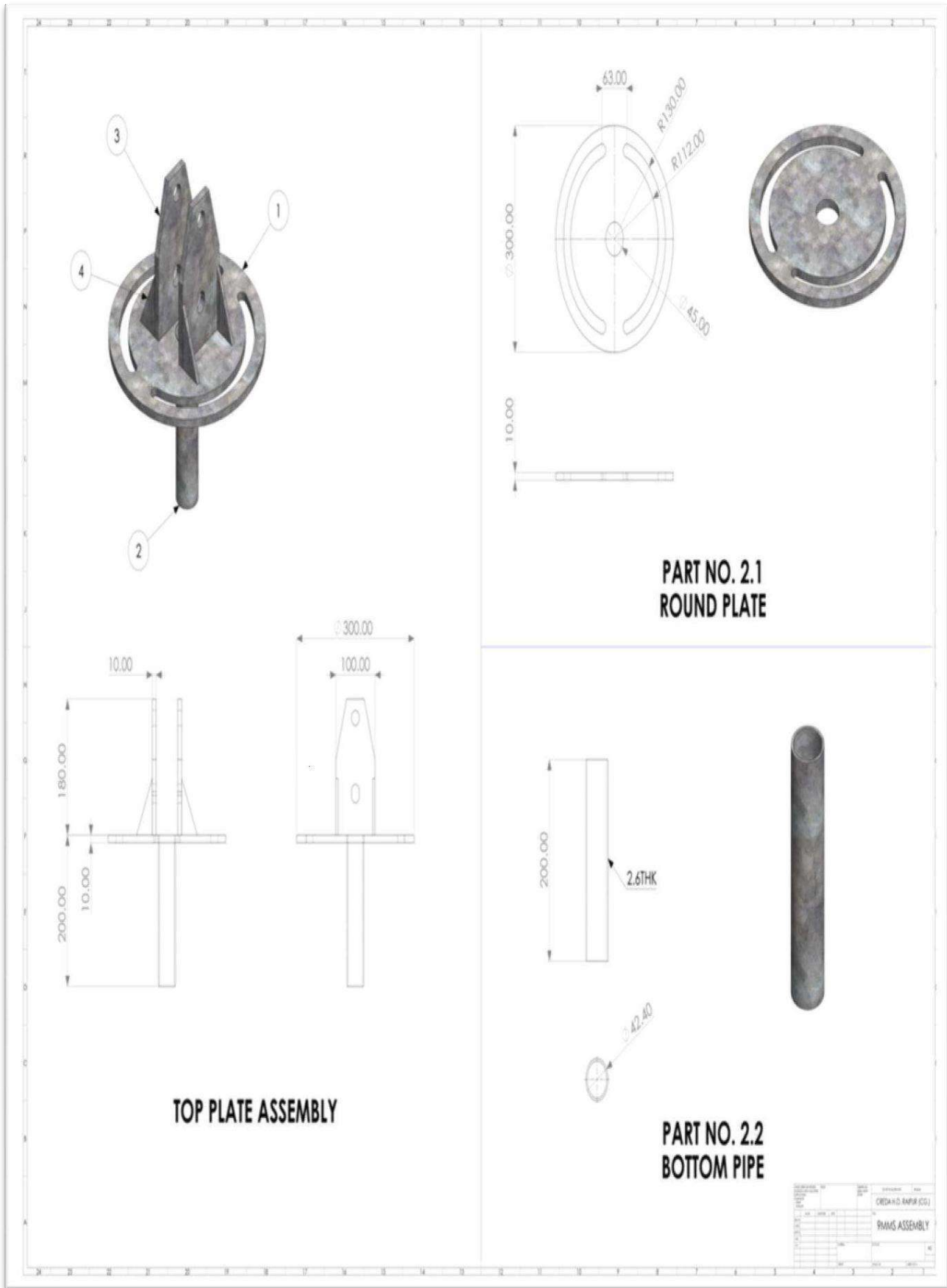
Drawings of 09 nos. MMS for 320 Wp & above

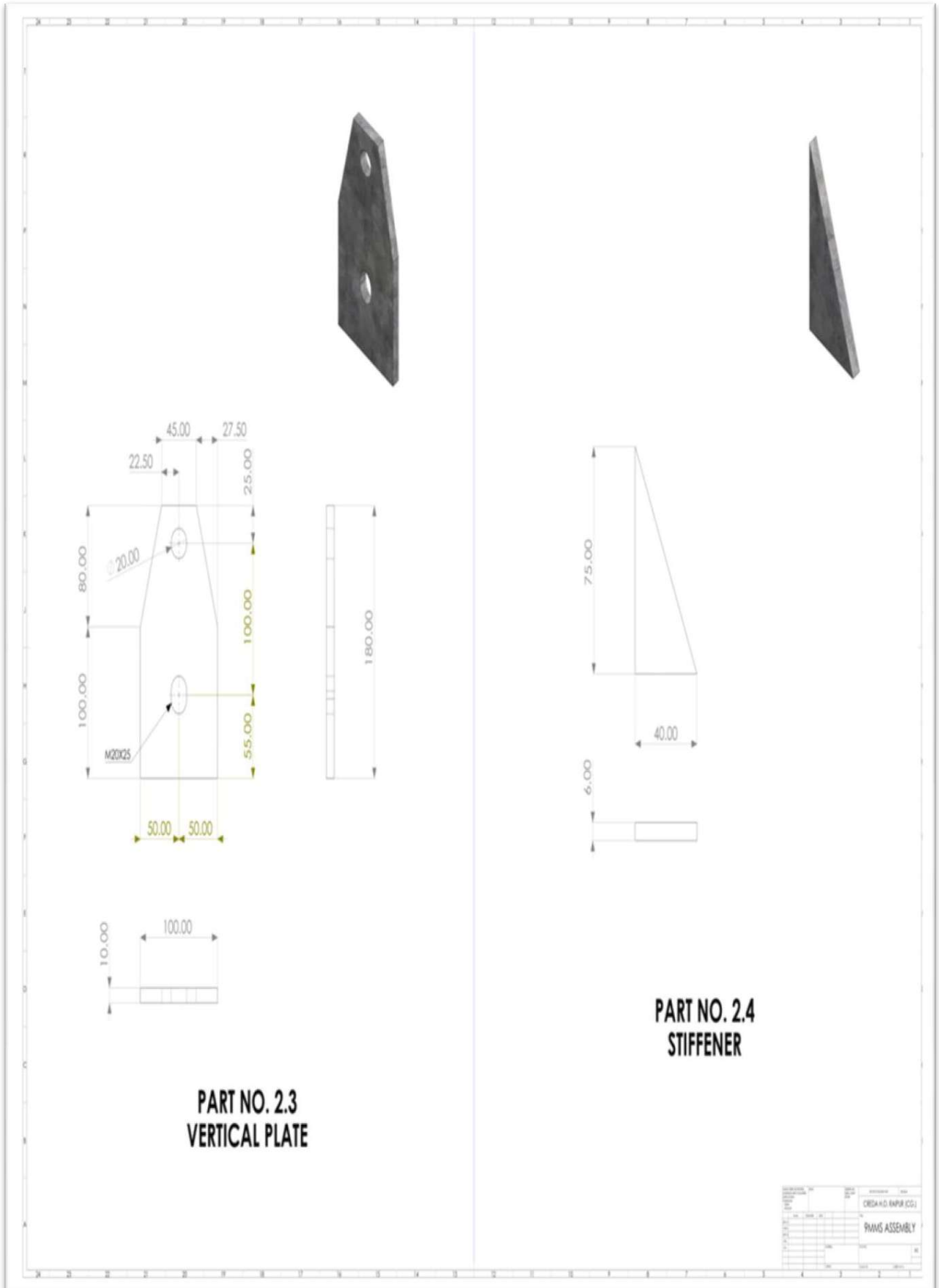








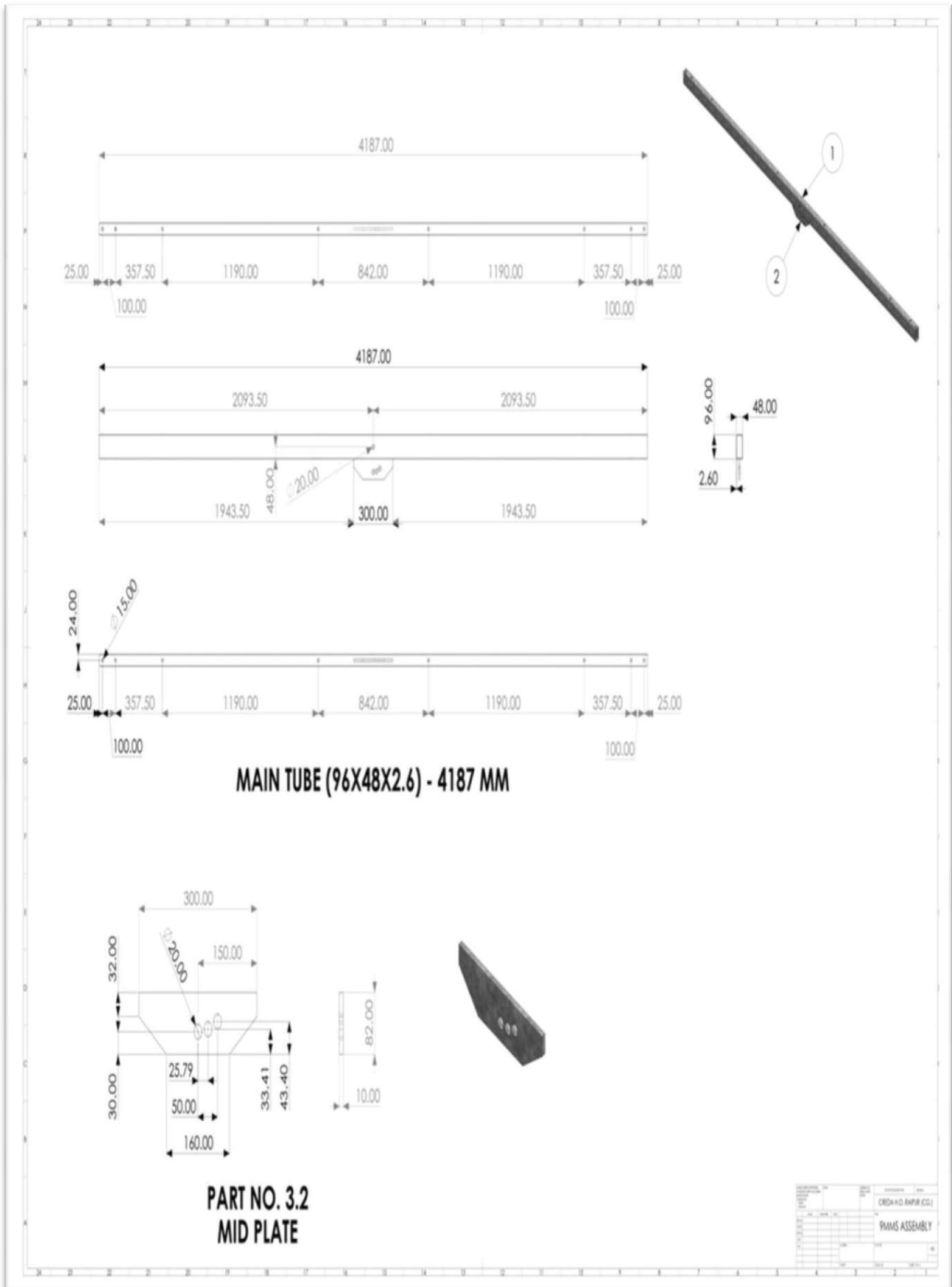


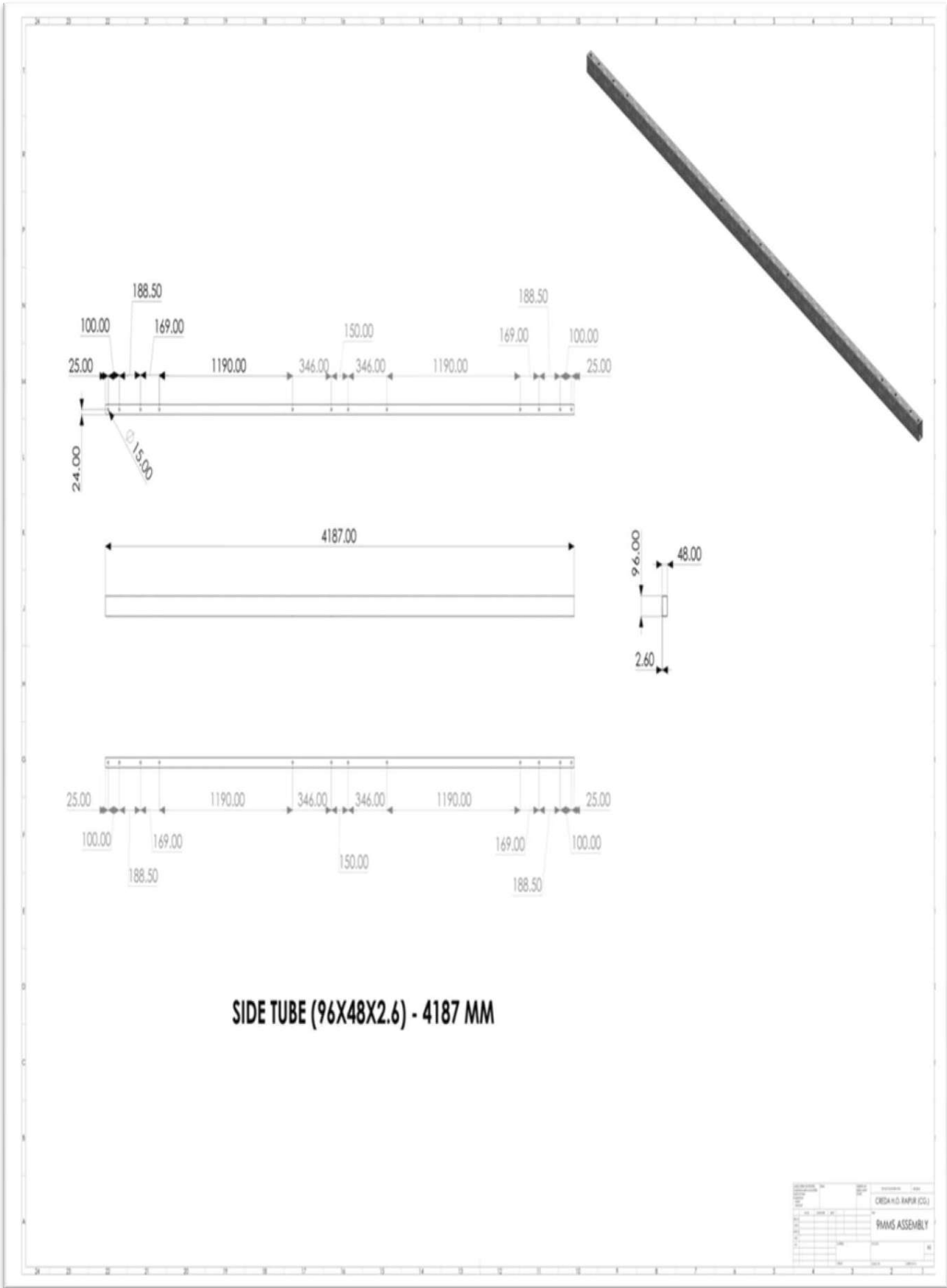


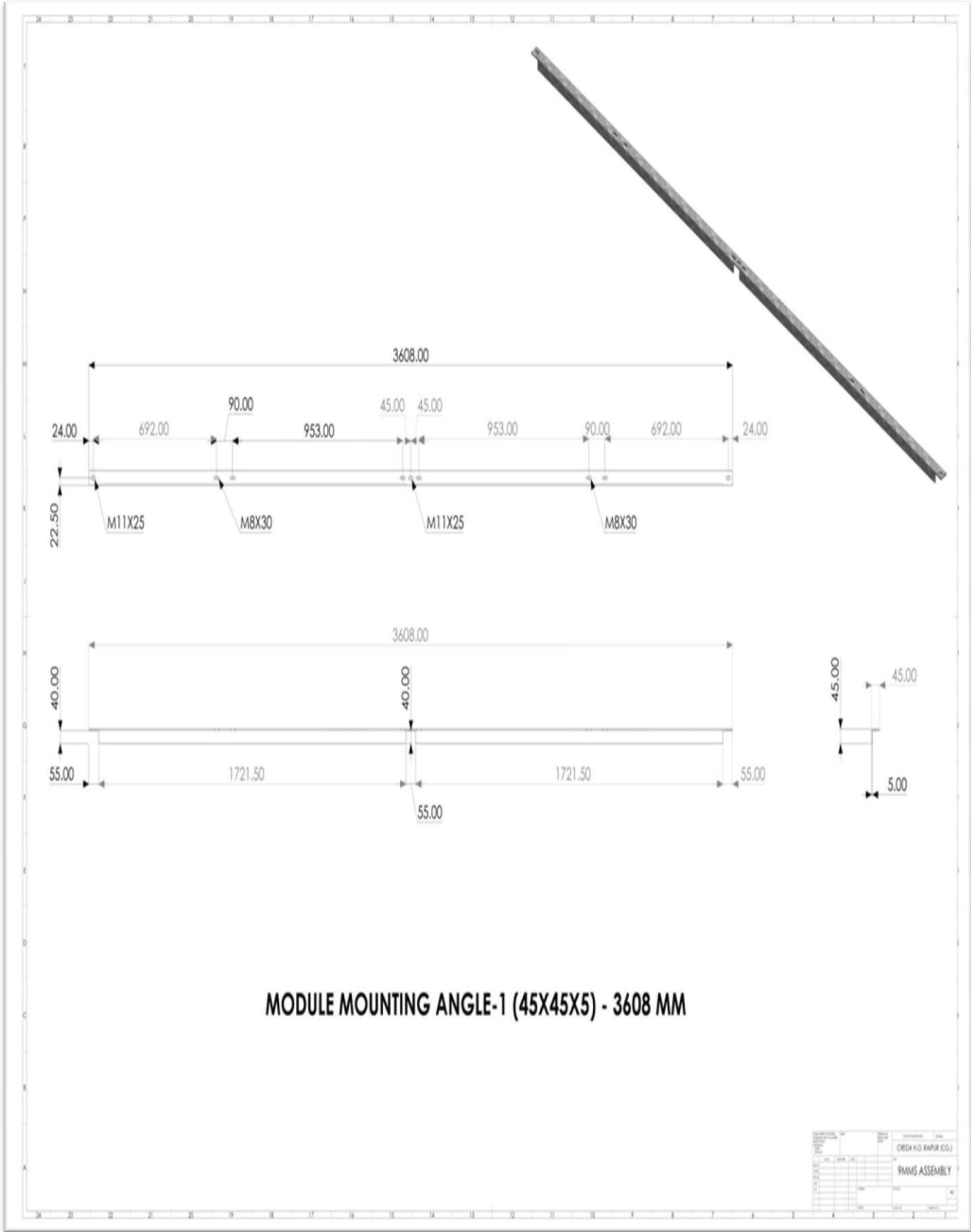
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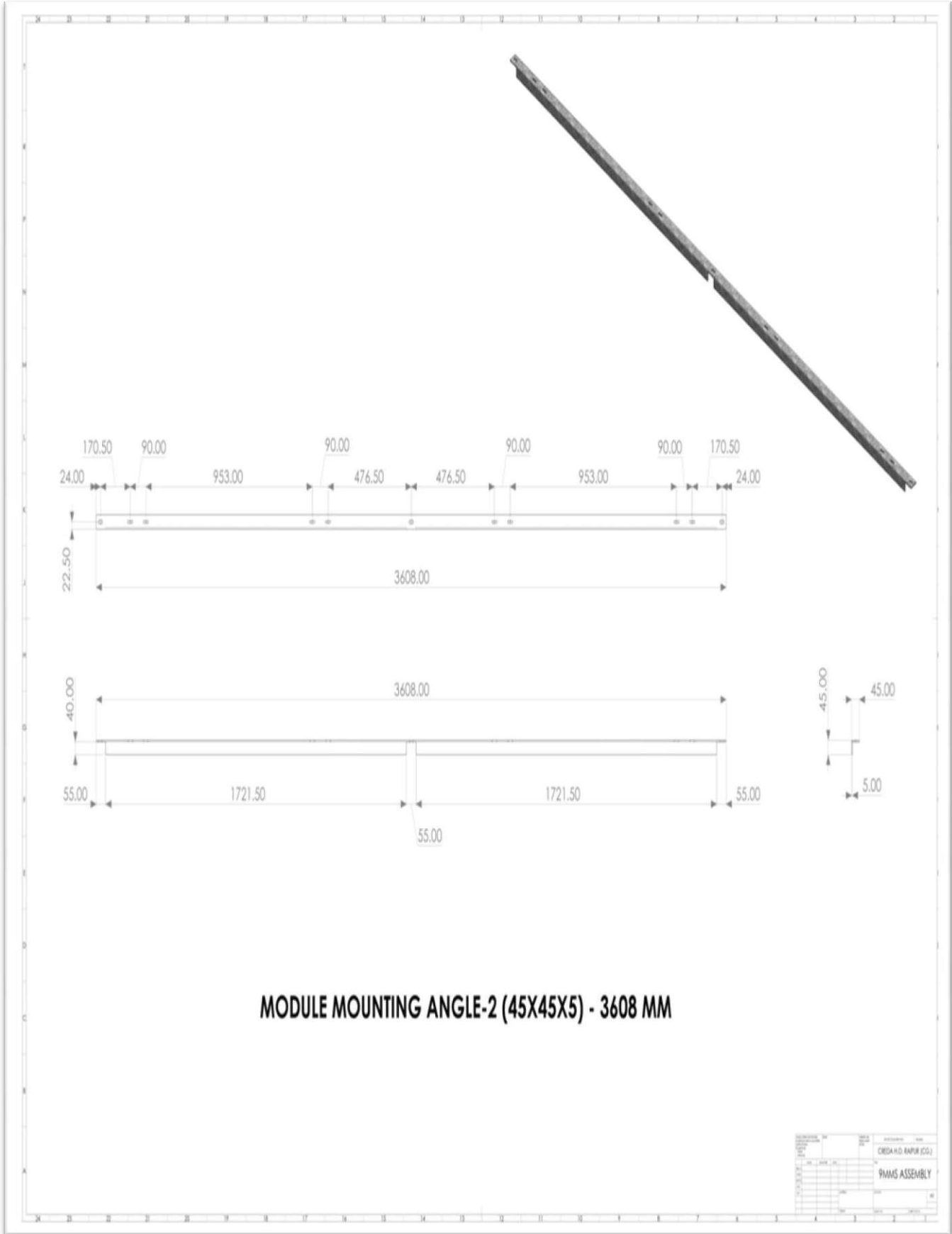
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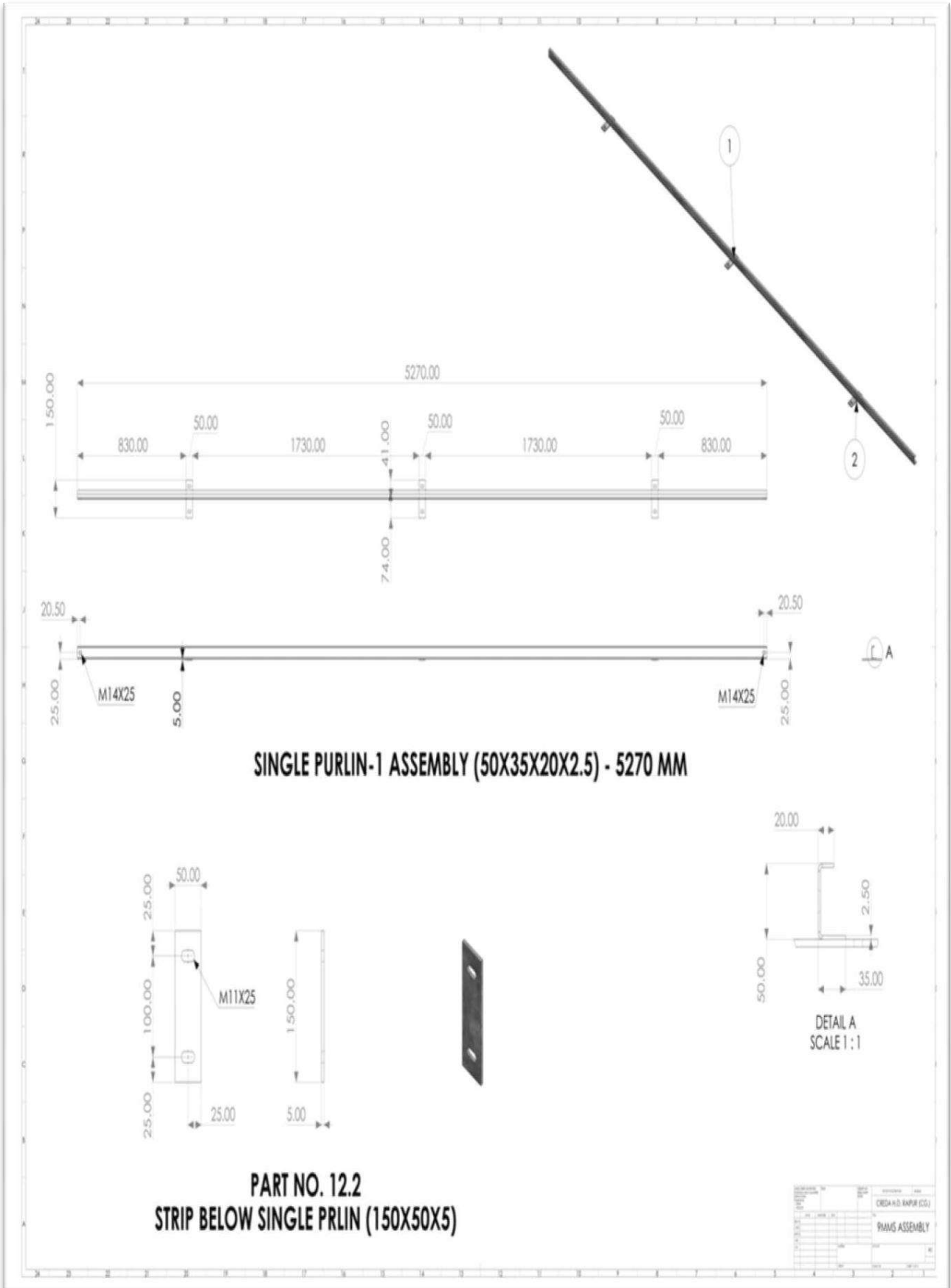
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CREDA (ENR) (G)		PWMS ASSEMBLY	

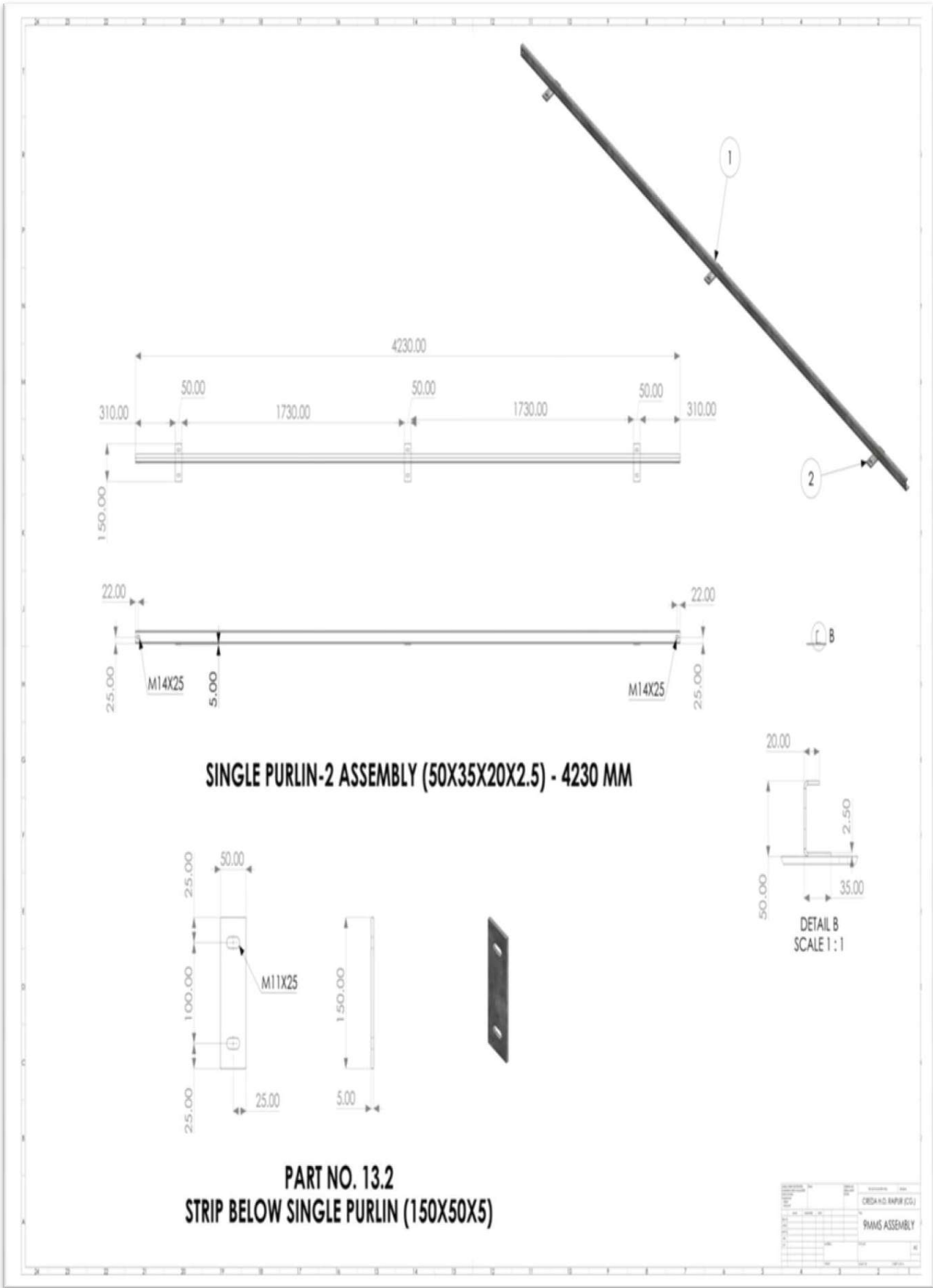


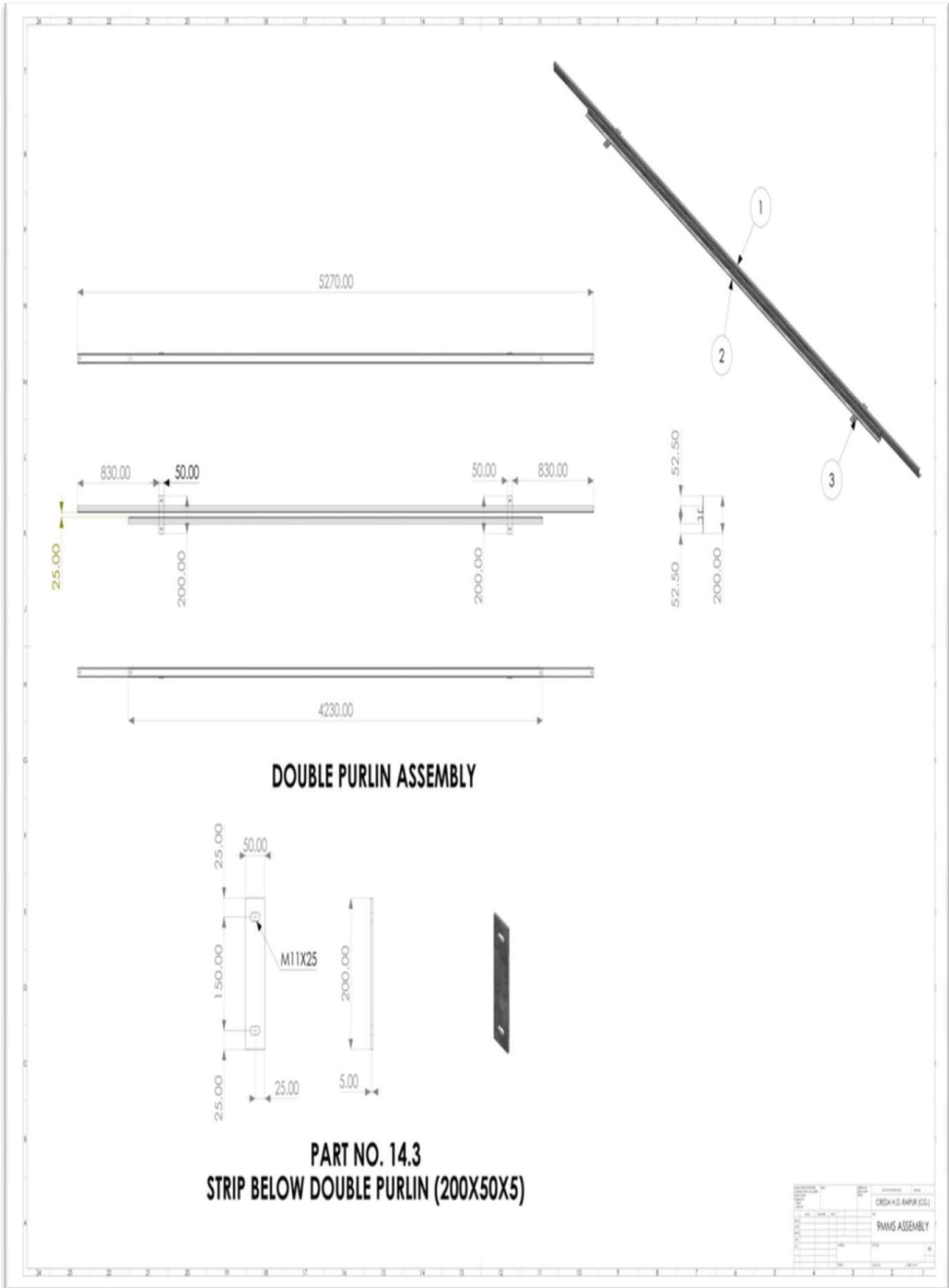


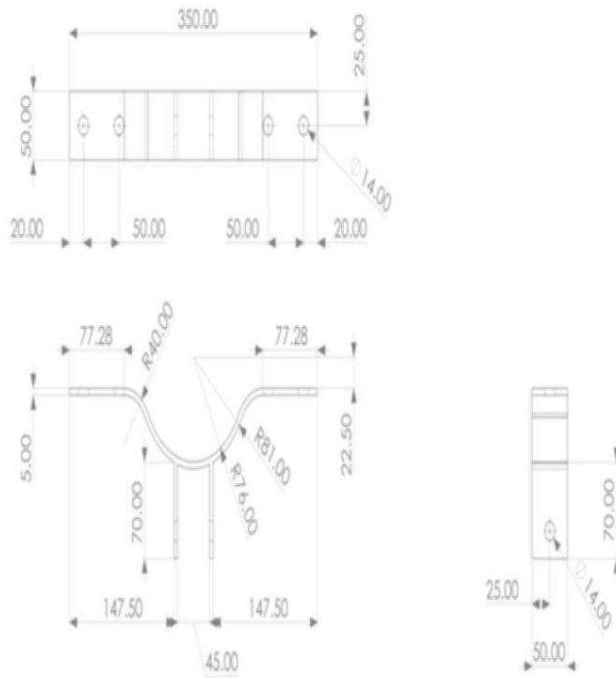




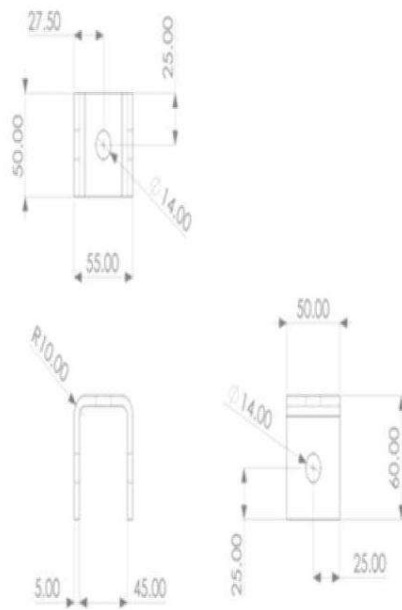






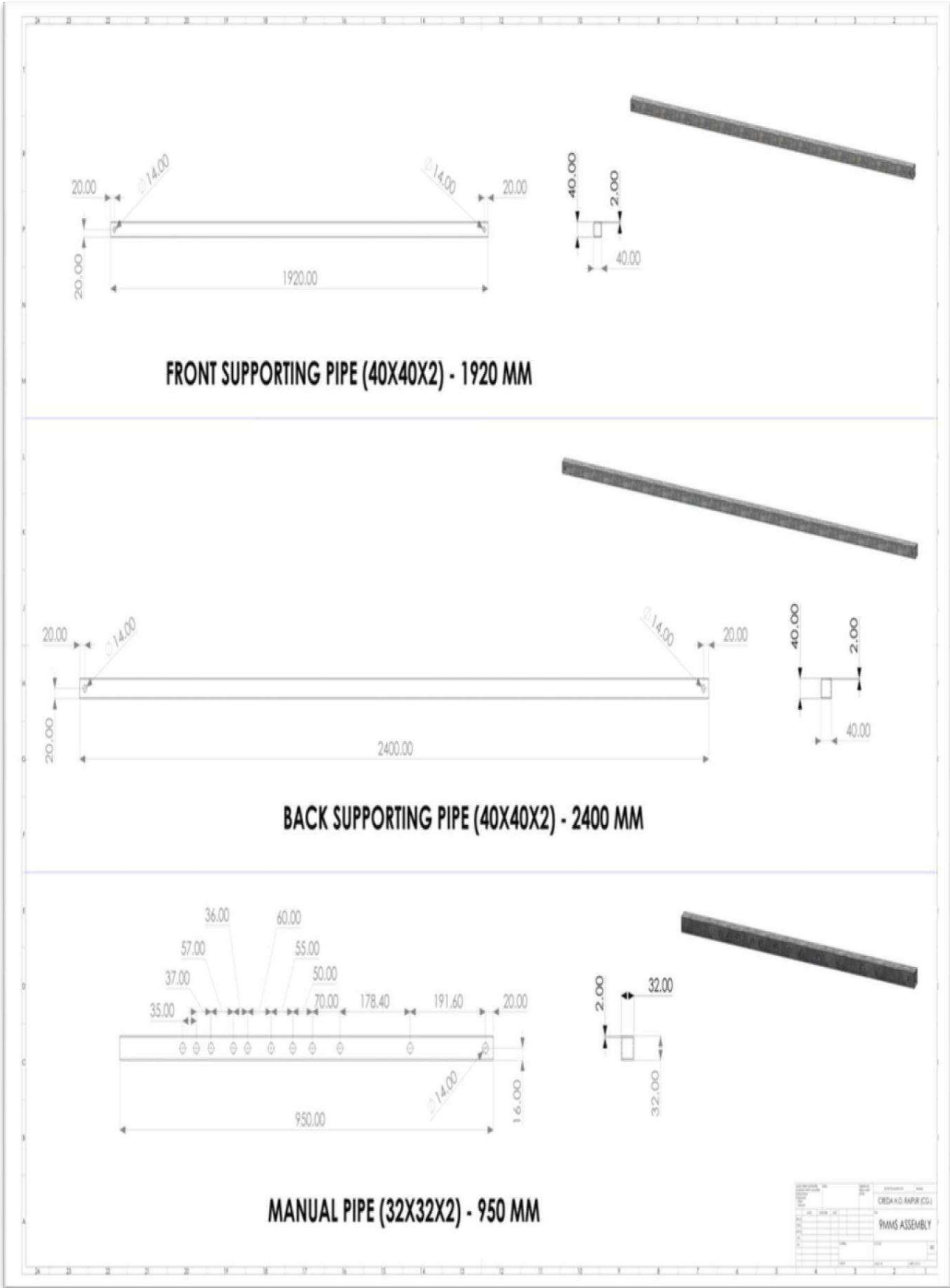


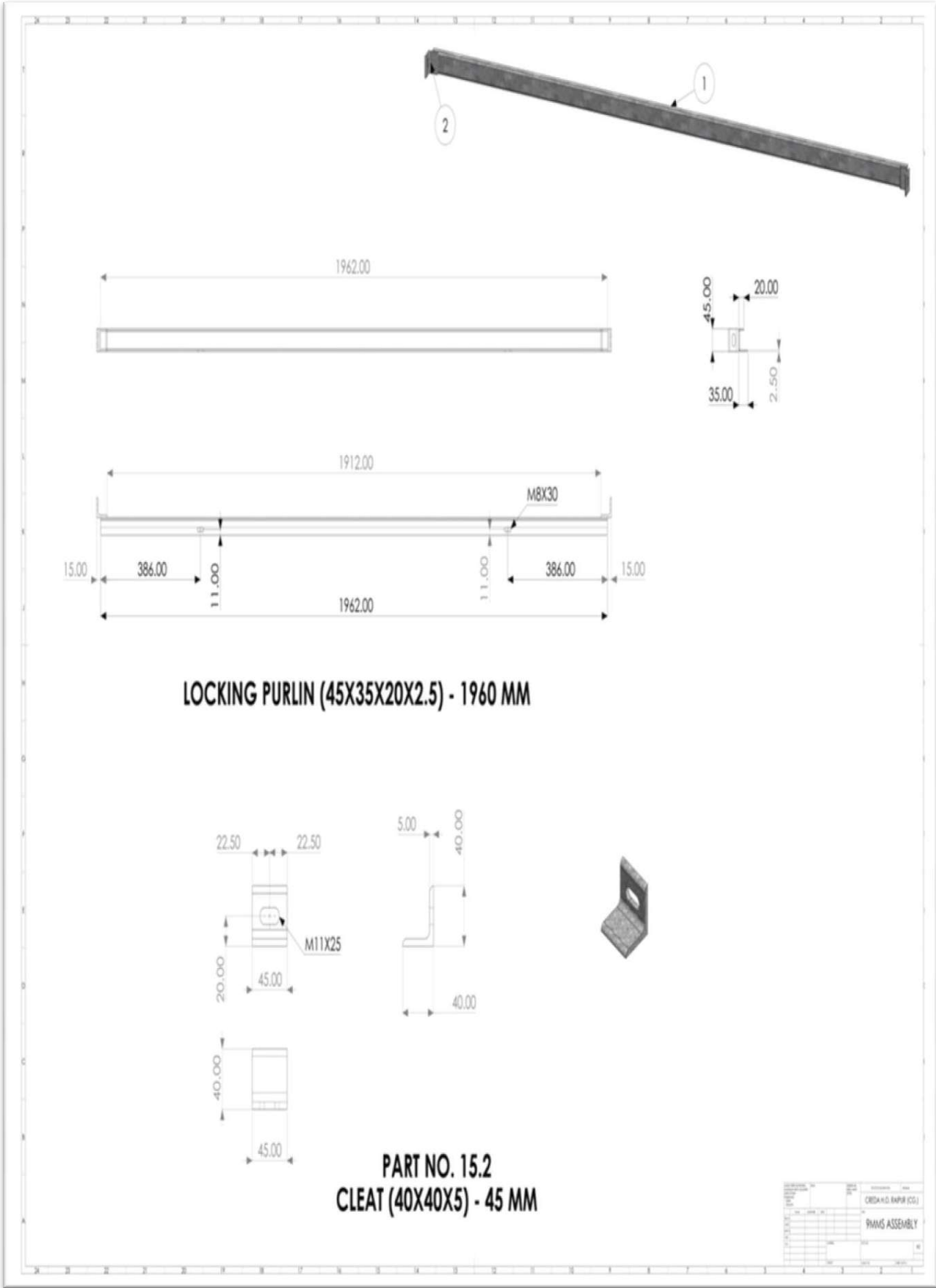
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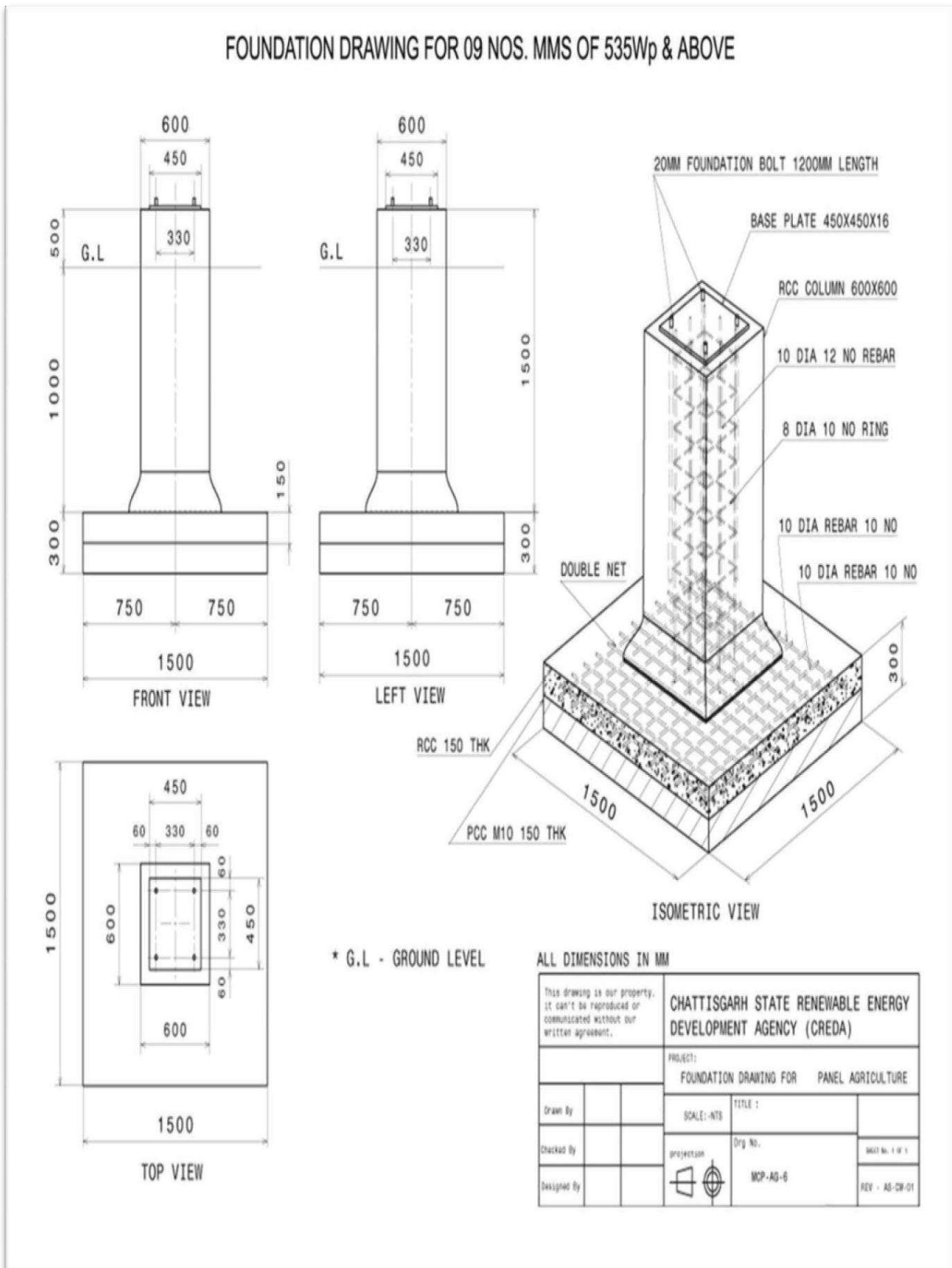
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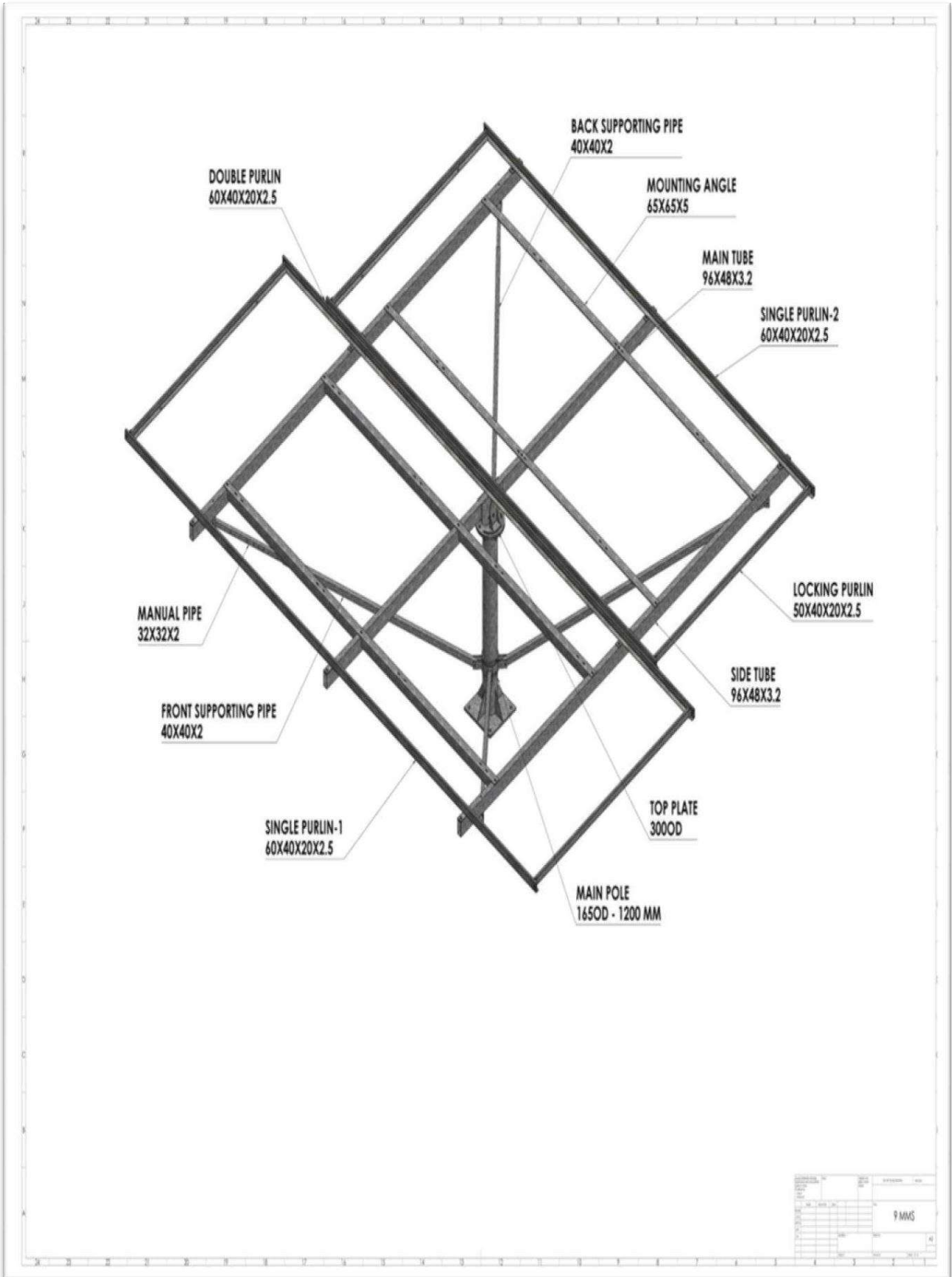
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Remarks	

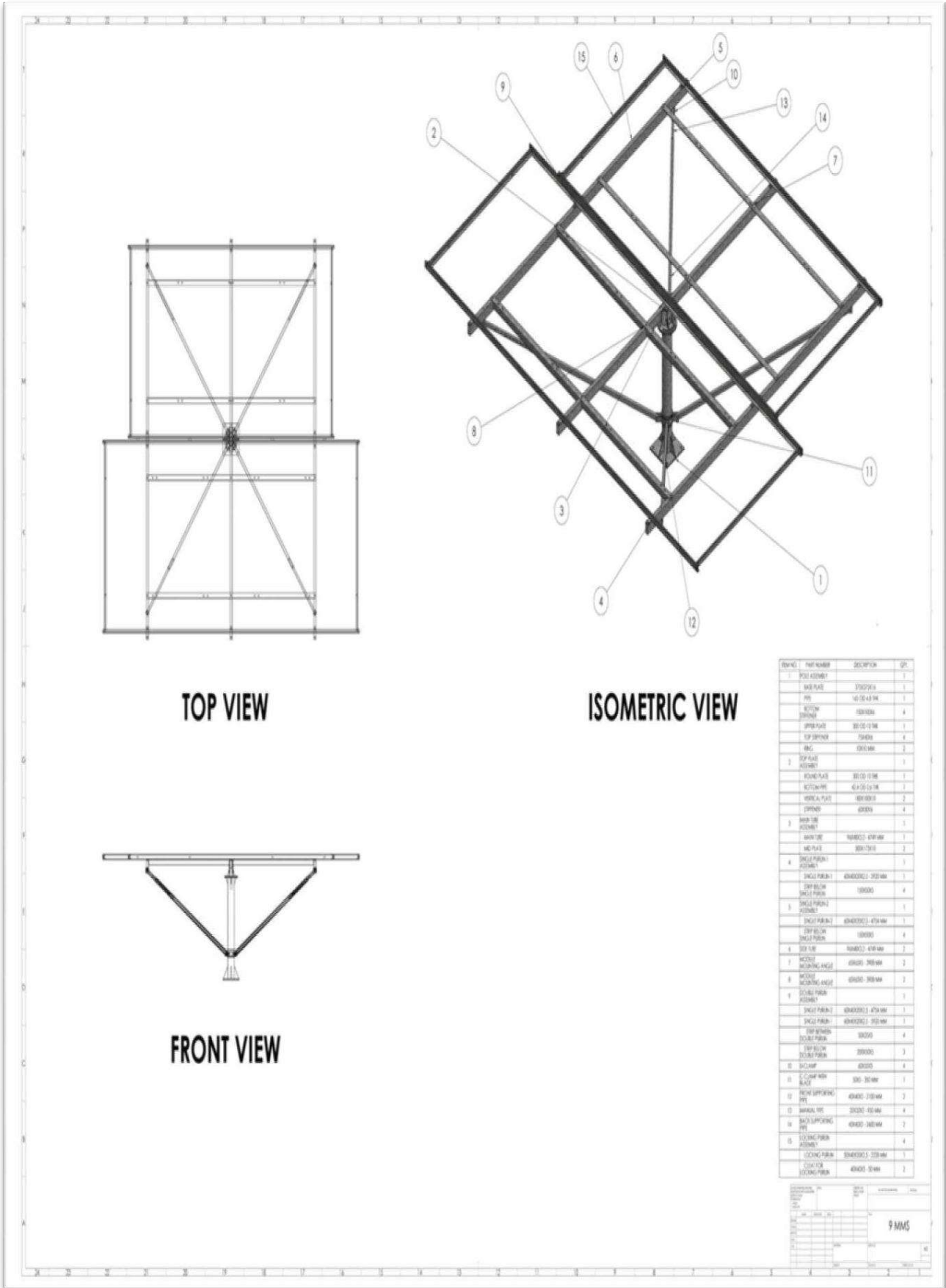


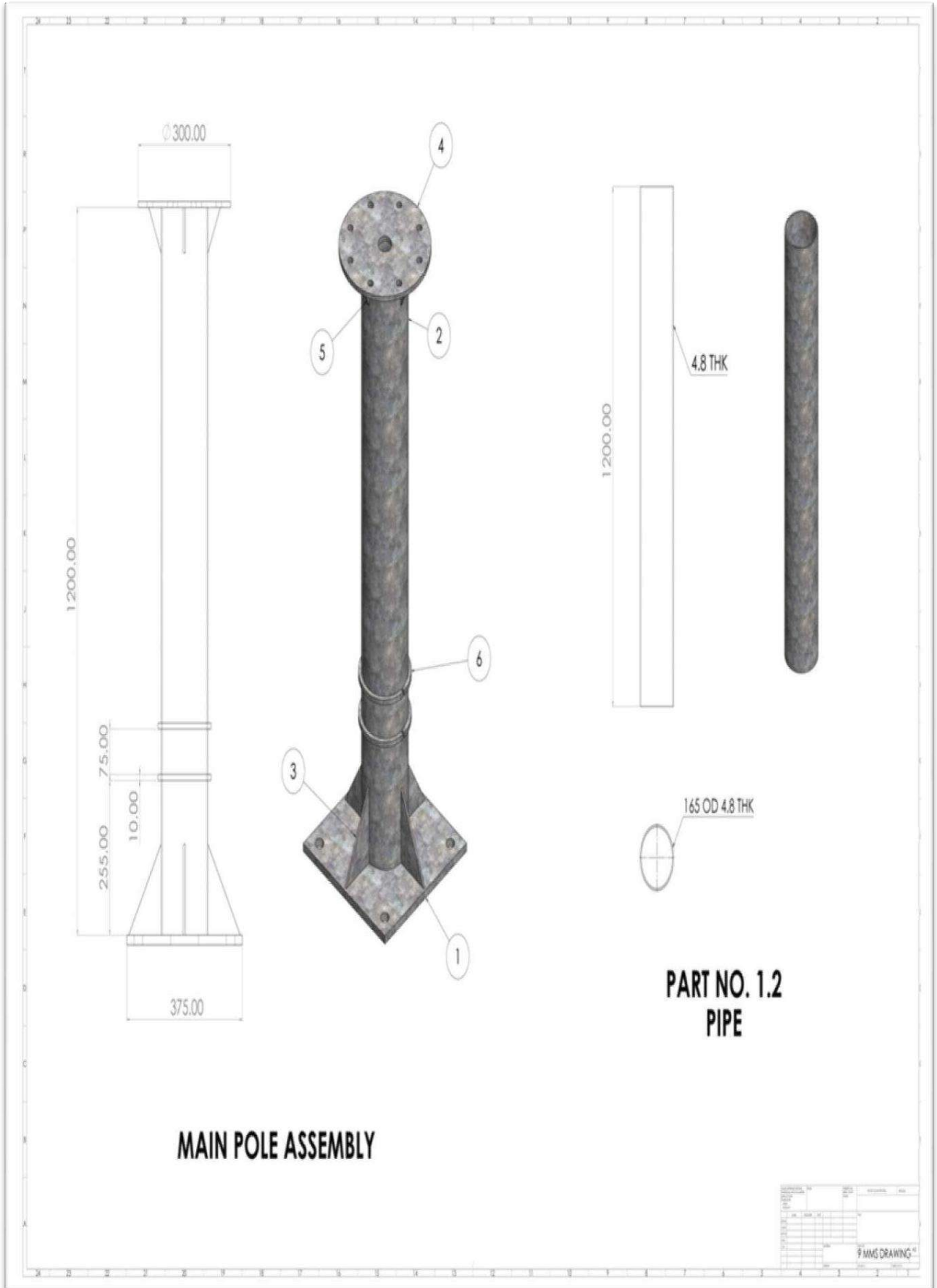


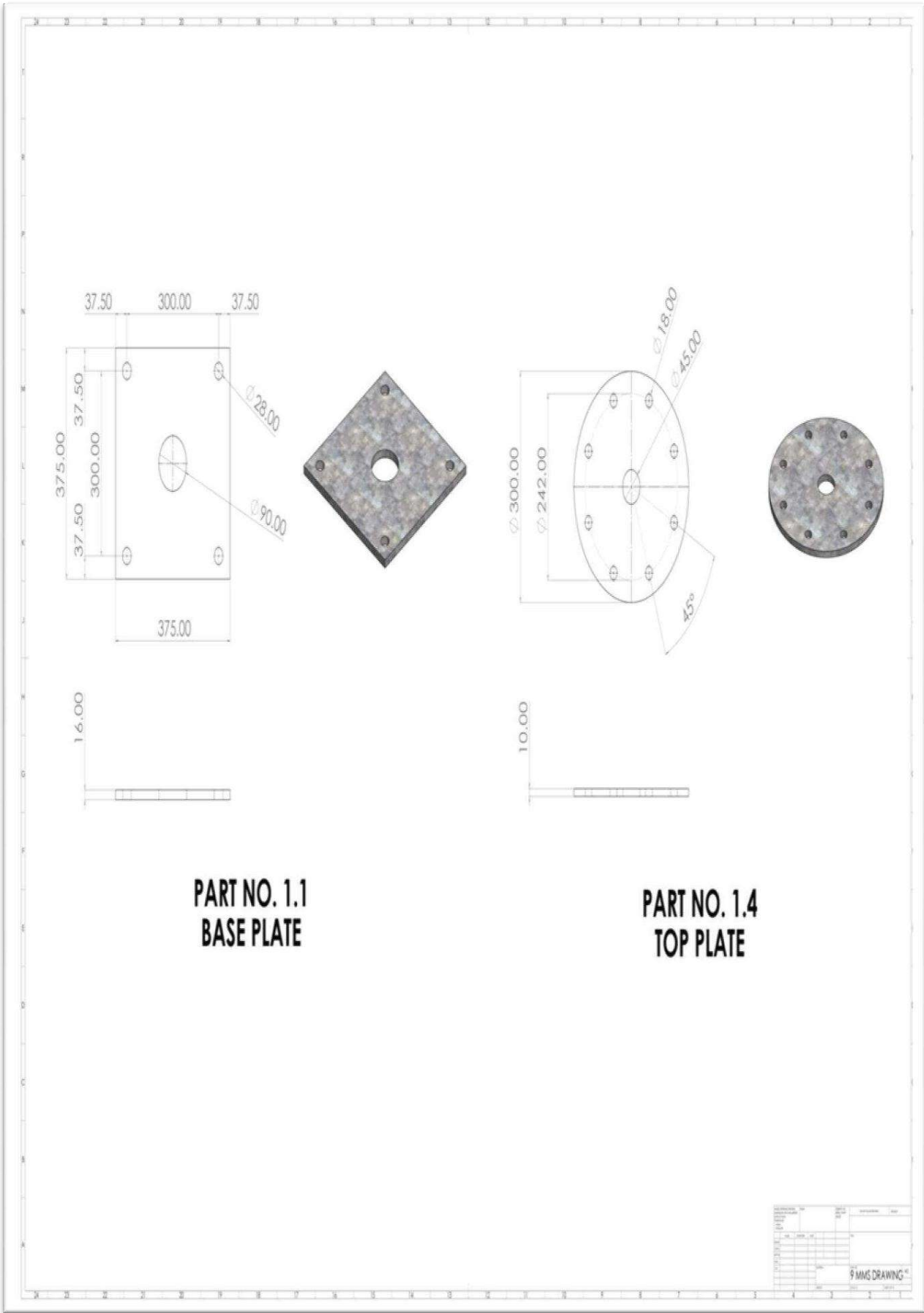
Drawings of 09 nos. MMS & Foundation for 535 Wp & above









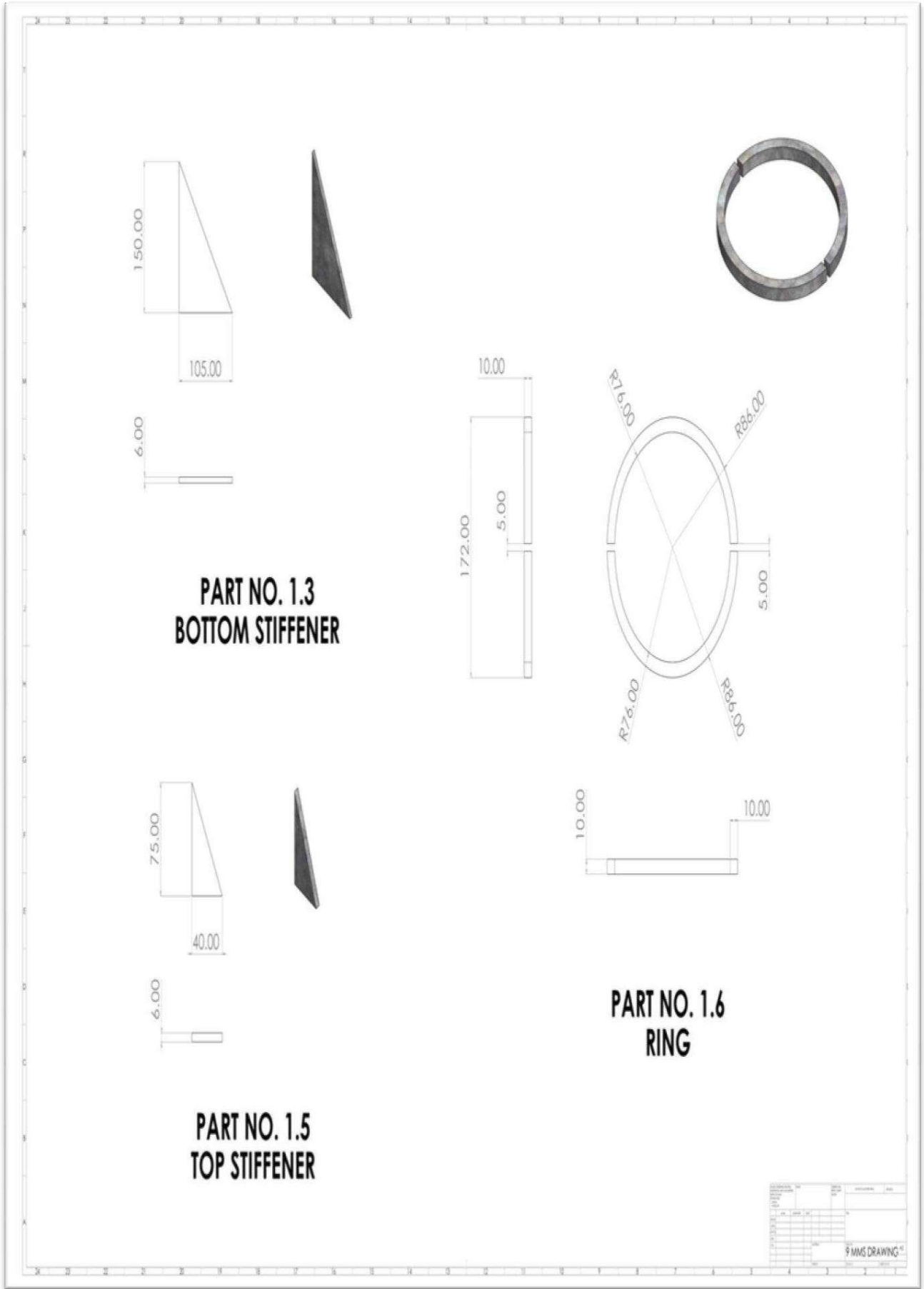


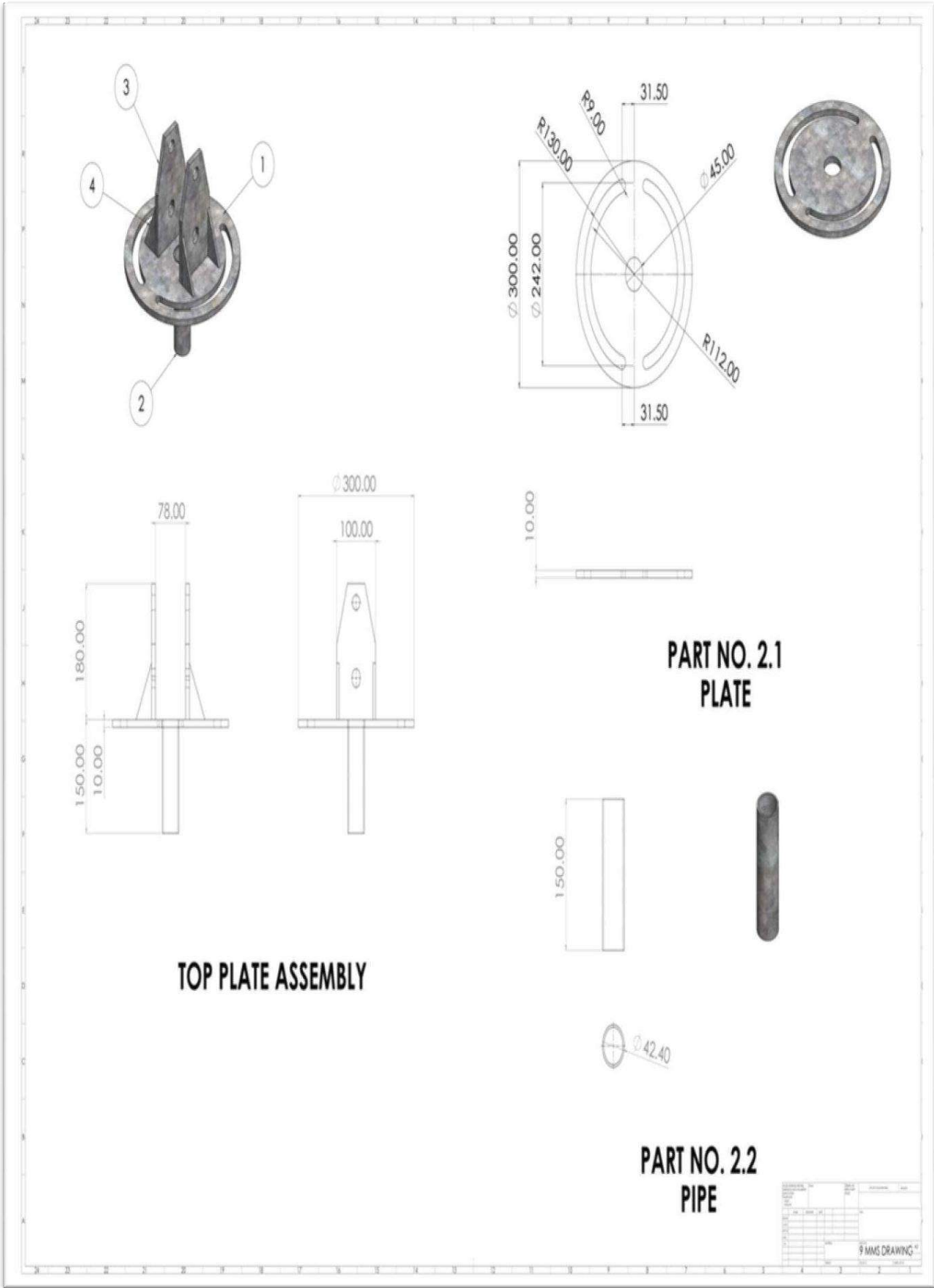
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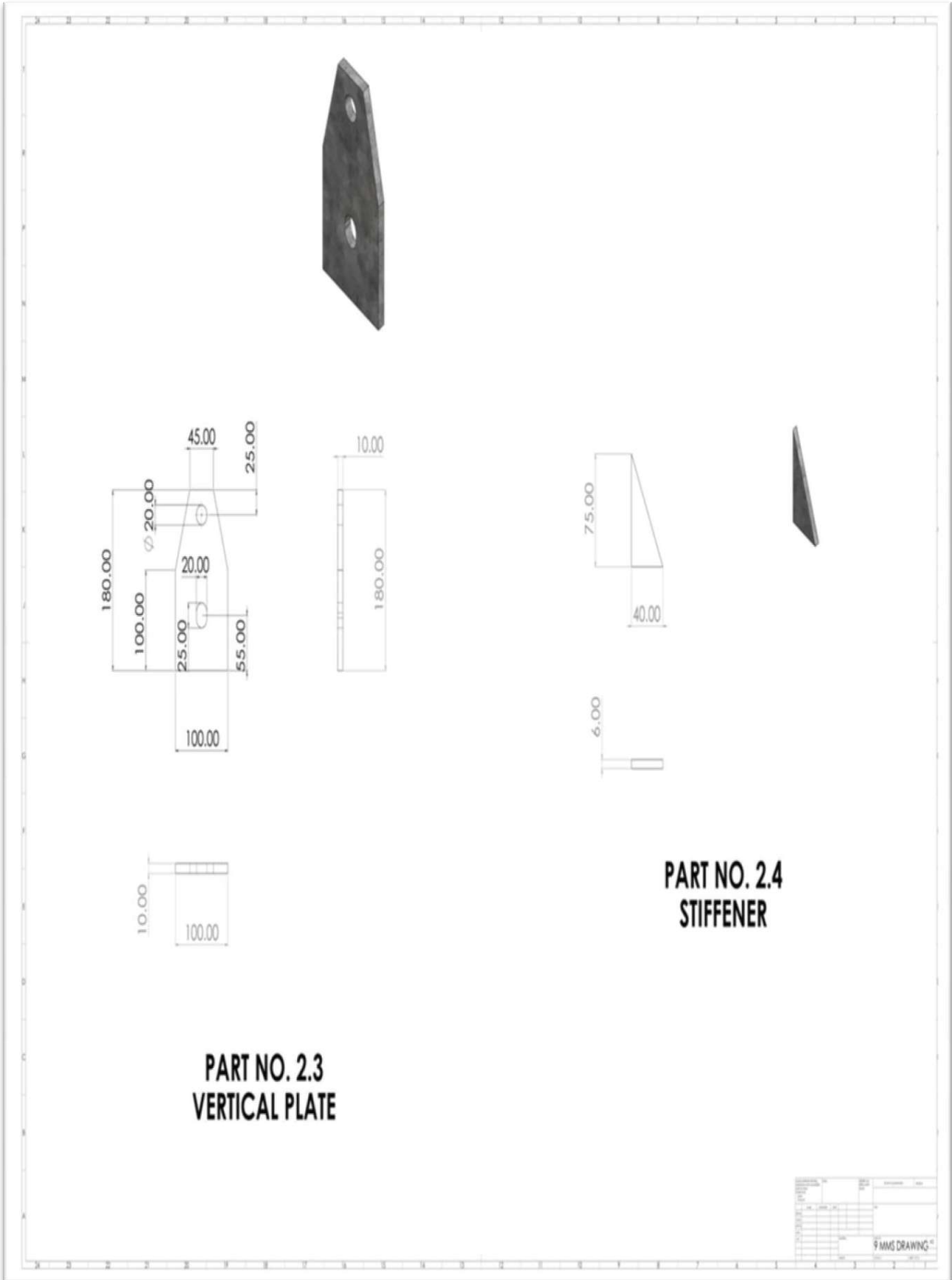
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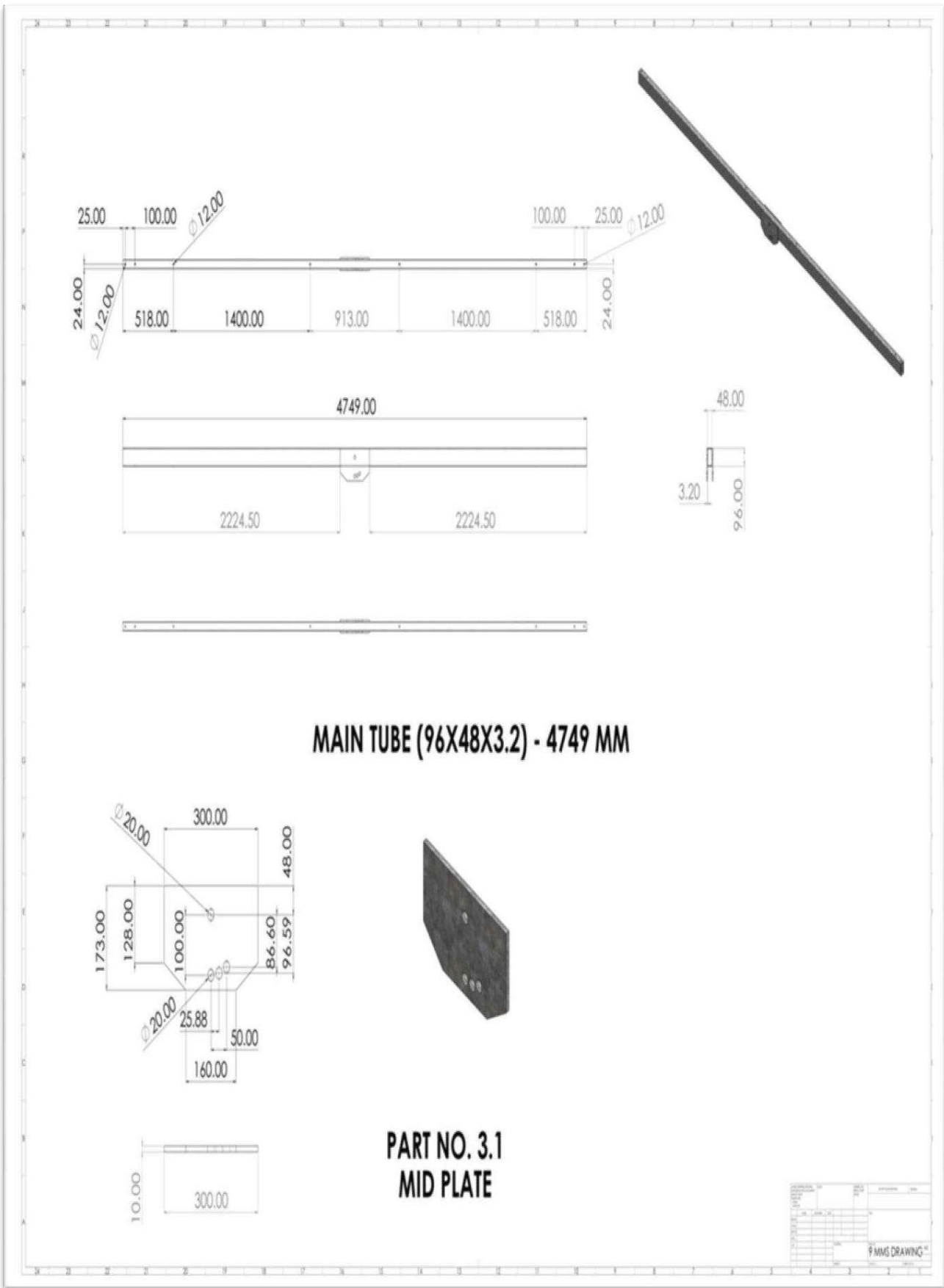
REVISIONS		DATE	BY	CHKD

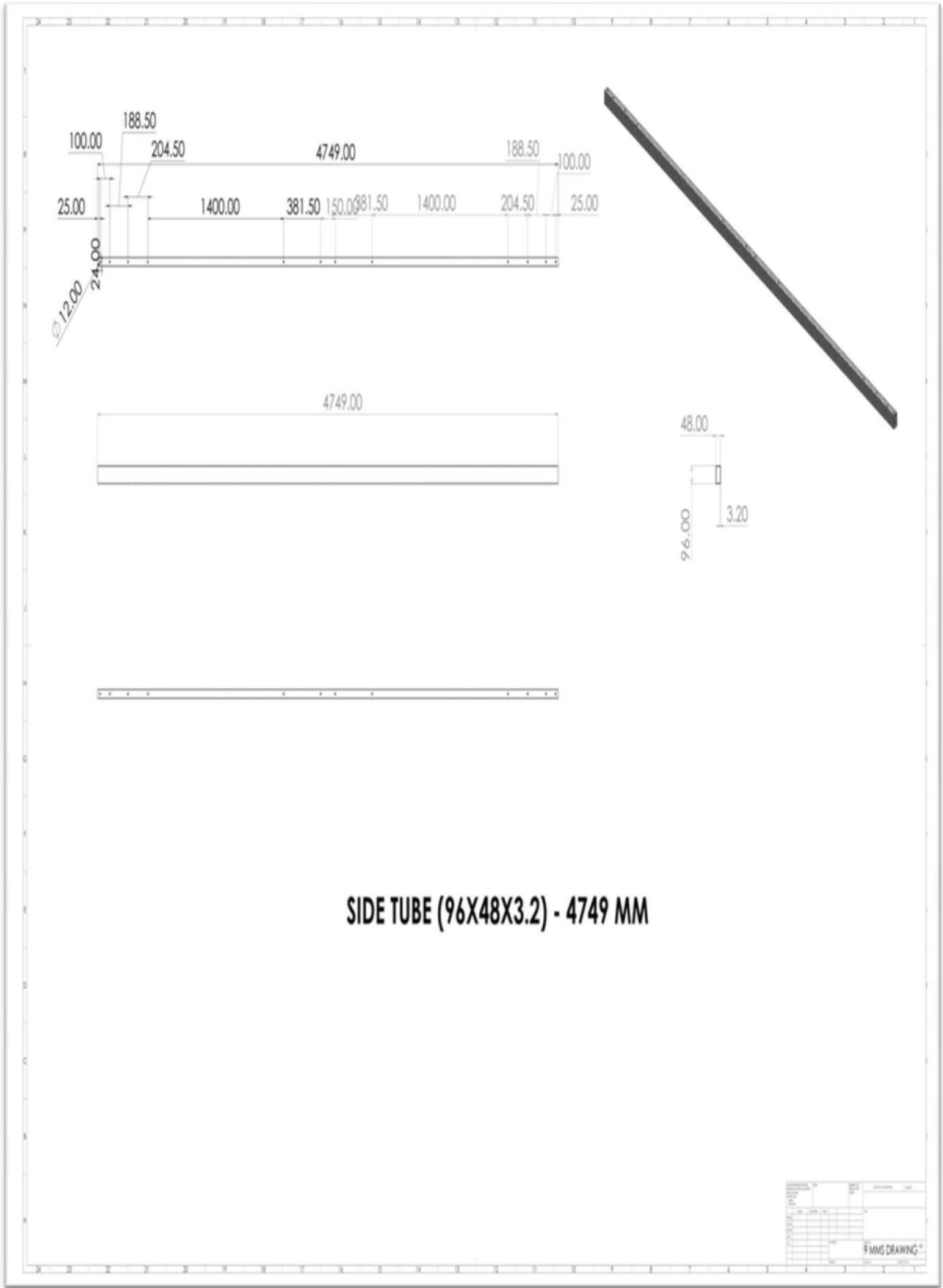
9 MMS DRAWING

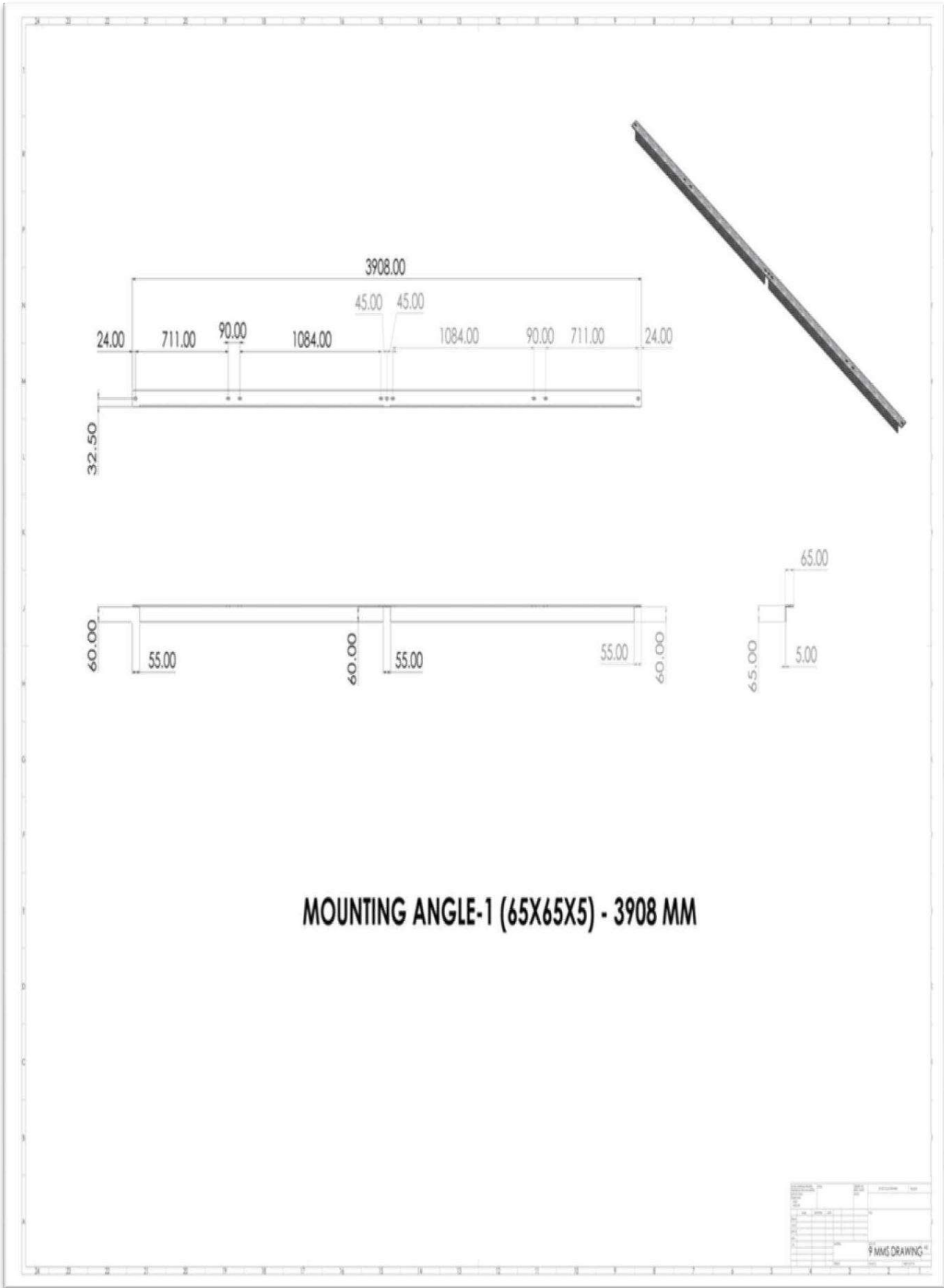












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