



NATIONAL SUPERCOMPUTING MISSION
INFRASTRUCTURE | APPLICATIONS | R&D | HRD

Centre for Development of Advanced Computing

A Scientific Society of Ministry of Electronics & Information Technology,
Government of India

Innovation Park, PANCHAVATI, Pashan Road, Pune - 411008

Tel: +91-20-25868086 / 020-25503673-75

www.cdac.in / mmg@cdac.in

Tender no: CDACP/NSM-RUDRA-BRICKS-1U-2U /20-21/323

C-DAC invites ON-LINE bids for Manufacture - Enclosure Chassis for 1U and 2U `Rudra Server' with cooling fans & connecting cables.

Prospective Bidders may download the Tender Document from www.cdac.in / <https://eprocure.gov.in/eprocure/app>. Bidders are advised to go through instructions provided at `Instructions for online Bid Submission' and submit duly filled bids online on the website <https://eprocure.gov.in/eprocure/app> as per the schedule given in the Tender Document.



Tender Schedule

Tender No: CDACP/NSM-RUDRA-BRICKS-1U-2U /20-21/323

Name of the Institute	Centre for Development of Advanced Computing, Pune 411008.
Place of Supply, Installation & Commissioning, Support etc.	Centre for Development of Advanced Computing, Innovation Park, PANCHAVATI, Pashan Road, Pune 411008.
Date of Release of Tender	January 19, 2021
Last date of submission of bids	February 05, 2021 - 1500 Hrs
Date of opening of Technical bids	February 05, 2021 - 1530 Hrs
Place of opening of technical bids	C-DAC, Pune 411008.

1. Instructions for On-line Bid Submission

The bidders are required to submit soft copies of their bids electronically through the portal (www.eprocure.gov.in) using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

2. Assistance to Bidders:

Any query relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24*7 CPP Portal Helpdesk on :- 0120-4200 462, 0120-4001 002, 0120-4001 005, 0120-6277 787, e-mail for Technical - support-eproc@nic.in.

3. *In case of any doubts and/ or queries pertaining to technical solution, specifications terms and conditions of the tender, prospective bidder may send their queries in writing through e-mail (mmg@cdac.in). The queries, requests for clarifications etc. must be sent within 8 days from the date of publication of the Tender. The bidders are requested to go through the entire tender document thoroughly, before raising any query. C-DAC, Pune shall address the queries raised by the bidders. The replies to queries would be made available on C-DAC's web site in due course of time. All the queries, doubts, clarifications etc. must be submitted in xls format only as below.*

Name of the bidder:				
Sl.No.	Section / Page No	Clause Reference	Query from bidder	C-DAC Response



SECTION I: INSTRUCTIONS TO BIDDERS (ITB)

1. Introduction:

Centre for Development of Advanced Computing (C-DAC) - is a scientific society under the administrative control of Ministry of Electronics & Information Technology, Government of India. The National Supercomputing Mission (NSM) initiated by Government of India aims towards achieving the goals of attaining self-reliance in supercomputing and problem solving in various domains of scientific and technological endeavours. Under this mission, it is proposed to create an infrastructure of family of supercomputers of varying capacities spanning a wide range. One of the goals of the mission is to build supercomputer using indigenously designed and manufactured sub-systems, and to create the ecosystem for indigenous supercomputing. In line with this requirement, C-DAC is currently in the process of designing and building state-of-the-art Compute Server based on industry standard and latest technologies.

C-DAC plans to build a pilot supercomputer system of more than 100 compute nodes, using inhouse designed Rudra server compute.

Accordingly, C-DAC invites bids from eligible entities for integrated work plan comprising **1U and 2U Mechanical chassis manufacturing, Heat Sink manufacturing, Fan, cable Assembly and supply of Rudra Enclosure assembly for initial pilot** as per Schedule of Requirements (Section- IV) and other terms and conditions stipulated in this document.

2. Contact information:

Material Management Group
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune 411008, Maharashtra, INDIA
Tel No.: +91-20-25503673-75/ 2586 8086, E-mail: mmg@cdac.in

3. Two bid System:

The Two e-bid systems will be followed for this tender.

I: e-Packet No. 1: "Technical e-Bid"

II: e-Packet No. 2: "Commercial e-Bid"

The documents pertaining to Technical Bid and Commercial Bid must be uploaded electronically through <https://www.eprocure.gov.in/eprocure/app>.

3.1 e-Packet No. 1: "Technical e-Bid":

The bidder must upload the copies of pdf documents through e-Packet – 1, as listed below:



- a. Covering letter, as per **Annexure – A**.
- b. Authority letter, as per **Annexure – B**.
- c. Scanned copy of Demand Draft towards tender fee of Rs. 1000/- (Rupees One Thousand Only) (Non-refundable/Non-Exempted) drawn in favour of C-DAC payable at Pune. However, the original of Demand Draft must be submitted to C-DAC at address given at para 2 above, on or before the Due Date & Time of the Tender Submission.
- d. The bidder must submit an undertaking pertaining to Earnest Money Deposit (EMD), as per the format given in **Annexure – C**.
- e. A copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable, in support of eligibility criteria at para 4.3, Section – II of this document.
- f. Copies of PAN and GST registration certificates, as applicable.
- g. Copies of documents in support of eligibility requirements stipulated at para 4.3, Section – II of this document.
- h. Compliance statement indicating the compliance of the scope of work, etc. as per the tender specifications.
- i. The copies of audited Profit and Loss Accounts **OR** the certificate from a Chartered Accountant certifying the annual sales turnover of the bidder for the last 3 financial years.
- j. A photo copy of un-priced commercial bid (Prices Blocked) as per format given in Section – V of this document. C-DAC reserves the right to reject the bid in case of discrepancy is observed in the un-priced commercial bid and the actual commercial bid.
- k. Any Other documents necessary in support of eligibility criteria, experience etc.

Note: C-DAC reserves the right to reject the bid if any of the above listed document/s is not submitted.

3.2 Online – e-Packet No. 2: “Commercial e-Bid “shall contain: (BOQ.xls file only)

Duly filled Commercial Bids as per format given in **Section – VI**, complete in all respects with name, designation, email id and contact no.

4. Both the technical bid and commercial bid should be addressed to:

Materials Management Group (MMG)
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, PANCHAVATI, Pashan Road,
Pune 411008, INDIA Phone: 020-25868086 / 020-2550 3673-75.

5. Last Date of submission/ uploading:



The on-line bids, complete in all respect should be uploaded through www.eprocure.gov.in/eprocure/app on or before the date given in tender schedule. The bidders are advised to upload the documents at least one day before the last date for uploading of documents, in order to avoid the possibilities of any last-minute surprises. C-DAC does not take any responsibility towards technical snags pertaining to CPP Portal and/or connectivity issues.

It may please be noted that the originals of Demand Drafts, Bank Guarantees etc must be submitted on or before last date of submission of bids. (Refer para 3.1, Section – I). C-DAC shall not be responsible for any postal delays or any other reason, for on-receipt of the tender fees/ EMD etc. in the specified time and resulting in disqualification / rejection of the bid.

6. Opening of Technical e-bids:

The Technical e-bids will be opened - online on the date given in tender schedule, through www.eprocure.gov.in/eprocure/app portal at:

Centre for Development of Advanced Computing (C-DAC)

Innovation Park, Panchavati, Pashan Road, Pune 411008,
Maharashtra, INDIA.

Tel No.: +91-20-25868086 / 020-2550 3673-75.

E-mail: mmg@cdac.in

Note: Please do not put "Commercial Bid" (prices quoted) in the technical bid e-packet. If the price quoted is submitted / leaked with technical bid, the tender will be rejected at the sole discretion of C-DAC.

7. Opening of commercial e-bids:

Commercial e-bids of the qualified bidders only will be opened. The decision of C-DAC's bid evaluation committee in this regard will be final and binding on bidders. C-DAC's bid evaluation committee will be authorised to take appropriate decision on minor deviations, if any.

The date, time and venue of opening of commercial bids will be informed later to the qualified bidder.

The bidder's name, bid prices and other appropriate details will be displayed at the time of the opening of the commercial bids.

(END OF SECTION I)



SECTION II: GENERAL CONDITIONS OF CONTRACT (GCC)

1. Location for the Supply, Installation & Warranty Services:

The prototypes as described in Schedule of Requirements must be supplied at
**Centre for Development of Advanced Computing, Innovation Park,
PANCHAVATI, Pashan Road, Pune 411008.**

2. Delivery Period:

- 2.1. The manufactured, assembled first 10 chassis of each 1U and 2U must be delivered to C-DAC within a period of 6 weeks from the date of release of mechanical manufacturing data. The rest of the chassis must be delivered to C-DAC within 2 weeks after C-DAC gives go ahead for manufacturing of the same with minor changes, if any. If major changes by C-DAC, the delivery will be mutually decided based on the type of change, but not later than 8 weeks from go ahead by C-DAC.
- 2.2. The successful bidder shall report the progress of work to C-DAC periodically at an interval mutually agreed upon.

3. Order Placements & Payment Released by:

The Supply Order shall be released by:
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA

4. Eligibility Criteria:

The bidder must comply with the minimum eligibility criteria stipulated below.

- 4.1. The bidder must submit the documents as listed at para 3.1 and 3.2, Section – I of this document.
- 4.2. The bidder cannot submit more than one bid against this Tender.
- 4.3. The bidder must be a legal Indian entity registered under appropriate Law/ Act.
- 4.4. The Bidder shall not be blacklisted by any State or Central Government Department. Certificate in support of these criteria shall be submitted on company letter-head.
- 4.5. The Bidder shall execute the entire scope of work in India.
- 4.6. The bidder must have reported an annual sales turnover of INR 1.50 Crores in the last three financial years. A copy of P & L account or a Certificate from a Chartered Accountant to this effect must be submitted with technical bid.
- 4.7. The bidder or bidder's affiliated company must have Mechanical designers on their roll. Details of personnel deployed, their experience and skill sets, must be submitted along with the technical bid, as supporting documents.



- 4.8. The bidder must have successfully completed at least five orders/ contracts pertaining manufacture of mechanical enclosure for electronics equipments and manufacture of cable assemblies during last three years. The copies of said orders/ contracts and completion certificates in the name of bidder, issued by clients must be submitted along with the technical bid.
- 4.9. The bidder or bidder's affiliated company must have in-house Mechanical manufacturing facility and must be compliant as per **Annexure F**. Details of compliance must be submitted along with the bid.
- 4.10. The bidder or bidder's affiliated company must have in-house thermal chamber facility which can maintain 35 Degree C for System assembly thermal testing. The facility should be able to accommodate the enclosures to be designed as per the specifications given in this tender.
- 4.11. The bidder shall submit a project plan with tentative timelines for executing the tasks under Scope of Supply, Work and Services as in Section V.
- 4.12. The bidder must quote for all the items given in Section V of this document.
- 4.13. The bidder must submit all the documents as per Document Checklist – **Annexure E**, with appropriate page nos for the same. The flow of the submitted documents must be in the same order.

Note:

The bidder is required to submit necessary and sufficient documents in support of eligibility criteria stipulated above and exemptions mentioned in point 5 below. C-DAC reserves the right to reject any bid not fulfilling the eligibility criteria.

C-DAC/TEC may carry out spot inspection & qualify bidder's Mechanical facilities as per the tender requirement. The bidders must facilitate the visit as per request of C-DAC.

5. Exemptions/Mandatory Notifications:

If in the view of bidder, any exemptions / relaxations are applicable to them from any of the eligibility requirements, under any Rules, process, Guidelines, Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule, process, Guidelines or Directives. In this case the bidder must submit necessary and sufficient valid documents along with the technical bid, in support of their claim. The relevant and valid certificates in support of claim of exemption must be submitted. Bidders should abide by all the latest Govt Notifications published w.r.t. the contents, items of the tender.

6. Amendment to Bidding Documents

- 6.1. At any time prior to the deadline for submission of bids, C-DAC may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.
- 6.2. The amendments to the tender documents, if any, will be notified by release of Corrigendum Notice on www.eprocure.gov.in/eprocure/app/ / www.cdac.in/



[tender](#) against this tender. The amendments/ modifications will be binding on the bidders.

- 6.3. C-DAC at its discretion may extend the deadline for the submission of bids if it thinks necessary to do so or if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into consideration the amendments while preparing their bids.

7. Preparation of Bids

Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents. In case however, any corrections, overwriting, erasures or postscripts have to be made in the bids, they should be supported by dated signatures of the same authorized person signing the bid documents. However, bidder shall not be entitled to amend/ add/ delete/ correct the clauses mentioned in the entire tender document.

8. Earnest Money Deposit (EMD)

- 8.1. The bidder must submit an undertaking pertaining to Earnest Money Deposit (EMD), as per the format given in **Annexure – C**.
- 8.2. The successful bidder, on award of contract / order, must send the contract/ order acceptance in writing, within 7-10 days of award of contract/ order, failing which C-DAC reserves the right to execute the penalty as per the undertaking – Annexure-C and cancel the order.
- 8.3. The EMD undertaking may be forfeited :
- If the bidder withdraws the bid during the period of bid validity specified in the tender.
 - In case a successful bidder, fails to furnish the Security Deposit (Refer Clause 2 of Section III).
 - If the bidder fails to furnish the acceptance in writing, within 7-10 days of award of contract/ order.

9. Period of validity of bids

- 9.1. Bids shall be valid for minimum 120 days from the date of submission. A bid valid for a shorter period shall stand rejected.
- 9.2. C-DAC may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such request without forfeiting the EMD/BG. A bidder agreeing to the request for extension will not be permitted to modify his bid.

10. Submission of Bids- Online:

The Bid documents shall be neatly arranged and all pages should be numbered. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. **The conditional bid will be summarily rejected.** Insertions,



postscripts, additions and alterations shall not be recognized, unless confirmed by bidder's signature.

11. Bid Opening & Evaluation of Bids

The technical bids will be evaluated in two steps.

- 11.1. The bids will be examined based on eligibility criteria stipulated at Para 4 of Section – II to shortlist the eligible bidders.
- 11.2. The technical bids of only the short-listed eligible bidders shall be evaluated based on technical requirements and specifications stipulated at Section – IV.
- 11.3. The bidders whose technical bid is found to meet both the requirements as specified above will qualify for opening of the commercial bid and will be informed about the date and time of the opening of the commercial bid.
- 11.4. The duly constituted Tender Evaluation Committee (TEC) shall evaluate the bids. The TEC shall be empowered to take appropriate decisions on minor deviations, if any.

12. Comparison of Bids

- 12.1. Only the short-listed bids from the technical evaluation shall be considered for commercial comparison.
- 12.2. The total price quoted for all the items as listed in Section – V (including concessional GST, as applicable) will be considered for evaluation and comparison.

13. Award of Contract

- 13.1. C-DAC shall place the order(s) on the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid (L1). However, C-DAC reserves the right and has sole discretion to reject the lowest bid.
- 13.2. If more than one bidder happens to quote the same lowest price, C-DAC reserves the right to place the order on the eligible bidder having larger sales turn-over for last financial year. The decision of C-DAC shall be final.
- 13.3. The contract will be awarded to the L1 bidder for the quantity mentioned in this Tender by C-DAC.

14. Purchaser's Right to amend / cancel

- 14.1. C-DAC reserves the right to amend the eligibility criteria, commercial terms & conditions, Scope of Supply, quantities, technical specifications etc.
- 14.2. C-DAC reserves the right to cancel the entire or partially tender without assigning any reasons thereof.
- 14.3. C-DAC reserves the right to reject the bid submitted by the lowest evaluated bidder.

15. Corrupt or Fraudulent Practices



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- 15.1. It is expected that the bidders who wish to bid for this project have highest standards of ethics.
 - 15.2. C-DAC will reject bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract;
 - 15.3. C-DAC may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the award / execution of contract.

16. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, the interpretation of the clauses by Director General, C-DAC shall be final and binding on all parties.

(END OF SECTION II)



SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)

1. Prices

- 1.1. The price quoted shall be considered firm and no price escalation will be permitted (except Govt. Statutory Levies).
- 1.2. Bidders must quote in INR only.
- 1.3. The prices quoted must be “All inclusive- till destination” C-DAC, Pune basis including packing, insurance, and freight charges, loading, unloading etc.
- 1.4. Cost overruns above the Purchase order value if any, due to changes, quantity of components, scope of work, etc. during the manufacturing shall not exceed 10% of the Purchase Order value. Such cost overrun if any shall be mutually decided.
- 1.5. As C-DAC is registered under DSIR, the Certificate towards Concessional GST will be issued by C-DAC under Notification 43/17- 47/17(Integrated Tax) (or latest thereto), wherever applicable; on submitting the appropriate documents/HSN Code etc.
- 1.6. The concessional GST extra as applicable at the time of supply of material and / or services shall be applicable.
- 1.7. The exact rate of duty / taxes, charges currently applicable considering concessional GST, if any must be mentioned in the ‘commercial bid format’ by the bidder. The statutory taxes and duties applicable at the time of supply of material shall be applicable.
- 1.8. The responsibility, cost and risk of the consignment shall rest with the bidder till receipt of goods is acknowledged by the end user at C-DAC, Pune. However, such receipt/ acknowledgement shall not be treated as acceptance of goods.

2. Security Deposit (SD):

The successful bidder will be required to furnish the Security Deposit in INR equivalent to 5 % of the order value within 7-10 days of receipt of Supply Order. The Security Deposit should be submitted in the form of Demand Draft/Bank Guarantee drawn in favour of C-DAC payable at Pune. The Security Deposit will be valid for the period till completion of supply and will be returned upon completion of supply and on submission of Performance Bank Guarantee (PBG).

3. Performance Bank Guarantee (PBG):

The successful bidder will be required to furnish the Performance Guarantee towards the supplies etc. supplied, in the form of a Bank Guarantee in INR equivalent to 3 % amount of the total order value, as per the format attached to this document (**Annexure D**). This bank guarantee should be submitted along with the invoice after supply within 15 days. The Bank Guarantee shall remain valid for the period of 26 months from the date of acceptance. The PBG must be negotiable at a branch of issuing bank in India. In case of no warranty/services claims towards the items under warranty and services during the validity period of bank guarantee, the PBG will be returned on completion of warranty period.



C-DAC reserves the right to invoke the Performance Bank Guarantee(s) submitted by bidder, in case of the following:

- a. The Components/prototypes, fail to achieve the performance as stipulated in this document or
- b. The bidder fails to provide the warranty and other services in scheduled time frame, as stipulated in this document or
- c. The bidder delays to provide the warranty services as stipulated in this document.

4. Completeness Responsibility:

Notwithstanding the scope of work, engineering, supply and services stated in bid document, any equipment or material, engineering or technical services which might not be even specifically mentioned under the scope of supply of the bidder and which are not expressly excluded there from but which – in view of the bidder - are necessary for the performance of the prototypes in accordance with the specifications are treated to be included in the bid and has to be performed by bidder.

The items which are over & above the scope of supply specified in the Schedule of Requirements may be marked as “Optional Items”.

5. Warranty:

The bidder warrants that all the components used for manufacturing chassis are new, unused and have been procured from original manufacturers, authorized distributors only. The bidder further warrants that the devices are not defective and comply with the Part Number as appearing in the Bill of Material.

The manufactured enclosures supplied must have 2 (Two) years warranty from the date after the testing of performances and acceptance by C-DAC, Pune.

The defects arising, if any, during the guarantee/warranty period shall be rectified by the bidder free of charge or by arranging free replacement wherever applicable, within two weeks.

Support to C-DAC may be extended over telephone or e-mail in certain cases with a response time of 1 business day.

C-DAC reserves the right to revoke the amount equivalent to the Performance Bank Guarantee submitted by bidder, in the following cases:

- a. The bidder fails to provide the warranty and other services in scheduled time frame, as stipulated in this document or
- b. The bidder fails to respond to complaints regarding defects, unreliable operation of the supplied material during the warranty period.

The warranty support will be backed by supplier by submitting a Performance Bank Guarantee, as per para 3 of Section – III.



6. Acceptance Criteria

Bidder needs to satisfactorily execute scope of work, services, supply and acceptance criteria as defined in Section IV.

7. Payments:

- 7.1. 80% payment will be released within 30 days of receipt and acceptance of Prototype supply of the 1U and 2U chassis along with other deliverables as mentioned in Section IV.
- 7.2. Balance 20% payment shall be released after successful verification, testing and acceptance by C-DAC and on submission of Performance Bank Guarantee of amount, as stipulated at para 3 above.
- 7.3. Applicable TDS will be deducted.

8. Penalty for delayed Delivery /Services

- 8.1. In case, the supplier fails to complete any part of scope of the work (i.e. delivery, acceptance etc.) or part thereof within the period as stipulated in the order, C-DAC reserves the right to recover from the supplier, as agreed liquidated damages and not by way of penalty, a sum of 0.5% of the price of total order value for each week or parts thereof, of the delay, subject to a maximum of 5% of basic contract value without taxes.
- 8.2. The delay in delivery/ services for the reasons not attributed to supplier viz. delay in response and/or preparedness from C-DAC, delay in submission of required documents, technical information by C-DAC etc. and the conditions arising out of Force Majeure will not be considered for the purpose of imposing the penalties.
- 8.3. C-DAC reserves the right to cancel the order in case of delays of more than 10 weeks.

9. Force Majeure:

C-DAC may consider relaxing the liquidated damages and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states / state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond control of the bidder.

10. Arbitration:

In case any dispute arises between the C-DAC and successful bidder with respect to this RFP, including its interpretation, implementation or alleged material breach of any of its provisions both the Parties hereto shall endeavour to settle such dispute amicably. If the



Parties fail to bring about an amicable settlement within a period of 30 (thirty) days, dispute shall be referred to the sole arbitrator mutually appointed by both the parties. If the sole arbitrator is not appointed mutually by both the parties then the District Court Pune shall have exclusive jurisdiction for appointment of sole arbitrator through court. Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and Rules made there under, or any legislative amendment or modification made thereto. The venue of the arbitration shall be Pune. The language of arbitration shall be English. The common cost of the arbitration proceedings shall initially be borne equally by the Parties and finally by the Party against whom the award is passed. Any other costs or expenses incurred by a Party in relation to the arbitration proceedings shall ultimately be borne by the Party as the arbitrator may decide. Courts in Pune only shall have the exclusive jurisdiction to try, entertain and decide the matters which are not covered under the Arbitration and conciliation Act.

11. Risk:

All risks, responsibilities and liabilities thereof in all goods shall remain with selected bidder till successful delivery of the goods as specified in this document.

12. Limitation of Liability:

The liability of the bidder arising out of breach of any terms, conditions of the tender, contract, works order and addendums/amendments thereto, misconduct, and wilful default will be limited to the total order value. However, liability of the bidder in case of death, injury, damage caused to the personnel/property due to/arising out of/incidental to any act/omission/default/deficiency of bidder, will be at actuals.

In no event shall either Party, its officers, directors, or employees be liable for any form of incidental, consequential, indirect, and special or punitive damages of any kind.

13. Intellectual Property Rights:

The bidder to whom the contract will be awarded shall not at any time claim that the Mechanical design or any Intellectual Property Rights (IPR) in this project belongs to them. C-DAC shall be the legal owner of all the data and all rights pertaining to the design and any other output of the contract will remain with C-DAC.

14. Confidentiality:

The bidder to whom the contract is awarded shall maintain confidentiality of all technical information released for executing the tasks and created during the contract under 'Scope of Supply and works'.

15. Termination:

Validity of order/ Contract will remain till fulfilment of all obligations (Including but not limited to providing comprehensive warranty/support till Completion of two years from acceptance of the supplies by the successful bidder. If bidder fails to comply with the requirements, C-DAC shall have the right to terminate the contract and / or cancel the order/s. The successful bidder agrees and accepts that he shall be liable to pay damages



claimed by C-DAC, in the event of termination of contract / cancellation of order, as detailed in this tender.

C-DAC will release the due amount payable to successful bidder towards the material and / or services provided till the date of termination, those are accepted by C-DAC/ end user. However, the amount towards penalty, if any will be deducted from the payable amounts.

16. Indemnity:

On acceptance of order, the successful bidder shall automatically indemnify, protect and save C-DAC and end user from/against all third-party claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from/arising out of:

- a. infringement of any law pertaining to intellectual property, patent, trademarks, copyrights etc. by the bidder
- or
- b. such other statutory infringements in respect of any of the equipment supplied by successful bidder,
- or
- c. any wilful misconduct or gross negligence act/omission/ performance/ under or non or part performance/failure of the bidder.

17. Assignment:

Selected bidder/ Party shall not assign, delegate or otherwise deal with any of its rights or obligation under this Contract without prior written permission of C-DAC.

18. Severability:

If any provision of this Contract is determined to be invalid or unenforceable, it will be deemed to be modified to the minimum extent necessary to be valid and enforceable. If it cannot be so modified, it will be deleted and the deletion will not affect the validity or enforceability of any other provision.

19. Jurisdiction:

The disputes, legal matters, court matters, if any shall be subject to Pune jurisdiction only.

(END OF SECTION III)



SECTION IV: SCOPE OF WORK, SERVICES and SUPPLY

1. Details about the Server Enclosures:

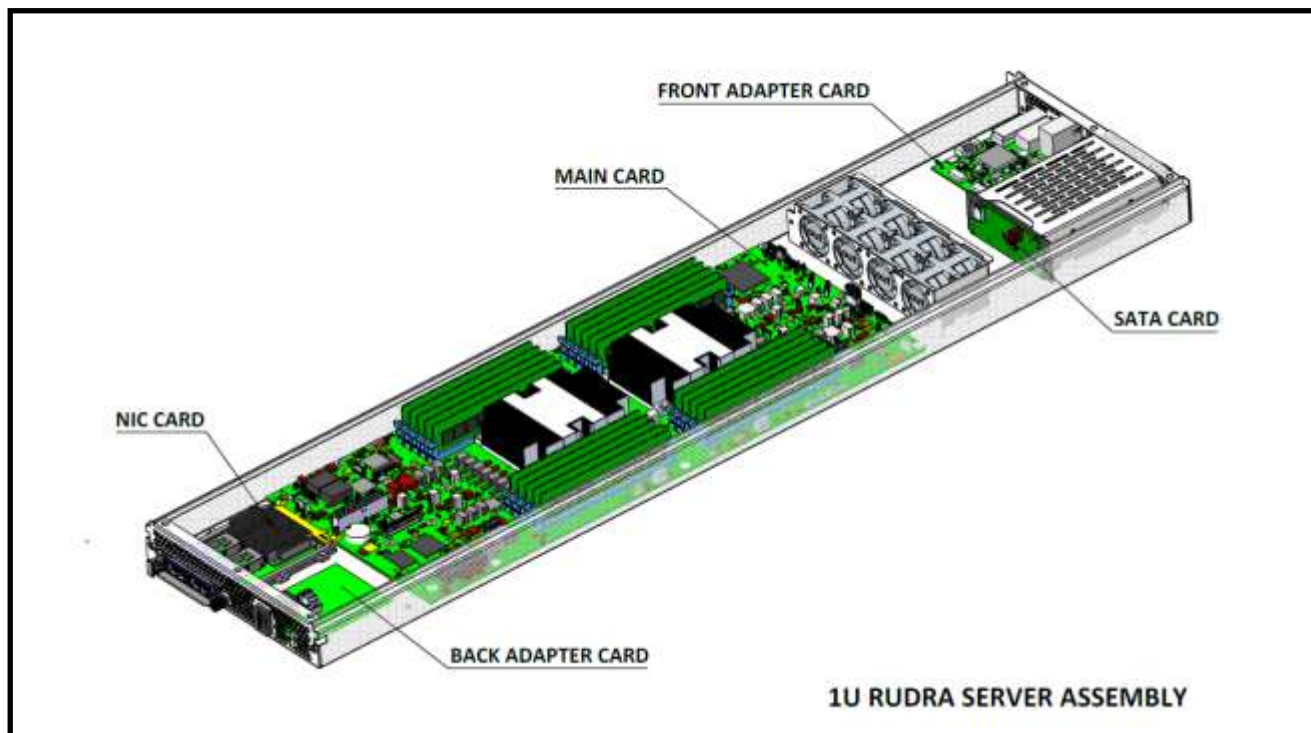
C-DAC is designing and building state-of-the-art Server Platform for HPC system with their indigenously developed Server Platform. The Server Platform is developed for both 1U and 2U form factors. C-DAC has carried out the Mechanical design of Enclosures for both 1U and 2U server platforms. C-DAC is looking partner for manufacturing the Enclosures.

2. Scope of Supply and Work:

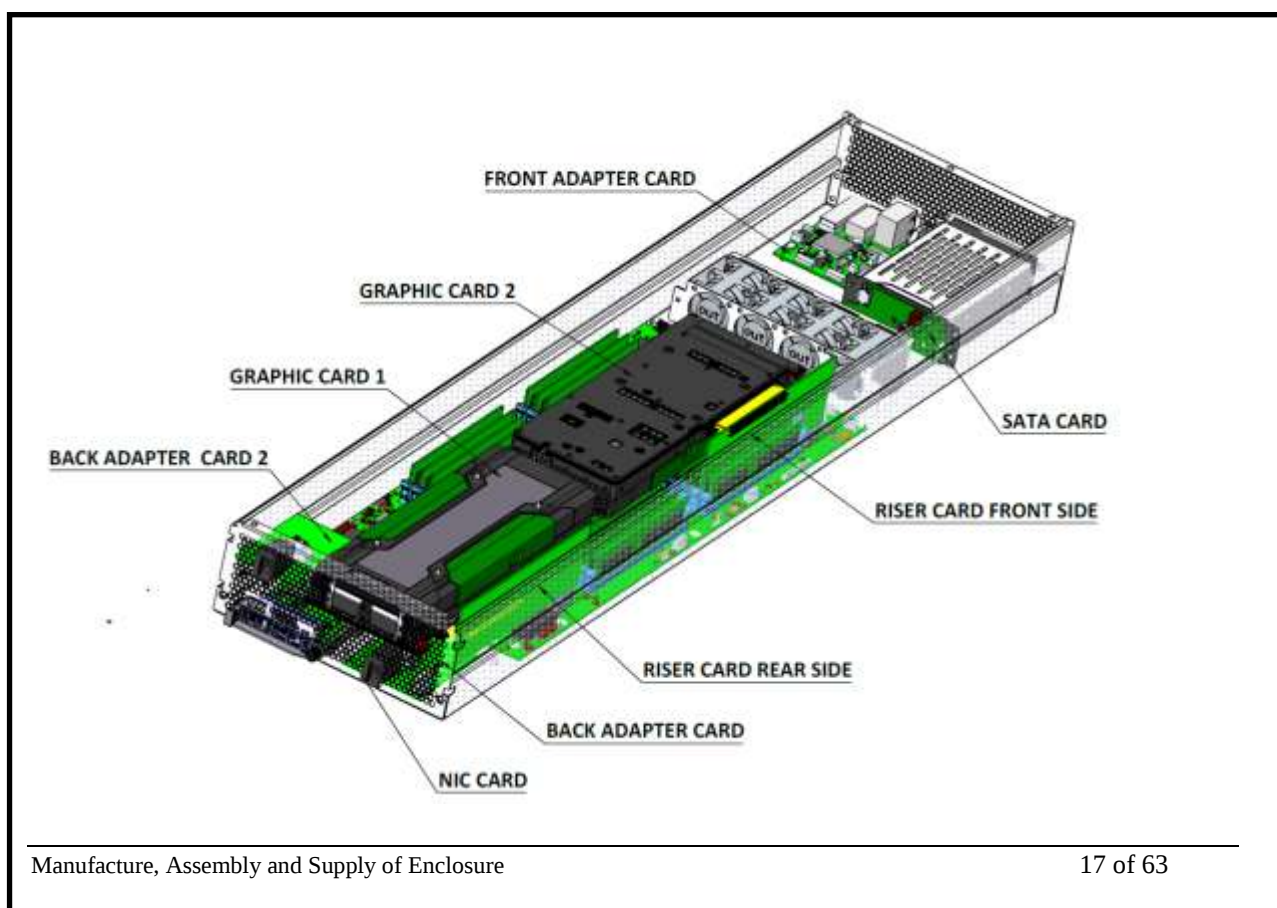
The data for Mechanical Chassis design data for 1U and 2U form factor will be released by C-DAC to the Service partner, after which the Service partner will carry out the scope of work mentioned below.

- i. After releasing the Mechanical designs for 1U and 2U enclosures by C-DAC, the changes if required for fabrication will be done by bidder.
- ii. The Mechanical Enclosure for the Server Platform should be manufactured using SGCC galvanized steel material and required tools.
- iii. The engineering includes the required 12V fans and Fan cable assembly.
- iv. Heatsinks manufacturing as per the specifications and supply of required quantity.
- v. The prototype assembly of enclosure Lot1 will be supplied to C-DAC for approval.
- vi. The mechanical tools/moulds/patterns required for manufacturing to be made by successful bidder. These will be owned by C-DAC if specifically designed for the C-DAC's design.
- vii. Thermal testing for the 1U and 2U systems in the Thermal Chamber and provide reports
- viii. Tentative Mechanical details of the for 1U and 2U Chassis given in Annexure and assembly details of enclosures are given below:

Rudra assembly for 1U



Rudra assembly for 2U





The overall scope of work involves following:

- a. Proto-type manufacturing of Mechanical chassis
- b. The mechanical tools/moulds/patterns required for manufacturing to be made by successful bidder. These will be owned by C-DAC if specifically designed for the C-DAC's design.
- c. Heatsinks manufacturing and supply of required quantity as per Details given in Annexure
- d. Assembly of FANs and Cables as per Details given in Annexure.
- e. Supply of assembled enclosures with Fans and cable assemblies
- f. Thermal testing for 1U and 2U server assembly in the Thermal chamber and provide reports

The successful bidder shall regularly update about the progress of execution of tasks by electronic mail. The frequency of reporting may be indicated in the project plan that shall be submitted along with the bids.

3. Deliverables from C-DAC to Successful Bidder to:

- a. 1U and 2U Mechanical chassis design drawings
- b. BOM for FANs and cable assembly
- c. Heatsinks design drawings

4. Deliverables from successful bidder to C-DAC:

- a. Manufactured and assembled 1U and 2U Enclosures and items as per following table.

Sr.No	Item	Lot1 QTY	Lot2 QTY
1	1 U server Assembled Enclosure with fans and cable assembly	10	60
1.1	Spare five cables of each type and 10 numbers of fans for 1U Enclosure		1
2	2 U server Assembled Enclosure with fans and cable assembly	10	90
2.1	Spare five cables of each type and 10 numbers of fans for 2U Enclosure		1
3	Heat sinks required for each server brick (2 + 1)	20	150



- b. If updated, the entire design database for mechanical design shall be handed over to C-DAC so that C-DAC should be in a position to independently manufacture chassis for future requirements. The tools if any will be owned by C-DAC.
- c. Thermal simulation of the Server assembly provided by C-DAC for 1U and 2U Enclosures chassis in the Thermal Chamber and monitored temperature results submitted to C-DAC

5. Other requirements:

- a. The successful bidder shall enter into an NDA with C-DAC to the effect that the Mechanical design *released to them by C-DAC is treated as confidential*.
- b. The components for assembly shall be procured by the successful bidder. The components must be procured only from the respective manufacturers (OEMs) or their authorized dealers.

6. Acceptance Criteria:

C-DAC will accept the completed Mechanical Chassis with following criteria are met.

- a. Supply of Assembled Enclosures along with Heatsinks, spare cables, fans as per schedule
- b. Verification of delivered Enclosures with server assembly by C-DAC Engineers.

(END OF SECTION IV)



SECTION V: UNPRICED BID / B.O.Q.

Sr.No	Item	Unit	QTY.	Item Rate (In INR)	GST Amounts (In INR)	Total Amount without GST (In INR)	Total Amount with GST (In INR).
1	1U Enclosure with fans and cable assembly	Set	70				
1.01	One time setup charges like tooling, special jigs/fixtures, moulds, patterns etc. if any.	Lot	1				
1.02	Spare five cables of <u>each type</u> and 10 numbers of fans for 1U Enclosure	Lot	1				
2	2U Enclosure with fans and cable assembly	Set	100				
2.01	One time setup charges like tooling, special jigs/fixtures, moulds, patterns etc. if any.	Lot	1				
2.02	Spare five cables of <u>each type</u> and 10 numbers of fans for 2U Enclosure	Lot	1				
3	Heat sinks required for each server brick (2 + 1)	Nos	170				
3.01	One time setup charges like tooling, special jigs/fixtures, moulds, patterns etc. if any.	Lot	1				
4	Charges towards - Thermal Simulation in the thermal chamber for single 1U and 2U Enclosure	Job each	2				
5	Any other charges required for completing the fabrication, assemblies, cable connections assly. Etc.	Lot	1				
6	Any other charges, overheads, loading, unloading, etc.	Lot	1				
GRAND TOTAL (In INR) F.O.R. C-DAC, Pune basis.							



Note:

1. Realistic One-time charges like design charges, tooling charges to be quoted separately. If clubbing of onetime charges in prototype charges is noticed, the bid may get rejected.
2. For commercial bid comparison total of all above charges will be considered.

(END OF SECTION V)



ANNEXURE A – COVERING LETTER

Date:

To:

**The Director General,
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA**

Subject: Submission of bid for Manufacture, Assembly and Supply enclosure

Dear Sir,

We, the undersigned, offer to supply 'RUDRA' Enclosures with cooling fans, cable assemblies etc. to C-DAC, in response to your Tender No **CDACP/NSM-RUDRA-BRICKS-1U-2U/20-21/323**. We are hereby submitting our proposal for same, which includes Technical bid and the Financial Bid on www.eprocure.gov.in

We hereby declare that all the information and statements made in this bid are true and we accept that any misinterpretation contained in it, may lead to our disqualification.

We undertake, if our proposal is accepted, to submit a Security Deposit of 5 % of the contract / order value, as per terms stipulated in the tender.

We confirm that the deliveries will be done within 6 weeks, if the order is placed.

We hereby certify that my/ our firm has not been disqualified and / or blacklisted by any Office/ Department/ Undertaking of the State Government / Central Govt. of India, PSU/ Autonomous Body of Government of India, at the time of submission of this bid.

We agree to abide by all the terms and conditions of the tender document, including corrigenda. We would hold the terms of our bid valid for 120 days as stipulated in the tender document.

We understand you are not bound to accept any Proposal you receive.

The undersigned is authorized to sign this bid document. The authority letter to this effect is enclosed.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:



ANNEXURE B – AUTHORITY LETTER

Date:

To:

**The Director General,
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA**

Subject: Authority Letter

Reference: Tender No **CDACP/NSM-RUDRA-BRICKS-1U-2U/20-21/323**

Dear Sir,

We, M/s _____ (Name of the bidder) having registered office at
_____ (address of the bidder) herewith submit our bid against the said tender
document.

Mr./Ms. _____ (Name and designation of the signatory), whose signature is appended
below, is authorized to sign and submit the bid documents on our behalf against said RFP

Specimen Signature:

The undersigned is authorised to issue such authorisation on behalf of us.

For M/s _____ (Name of the bidder)

Signature and company seal

Name

Designation

Email

Mobile No.



ANNEXURE C – EMD UNDERTAKING

Date:

To:

The Director General,
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road,
Pune - 411008 Maharashtra, INDIA

Subject: Undertaking as per GFR – 2017, Rule 170(iii)

Dear Sir,

We, the undersigned, offer to Manufacture & Supply the **Assemblies** as per tender at C-DAC, Pune, in response to your Tender No CDACP/NSM-RUDRA-BRICKS/20-21/323. We hereby submitting our proposal for same, which includes Technical bid and the Financial Bid through www.eprocure.gov.in. As a part of eligibility requirement stipulated in said tender document, we hereby submit a declaration in lieu of Earnest Money Deposit (EMD), as given below:

1. Our bid shall remain valid for 120 days from the date of submission and that we will not withdraw or modify our bid during the validity period,
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7-10 days of placement of order on us.
3. In case, we are declared as successful bidder and an order is placed on us, we undertake, to submit a Security Deposit of 5 % of the order value, as per terms stipulated in the tender.
4. In case of failure on our part to comply with any of the above said requirements, we are aware that we shall be declared as un-eligible for said tender and /or debarred from any **future bidding process of C-DAC for a period of minimum one year.**
5. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:



ANNEXURE D – PROFORMA OF BANK GUARANTEE

(on non-judicial paper of appropriate value)

To,

**Centre for Development of Advanced Computing
Innovation Park, PANCHAVATI,
Pashan Road, Pune – 411 008**

BANKS GUARANTEE NO:

DATE:

Dear Sir(S)

This has reference to the Purchase Order No. _____ Dated _____ been placed by Centre for Development of Advanced Computing(C-DAC), Pune on M/s _____ (Name & Address of vendor) for supply, installation, commissioning and warranty of _____ (description of items) at C-DAC, site.

The conditions of this order provide that the vendor shall,

1. Arrange to deliver the items listed in the said order to the consignee, as per details given in said order, and
2. Arrange to install and commission the items listed in said order at client's site, to the entire satisfaction of C-DAC and
3. Arrange for the comprehensive warranty service support towards the items supplied by vendor on site as per the warranty clause in said purchase order.

M/s (Name of Vendor) has accepted the said purchase order with the terms and conditions stipulated therein and have agreed to issue the performance bank guarantee on their part, towards promises and assurance of their contractual obligations vide the Supply Order No. _____ M/s. _____ (name of vendor) holds an account with us and has approached us and at their request and in consideration of the promises, we hereby furnish such guarantees as mentioned hereinafter.

C-DAC shall be at liberty without reference to the Bank and without affecting the full liability of the Bank hereunder to take any other undertaking of security in respect of the bidders obligations and / or liabilities under or in connection with the said contract or to vary the terms vis-a – vis the bidder or the said contract or to grant time and or indulgence to the bidder or to reduce or to increase or otherwise vary the prices or the total contract value or to forebear from enforcement of all or any of the obligations of the bidder under the said contract and/or the remedies of C-DAC under any security now, or hereafter held by C-DAC and no such dealing(s) with the bidder or release or forbearance whatsoever shall have the effect of releasing the bank from its full liability of C-DAC hereunder or of prejudicing right of C-DAC against the bank.

This undertaking guarantee shall be a continuing undertaking guarantee and shall remain valid and irrevocable for all claims of C-DAC and liabilities of the supplier arising up to and until _____ (date)



This undertaking guarantee shall be in addition to any other undertaking or guarantee or security whatsoever the that C-DAC may now or at any time have in relation to its claims or the supplier's obligations/liabilities under and / or in connection with the said contract and C-DAC shall have the full authority to take recourse to or enforce this undertaking guarantee in preference to the other undertaking or security (ies) at its sole discretion and no failure on the part of C-DAC in enforcing or requiring enforcement of any other undertaking or security shall have the effect of releasing the bank from its full liability hereunder.

We _____ (Name of Bank) hereby agree and irrevocably undertake and promise that if in your (C-DAC's) opinion any default is made by M/s _____ (Name of Vendor) in performing any of the terms and /or conditions of the agreement or if in your opinion they commit any breach of the contract or there is any demand by you against M/s _____ (Name of Vendor), then on notice to us by you, we shall on demand and without demur and without reference to M/s _____ (Name of Vendor), pay you, in any manner in which you may direct, the amount of Rs. _____/- (Rupees _____ Only) or such portion thereof as may be demanded by you not exceeding the said sum and as you may from time to time require. Our liability to pay is not dependent or conditional on your proceeding against M/s _____ (Name of Vendor) and we shall be liable & obligated to pay the aforesaid amount as and when demanded by you merely on an intimation being given by you and even before any legal proceedings, if any, are taken against M/s _____ (Name of Vendor)

The Bank hereby waives all rights at any time inconsistent with the terms of this undertaking guarantee and the obligations of the bank in terms hereof shall not be anywise affected or suspended by reason of any dispute or disputes having been raised by the supplier (whether or not pending before any arbitrator, Tribunal or Court) or any denial of liability by the supplier or any order or any order or communication whatsoever by the supplier stopping or preventing or purporting to stop or prevent payment by the Bank to C-DAC hereunder.

The amount stated in any notice of demand addressed by C-DAC to the Bank as claimed by C-DAC from the supplier or as suffered or incurred by C-DAC on the account of any losses or damages or costs, charges and/or expenses shall as between the Bank and C-DAC be conclusive of the amount so claimed or liable to be paid to C-DAC or suffered or incurred by C-DAC, as the case may be and payable by the Bank to C-DAC in terms hereof.

You (C-DAC's) shall full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s _____ (Name of Vendor) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s _____ (name of Vendor) which under law relating to the sureties would but for the provisions have the effect of releasing us.

You will have full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said M/s _____ (Name of Vendor) and to enforce or to forbear from endorsing any power or rights or by reason of time being given to the said M/s _____ (Name of Vendor) which under law relating to the sureties would but for the provisions have the effect of releasing us.



Your right to recover the said sum of Rs. _____/- (Rupees _____ only) from us in manner aforesaid will not be affected/ or suspended by reason of the fact that any dispute or disputes have been raised the said M/s _____ (Name of Vendor) and/ or that any dispute or disputes are pending before any officer, tribunal or court or Arbitrator.

The guarantee herein contained shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of the said M/s _____ (Name of Vendor) but shall in all respects and for all purposes be binding and operative until payment of all dues to C-DAC in respect of such liability or liabilities.

Our liability under this guarantee is restricted to Rs. _____/- (Rupees _____ Only). Our guarantee shall remain in force until unless a suit action to enforce a claim under guarantee is filed against us within six months from (which is date of expiry of guarantee) all your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

We have power to issue this guarantee in your favour under Memorandum and Articles of Association of our Bank and the undersigned has full power to do under the power of Attorney dated.

Notwithstanding anything contained herein:

- A. Our liability under this guarantee shall not exceed Rs _____ (in words)
- B. This bank guarantee shall be valid up to _____ & unless a suit for action to enforce a claim under guarantee is filed against us within 1 month from the date of expiry of guarantee. All your rights under the said guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there after i.e. after one month from the date of expiry of this Bank guarantee
- C. We are liable to pay the guaranteed amount or any parts thereof under this bank guarantee only and only if you serve upon us a written claim or demand or before _____
- D. The Bank guarantee will expire on (Min 26 months from the date of successful installations of the items in the order) _____

Granted by the Bank

SEAL OF THE BANK

Yours faithfully,
For (Name of Bank)

Authorised Signatory



ANNEXURE E – DOCUMENTS LIST / INDEX

Sr	Description	Page No (s)
1	Covering letter, as per Annexure – A.	
2	Authority letter, as per Annexure – B.	
3	Demand Draft towards tender fee of Rs. 1000/- (Rupees One Thousand Only) (Non-refundable / Non-Exempted).	
4	A copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association / any other equivalent document showing date and place of incorporation, as applicable, in support of eligibility criteria.	
5	Copies of PAN and GST registration certificates, as applicable.	
6	The detailed technical compliance for Scope of work, deliverables and technical requirements as in Section – IV.	
7	Unpriced FINANCIAL BID as per Section – V (without rate/prices)	
8	The copies of audited Profit and Loss Accounts OR the certificate from a Chartered Accountant certifying the annual sales turnover of the bidder for the last 3 financial years. (Min Rs. 1.50 Crores for each of last three financial years.)	
9	All documents and compliances necessary in support of eligibility criteria including compliance Mechanical facility	
10	The bidder must not be blacklisted by any Govt. Organizations as on date of submission of the bids. A certificate or undertaking to this effect must be submitted (Annexure – A).	
11	Any other documents as required as requirement of this tender document	
12	Details as per ANNEXURE-F	
e-Pkt-2	PRICE BID IN B.O.Q. FORMAT IN FINANCIAL BID (EPACKET-2)	



ANNEXURE F – Mechanical Facility

The successful Bidder is responsible for manufacturing of proposed Enclosure chassis with FANs and Cable assembly at its own premises or at bidder's affiliated company.

1. The Manufacturing/Fabrication must be done at factory in India.
2. The Metal Fabrication facility must be with AS/ISO certification
3. The bidder must use SGCC galvanized steel material for the Enclosure
4. The bidder should have following facilities at different stages
 - a. Designing facilities: 3D CAD software
 - b. Cutting facilities : Laser cutting/punching
 - c. Bending facilities : CNC cutting and CNC bending machine
 - d. Drilling and Tapping facilities
 - e. Inspection facilities
 - f. Sheet metal Assembly
5. The bidder should have Cable Assembly facility

The Bidder must give details of the entire manufacturing set up with its integrated system features relevant to proposed Enclosure manufacturing along with the bid.



ANNEXURE G – Mechanical Details

a. 1U Rudra Chassis (Brick Dimensions)

The brick is designed to be constructed to the overall dimensions is 901.70mm (36.500")X 226.3mm (8.909") X 41.65mm (1.64")

- **Brick Chassis – 900.44 X 212.31 X 41mm**
Material - 0.8 mm thick pre plated cold-rolled steel (SGCG)
- **Brick Top cover –899.05 X 210.35 X 16.6MM**
Material - 0.6 mm thick pre plated cold-rolled steel (SGCG)
- **Brick Facia – 226.3 X 40.25 X 10.65mm**
Material – 1.2 mm thick pre plated cold-rolled steel (SGCG)

b. 2U Rudra Chassis (Brick Dimensions)

The brick is designed to be constructed to the overall dimensions is 901.64mm X 226.3mm X 83.6mm

- **Brick Chassis – 900.44 X 212.31 X 83mm**
Material - 0.8 mm thick pre plated cold-rolled steel (SGCG)
- **Brick Top cover –899.05 X 210.35 X 16.6MM**
Material - 0.6 mm thick pre plated cold-rolled steel (SGCG)
- **Brick Facia – 226.3 X 82.2 X 10.65mm**
Material – 1.2 mm thick pre plated cold-rolled steel (SGCG)

Note: Detailed drawings for 1U and 2U systems and Bill of Material for 1U and 2U system Chassis as per Annexure H.



ANNEXURE H – Rudra 1U and 2U Enclosures with cable Assembly details

1. 1U Enclosure details with FAN and cable Assembly:

Total Number of Enclosures to be assembled: 70

Each Enclosure will have following parts

- a. 1U Chassis
- b. Fans with cable assembly: Delta Model: GFC412DS-DU49
- c. Cable assemblies for connecting different PCBs

No.	Description	Quantity/Enclosure
1	1U chassis	1
2	Fans with Cable assembly for 1U	4
3	Cable Assembly Details	
3a	Main board to facia card	1
3b	Back adapter card to Main board	1

2. 2U Enclosure details with FAN and cable Assembly:

Total Number of Enclosures to be assembled: 100

Each Enclosure will have following parts

- a. 2U Chassis
- b. Fan with cable assembly: Sanyo Denki Model no 9HV0612P1J001
- c. Cable assemblies for connecting different PCBs

No.	Description	Quantity/ Enclosure
1	2U Chassis	1
2	Fan with Cable assembly for 2U	3
3	Cable Assembly details	
3a	Main board to facia card	1
3b	2U Adapter card to front GPU	1
3c	2U Adapter card to rear GPU	1
3d	Main board to front Riser card	1
3e	Main board to rear Riser card	1
3f	Back adapter card to Main board	1

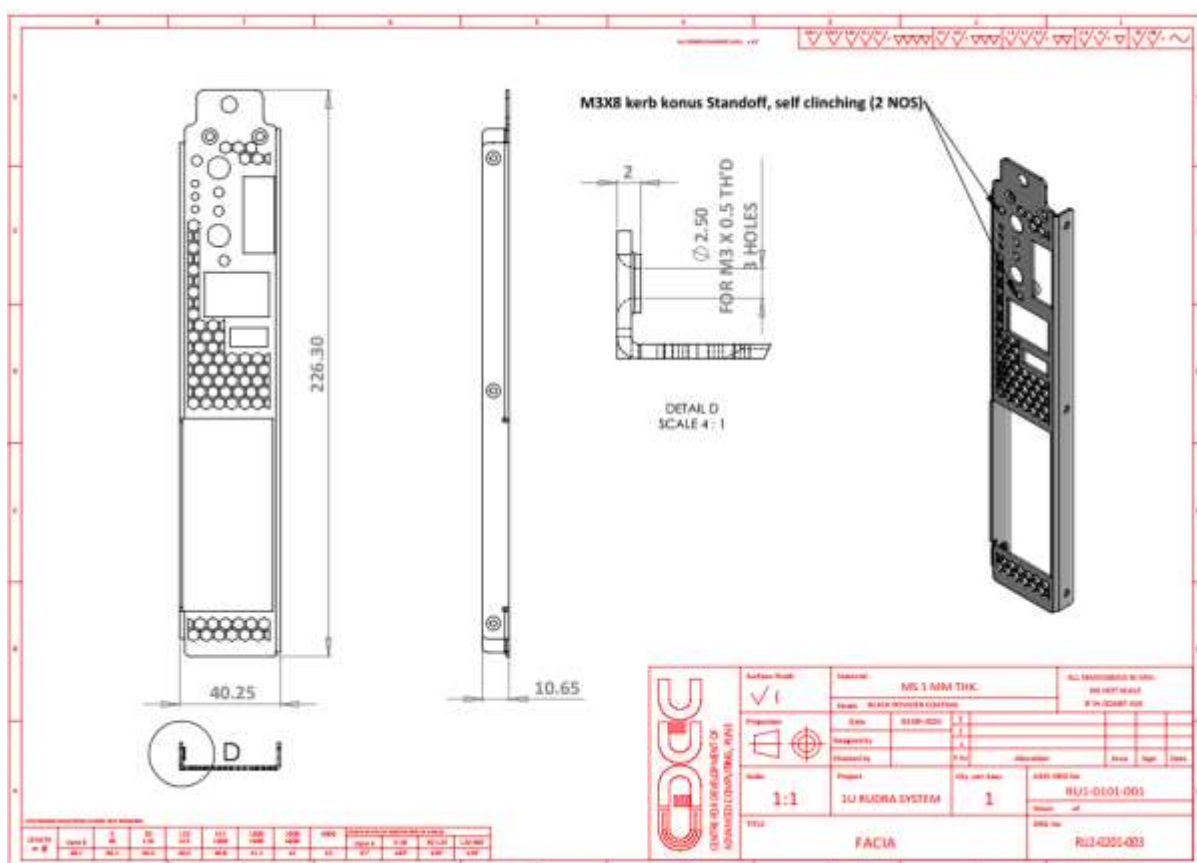
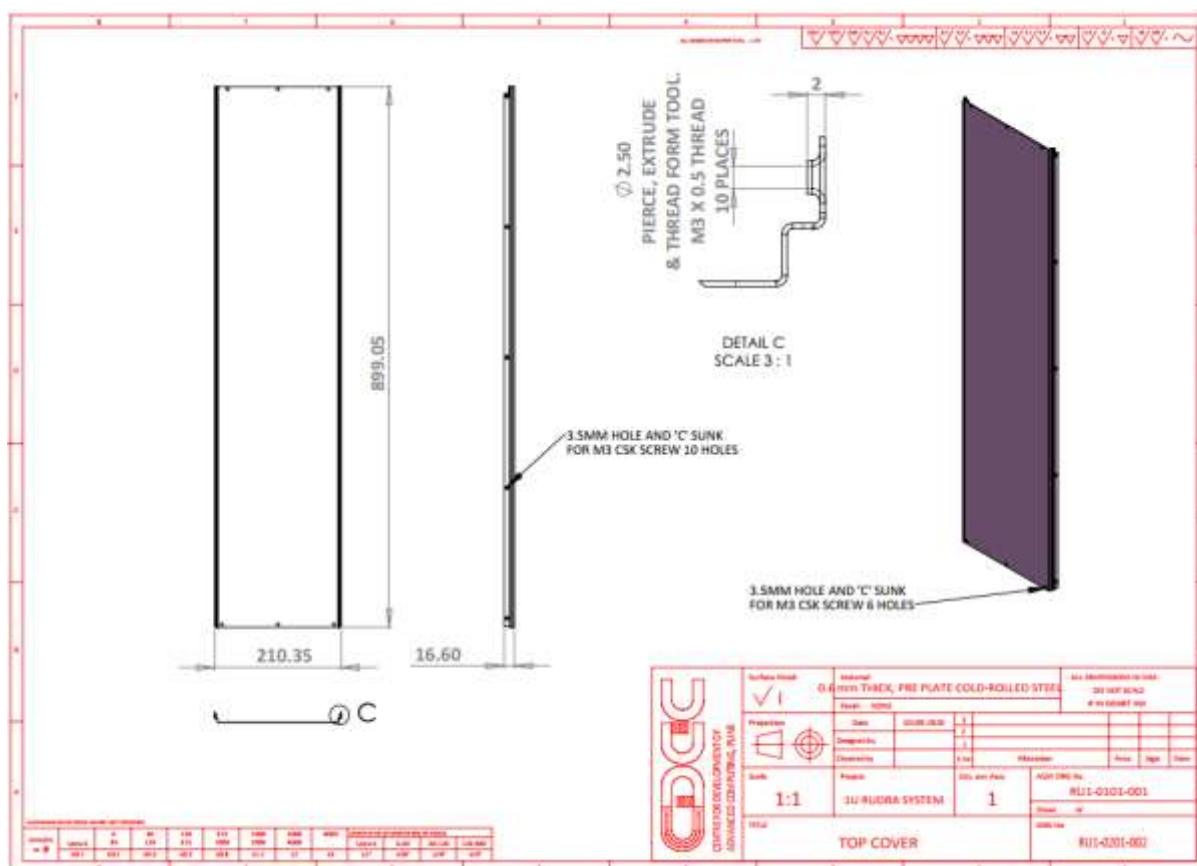
***Each Cable Assembly will have following parts with required no. of positions and cable length**

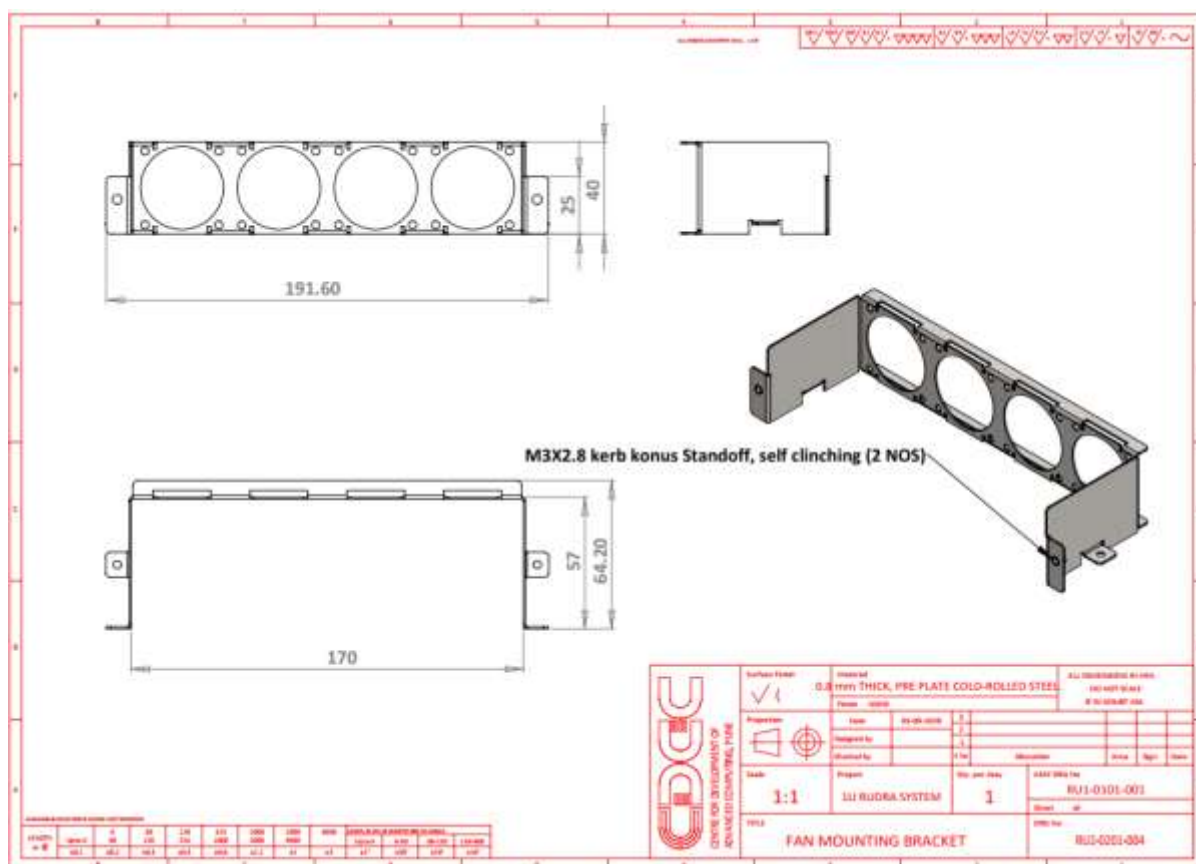
1. WIRE 16AWG
2. CONN RCPT HSG
3. CONN SOCKET 16AWG CRIMP TIN
4. CONN RECEPTACLES
5. CONN SOCKET 16AWG CRIMP TIN
6. CABLE TIE

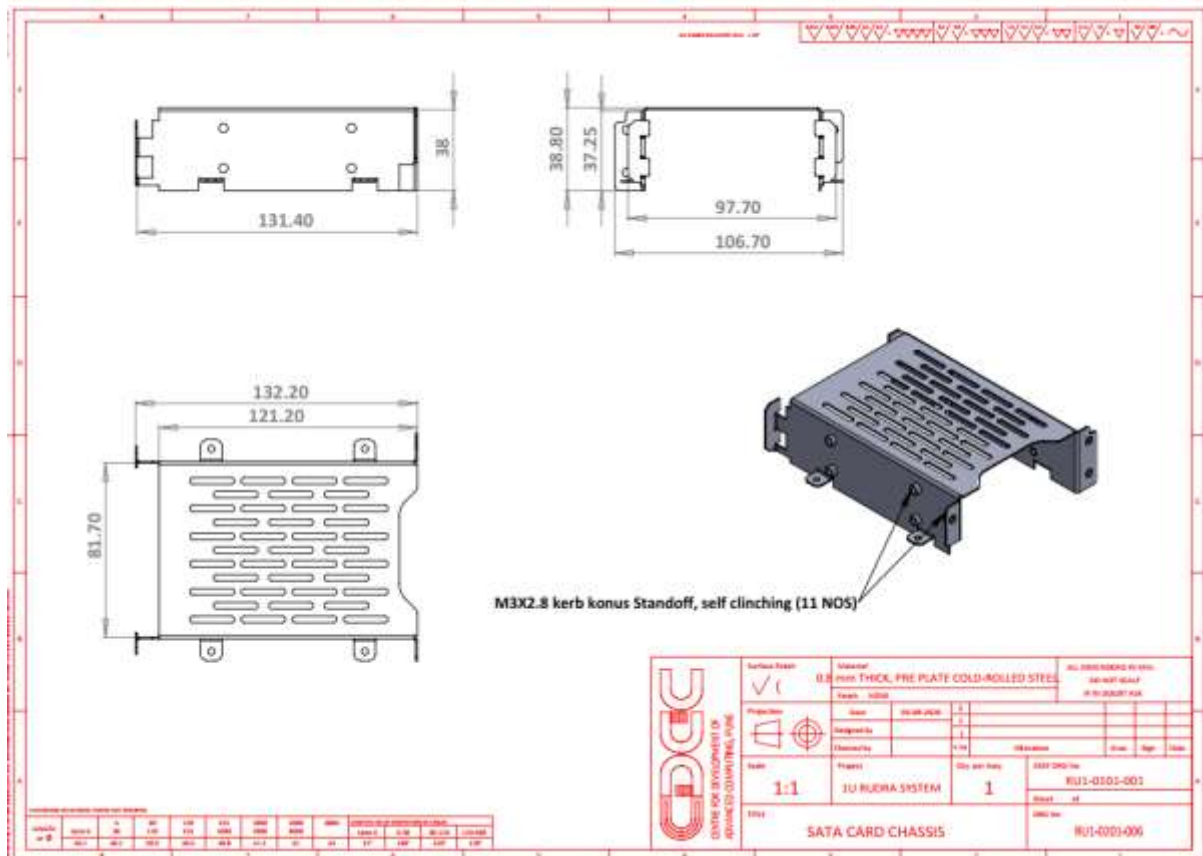
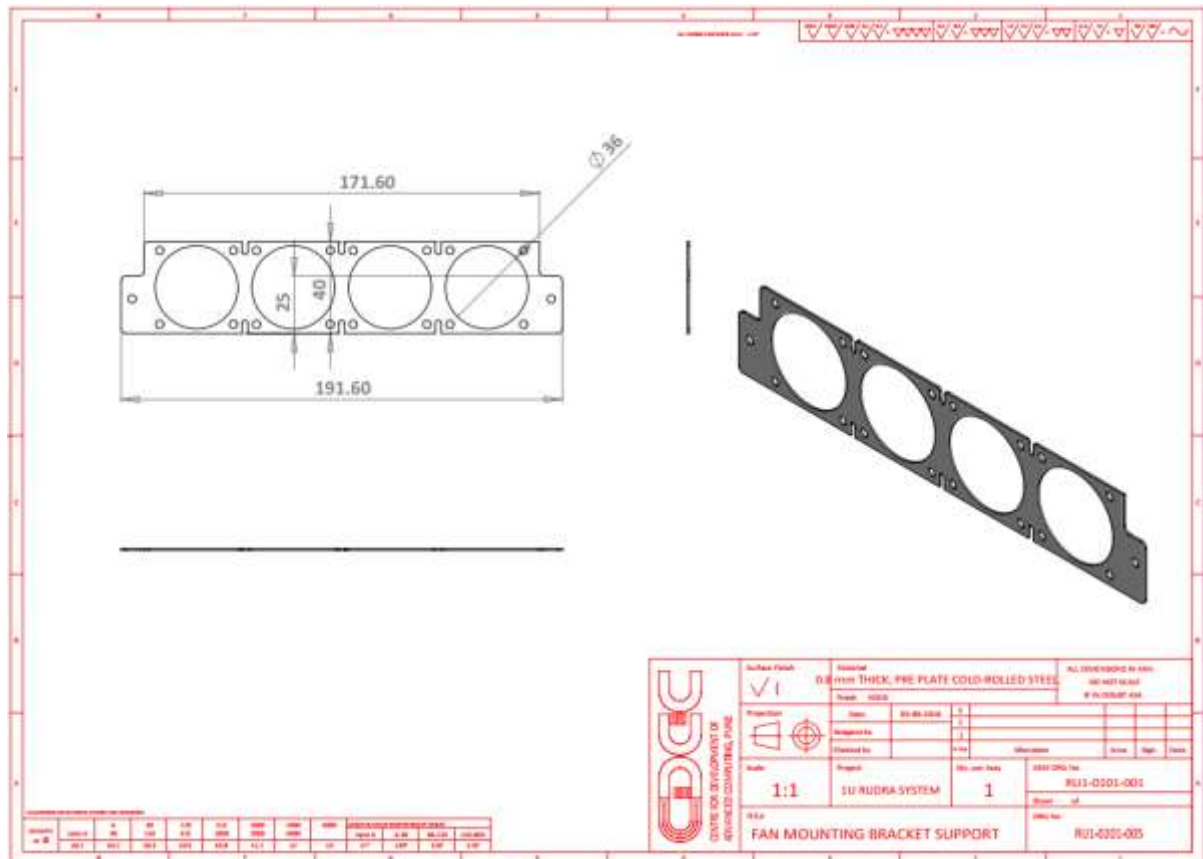


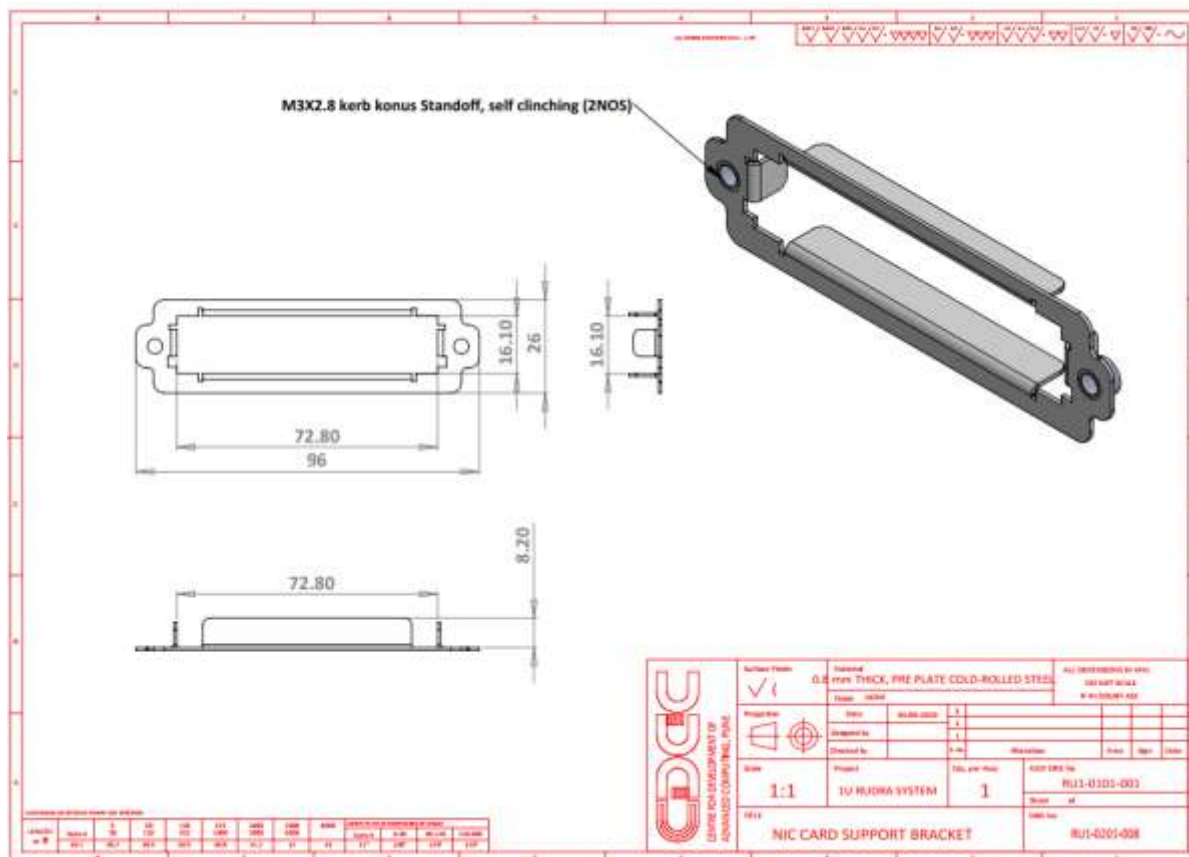
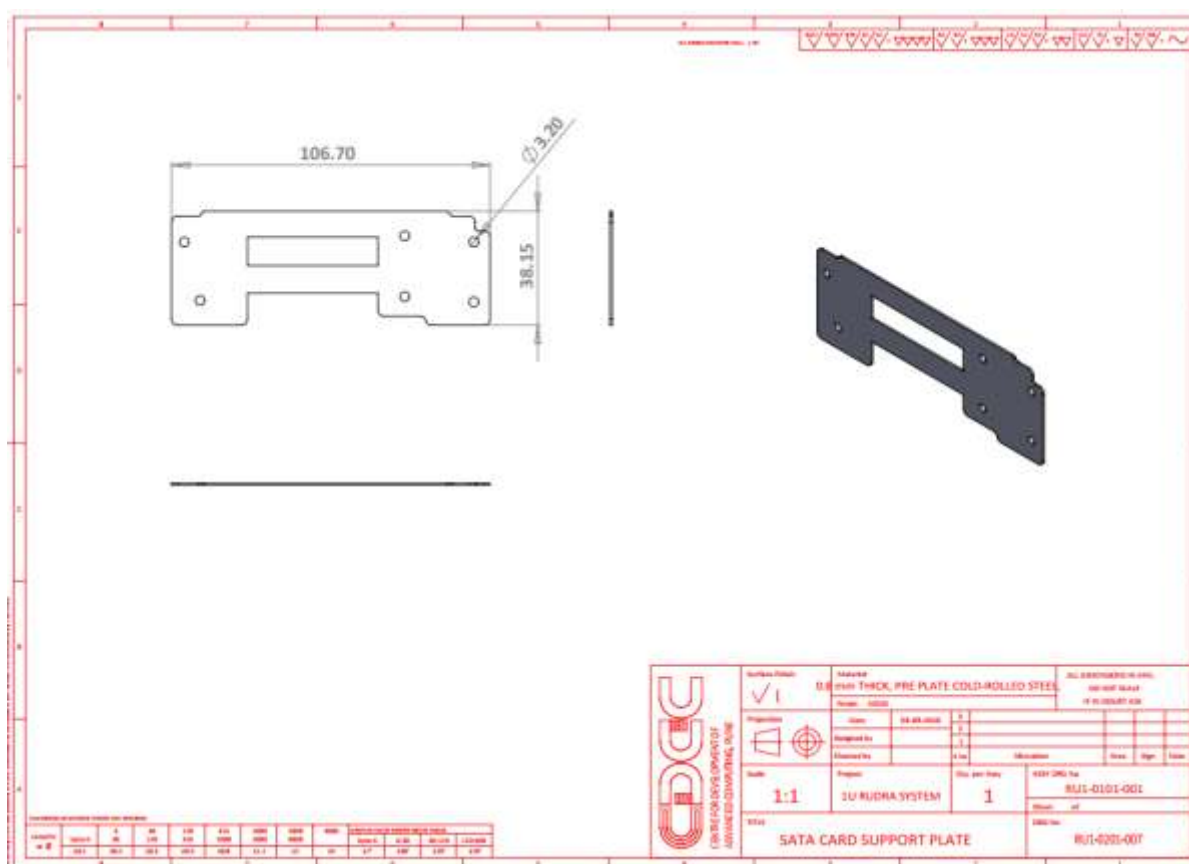
Cable Details:

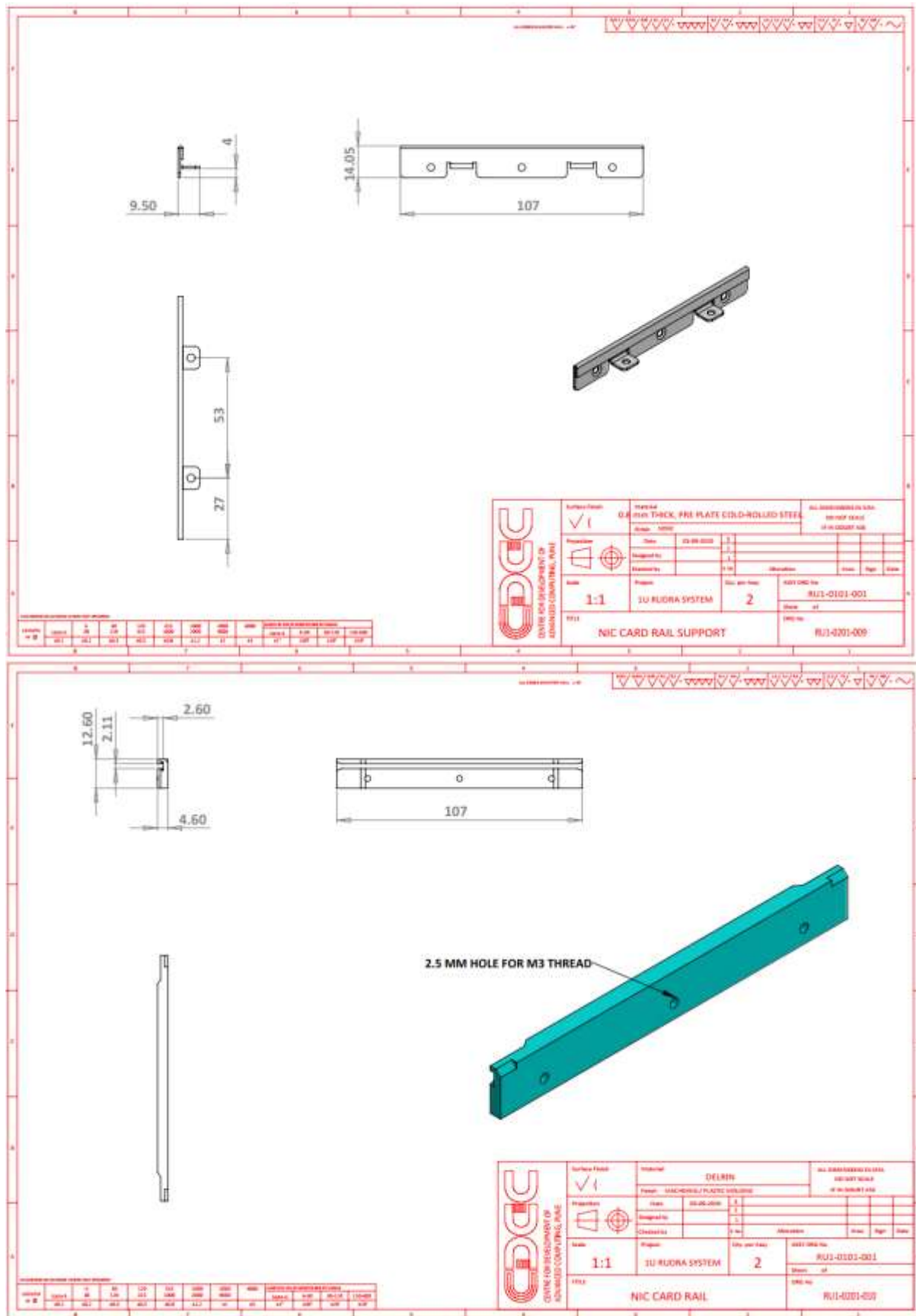
Sr No	Name	1U Length	2U Length	Description	Receptacle			Cable requirements
					Max current rating	MFG	MFG P/N	
1	BACK ADAPTER CARD TO MAIN BOARD	53MM	53MM	Main 12V power connector from back adaptor card 1U to Main board (24 pin right angled connector)	13 A per contact (Total 13*12=156 A)	Molex	39012240	16 AWG wires crimped to terminals at both ends with housing
2	2U BACK ADAPTER TO REAR GPU	NIL	430MM	12V power from BA 2U to GPUs (8 pin right angled connector)	13 A per contact (Total 13*4=52 A)	Molex	39012080	16 AWG wires crimped to terminals at both ends with housing
3	2U BACK ADAPTER TO Front GPU	NIL	771MM	12V power from BA 2U to GPUs (8 pin right angled connector)	13 A per contact (Total 13*4=52 A)	Molex	39012080	16 AWG wires crimped to terminals at both ends with housing
4	MAIN BOARD TO FRONT RISER CARD	NIL	757MM	Power to Riser cards from main board (12V,3.3V,3.3V AUX) (6 pin vertical connector)	13 A per contact	Molex	39012060	16 AWG wires crimped to terminals at both ends with housing
5	MAIN BOARD TO Rear RISER CARD	NIL	186MM	Power to Riser cards from main board (12V,3.3V,3.3V AUX) (6 pin vertical connector)	13 A per contact	Molex	39012060	16 AWG wires crimped to terminals at both ends with housing
6	MAIN BOARD TO FACIA PCB	573MM	573MM	Main board to fascia cable (16 pin vertical connector)	3A per contact	Molex	90143-0016	wires crimped to terminals at both ends with housing
7	MAIN BOARD TO FAN	346MM	375MM	Connection from main board to fans		Molex	510211000	Crimp terminal: 500588000
	FAN Models	For 1U:						Pre-crimped lead: 2149201211
			For 2U:					For 1U: Delta Model: GFC412DS-DU49 For 2U: Sanyo Denki Model no 9HV0612P1J001

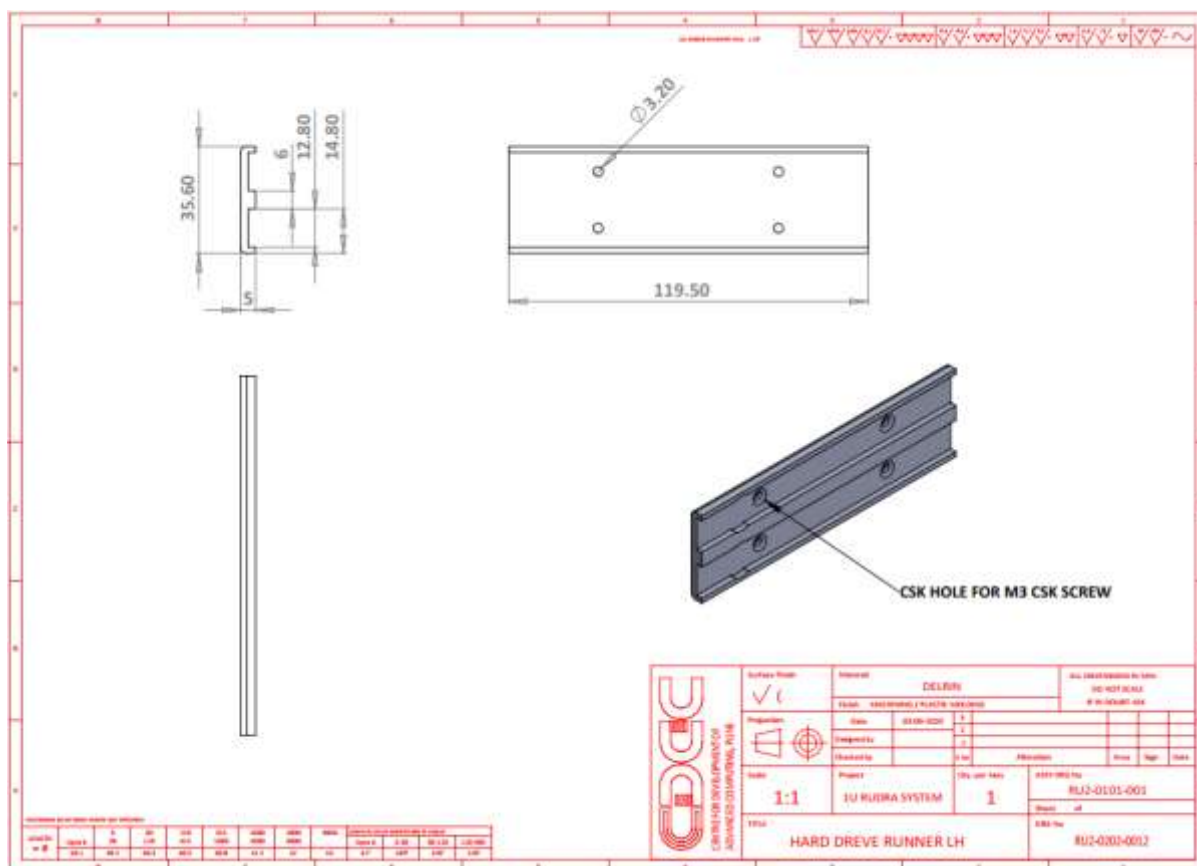


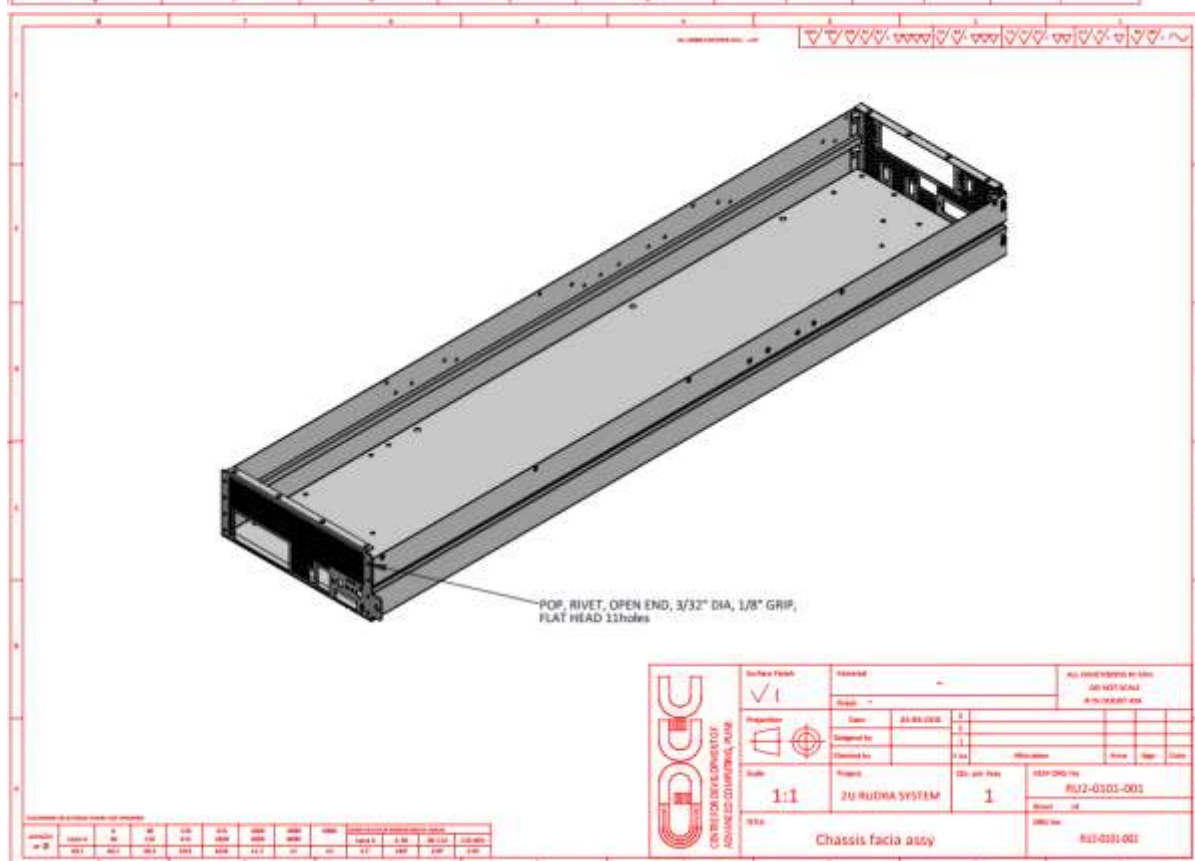


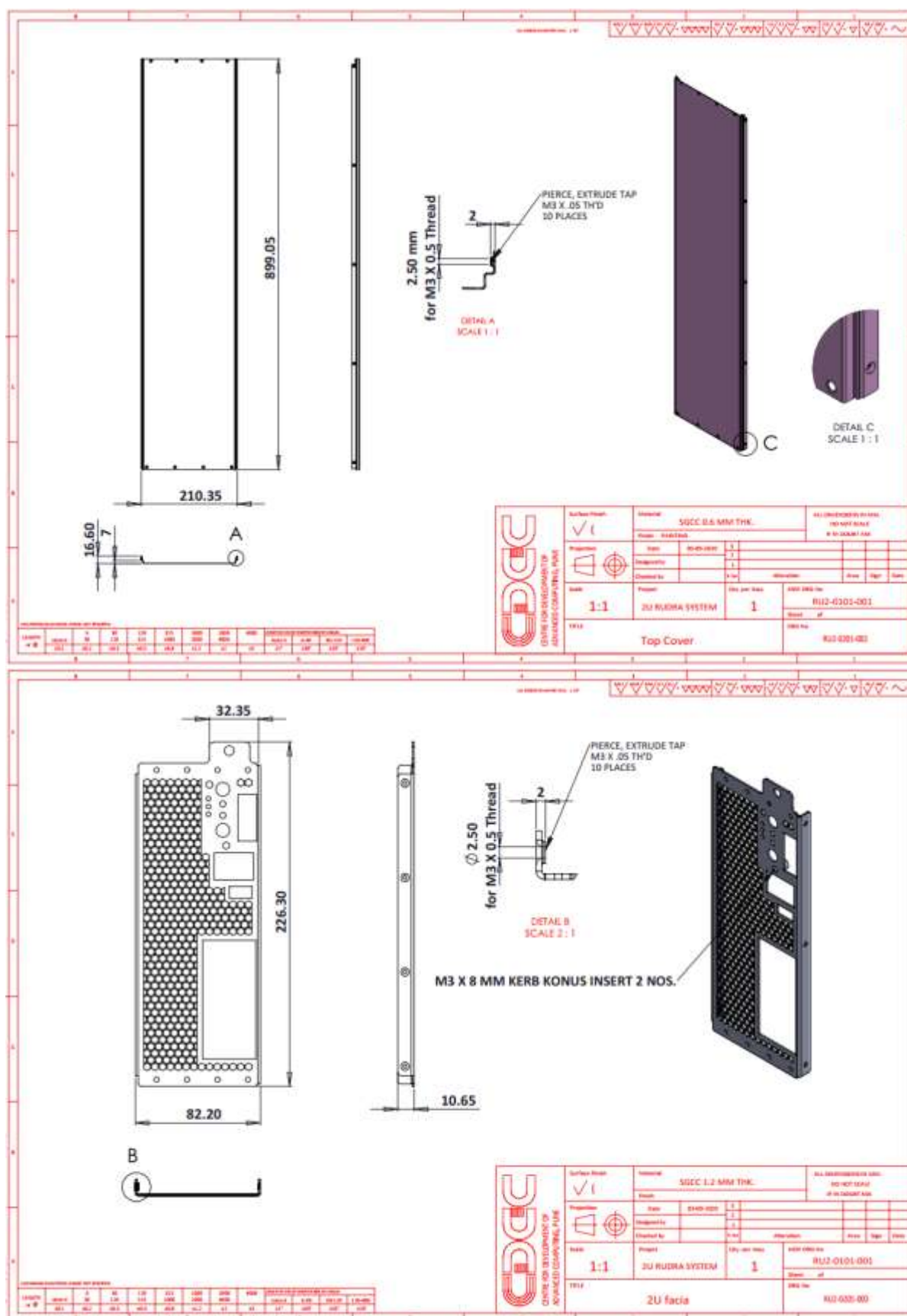


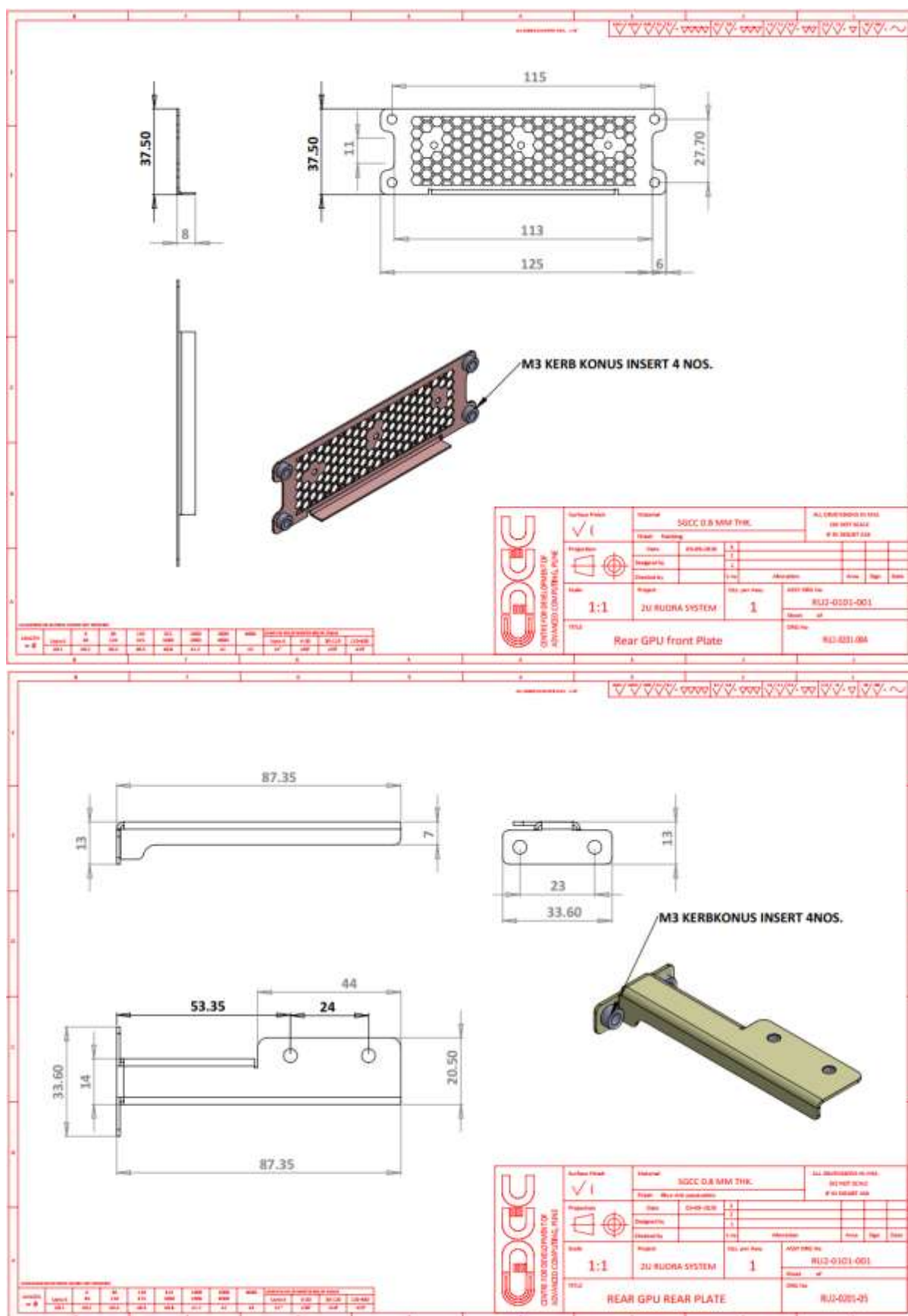


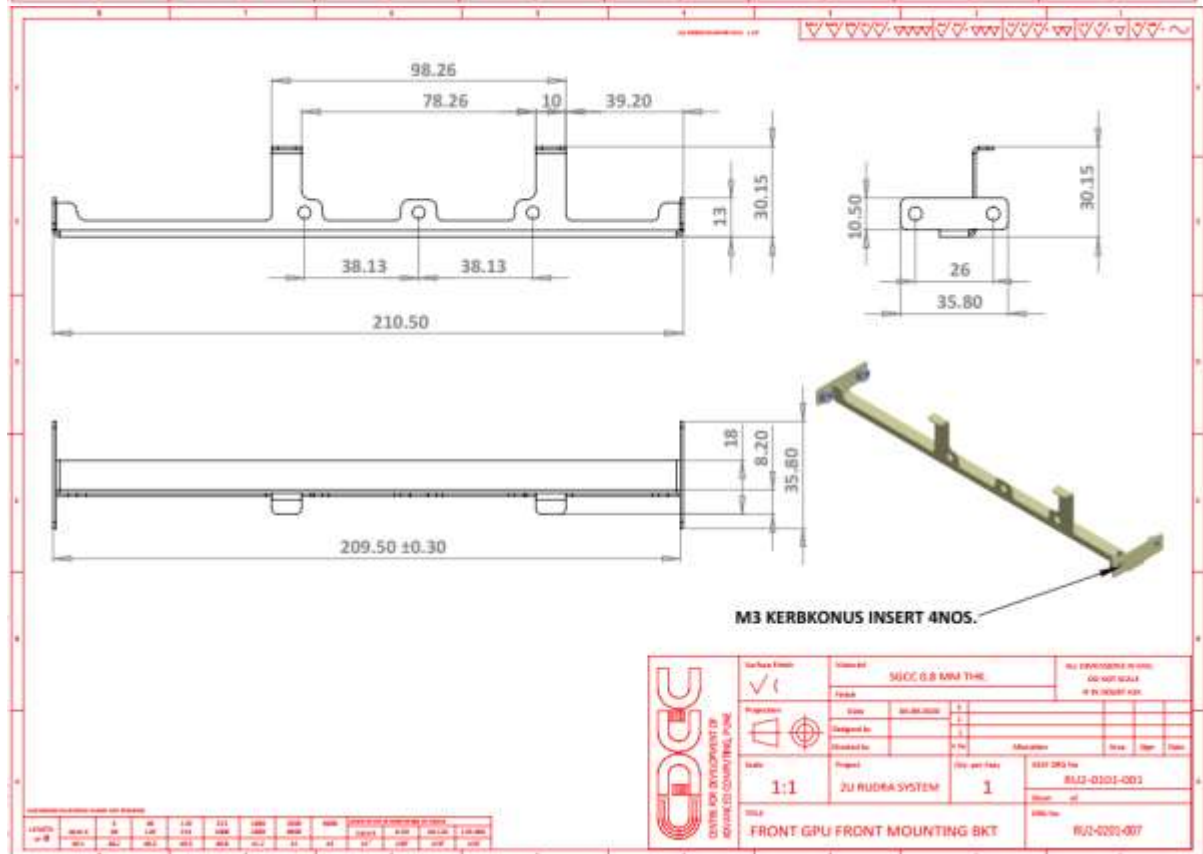
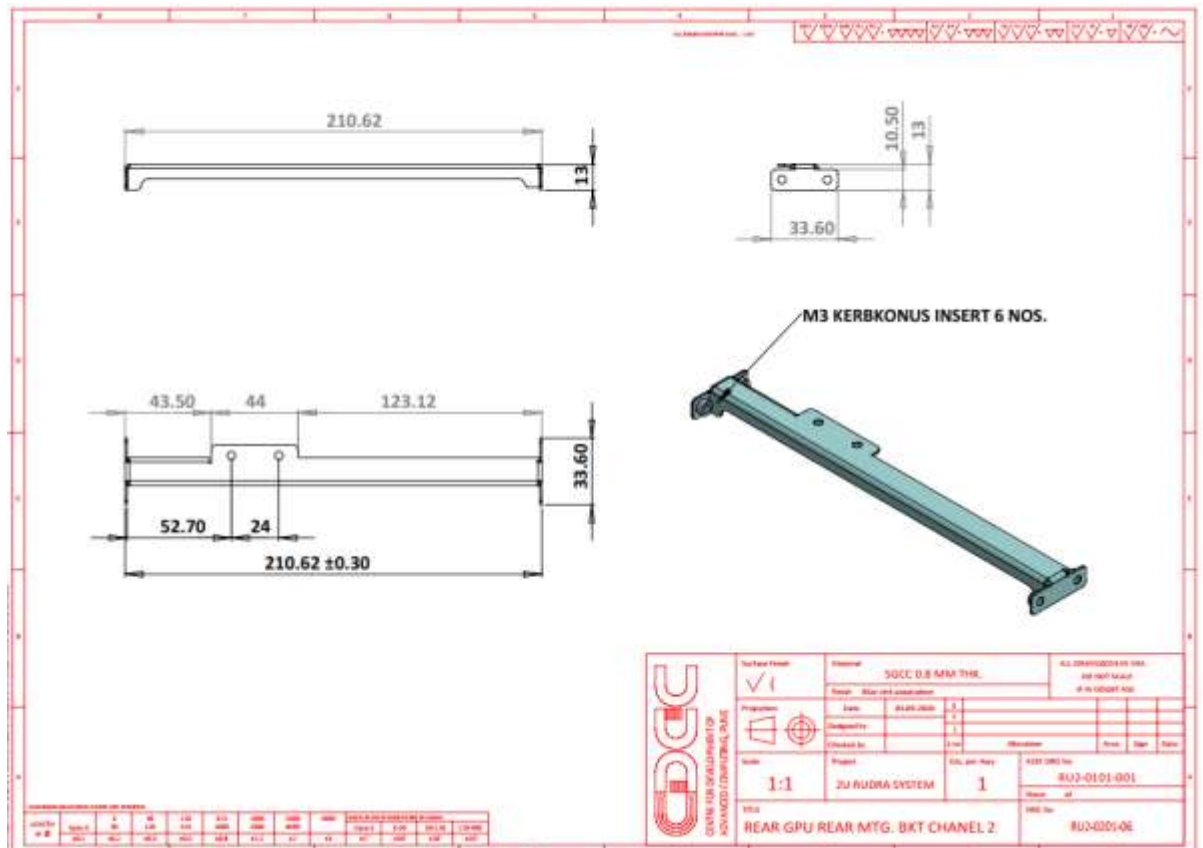


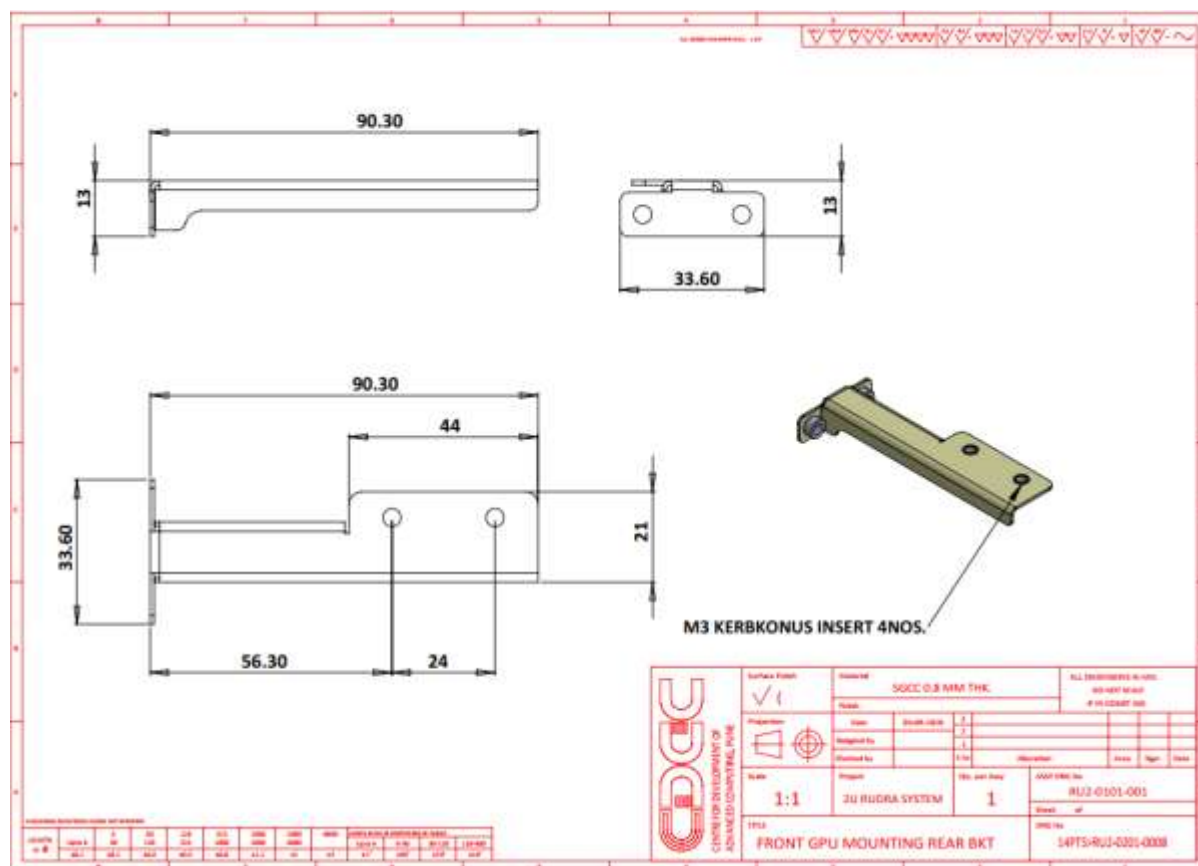


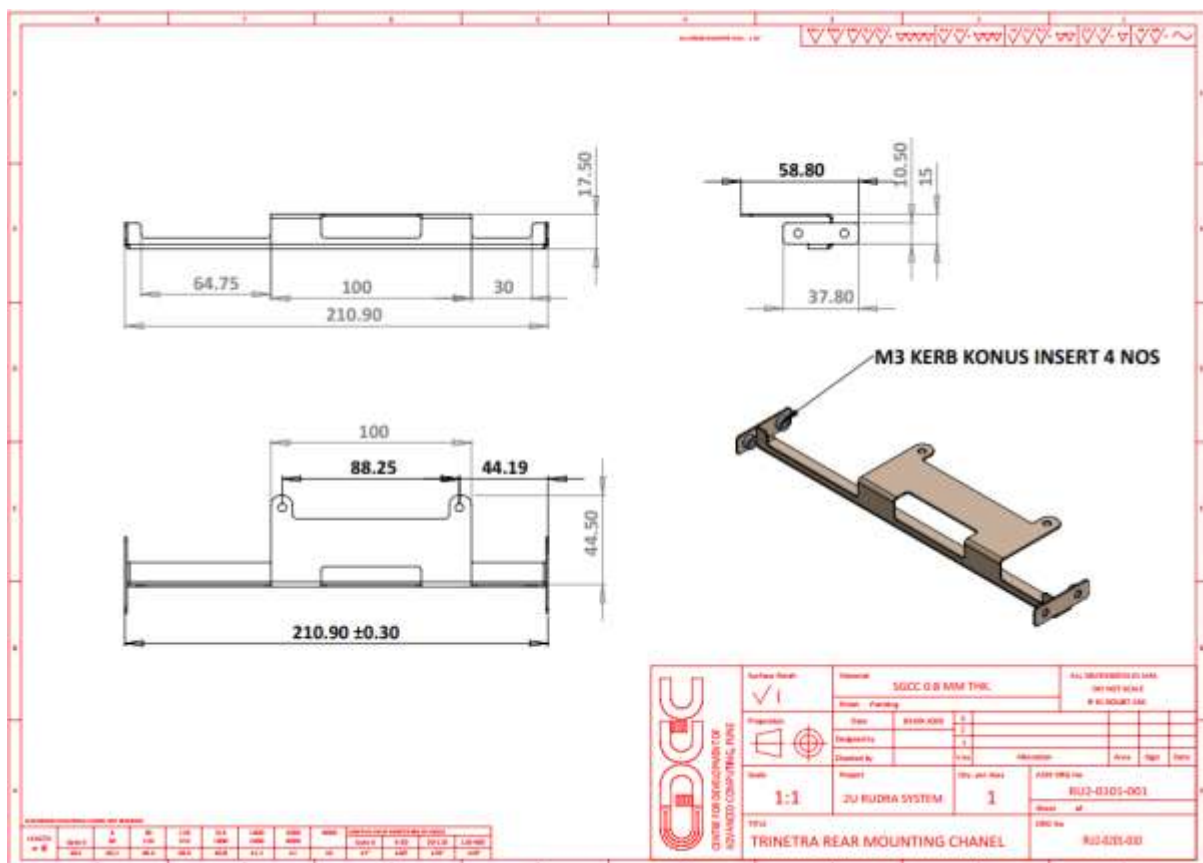
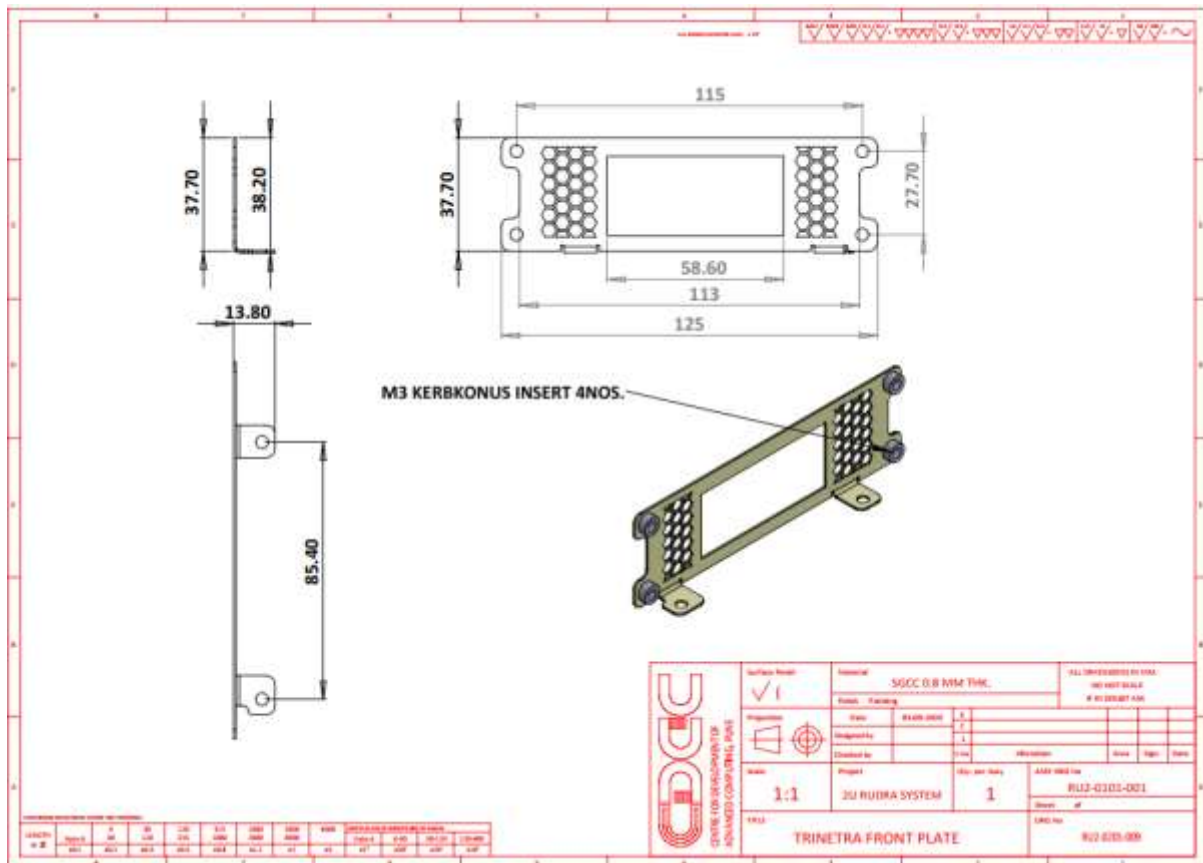


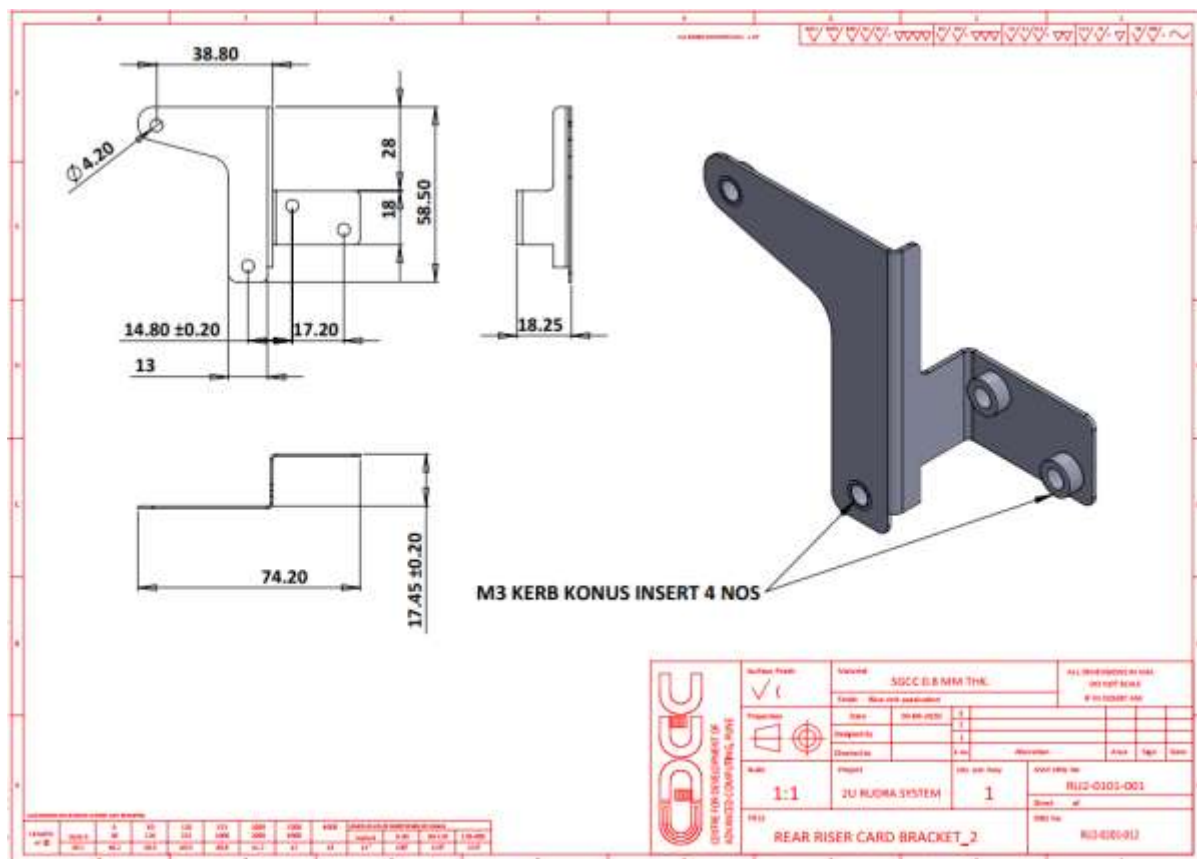
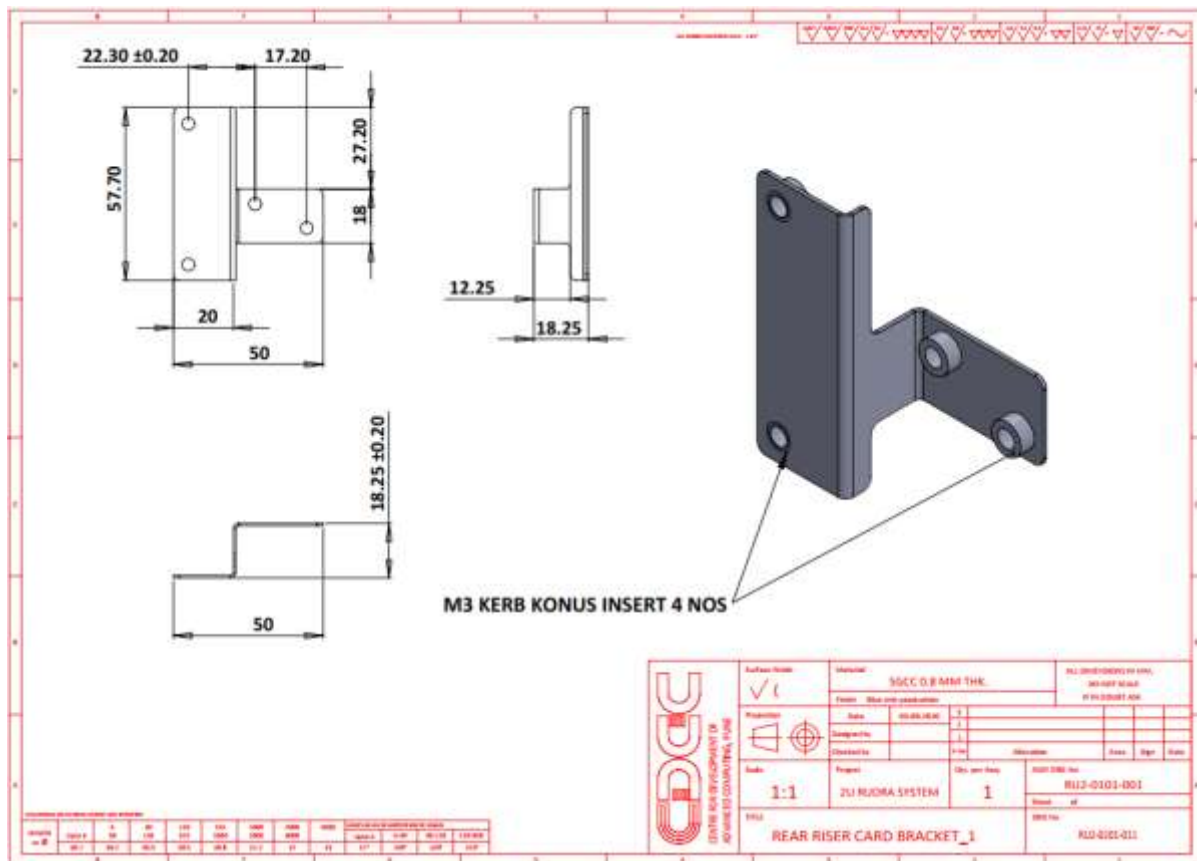


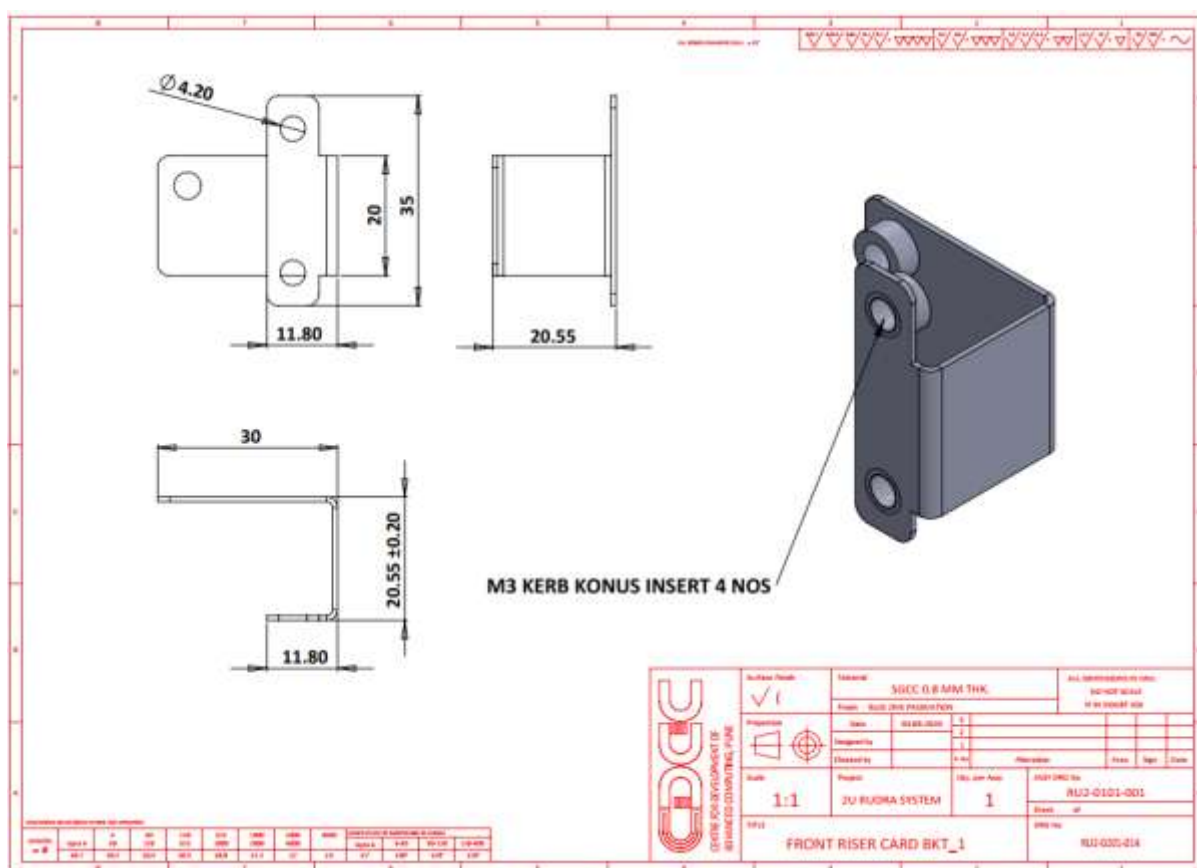


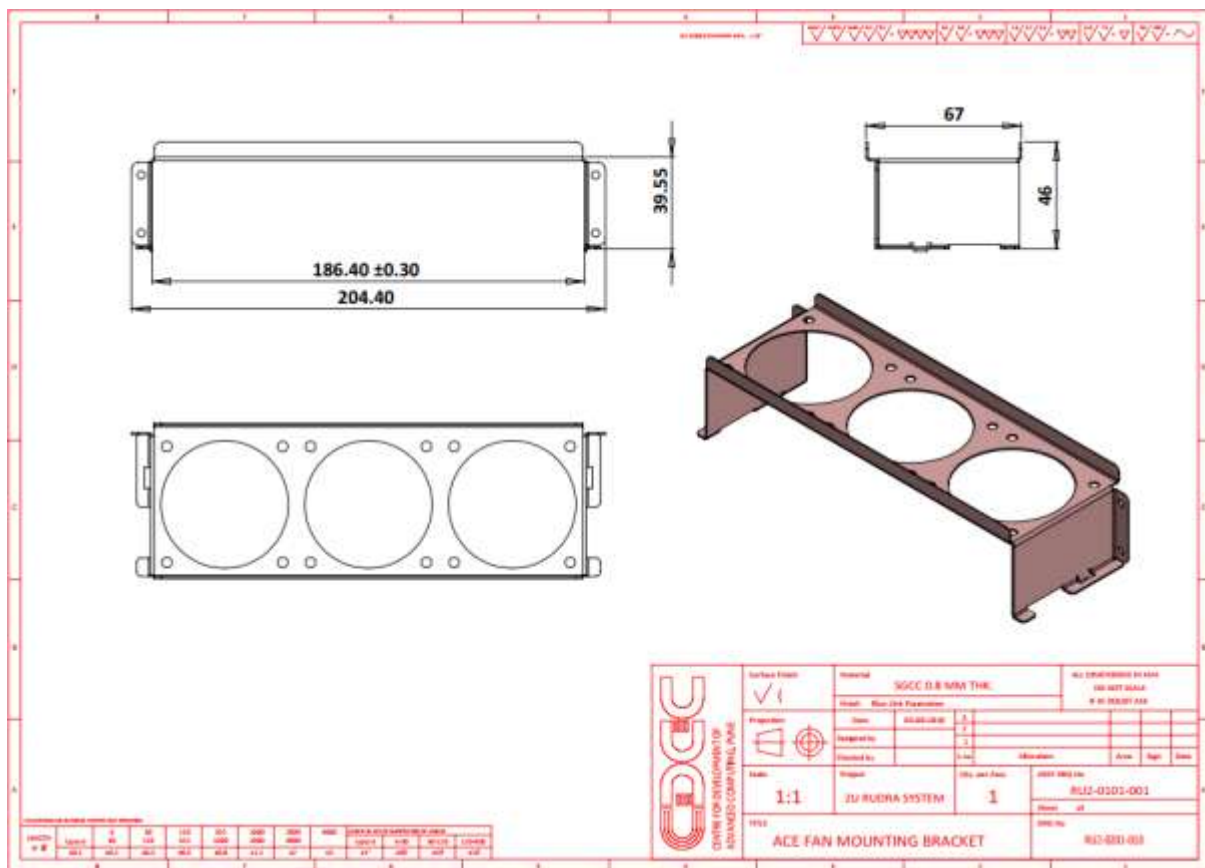
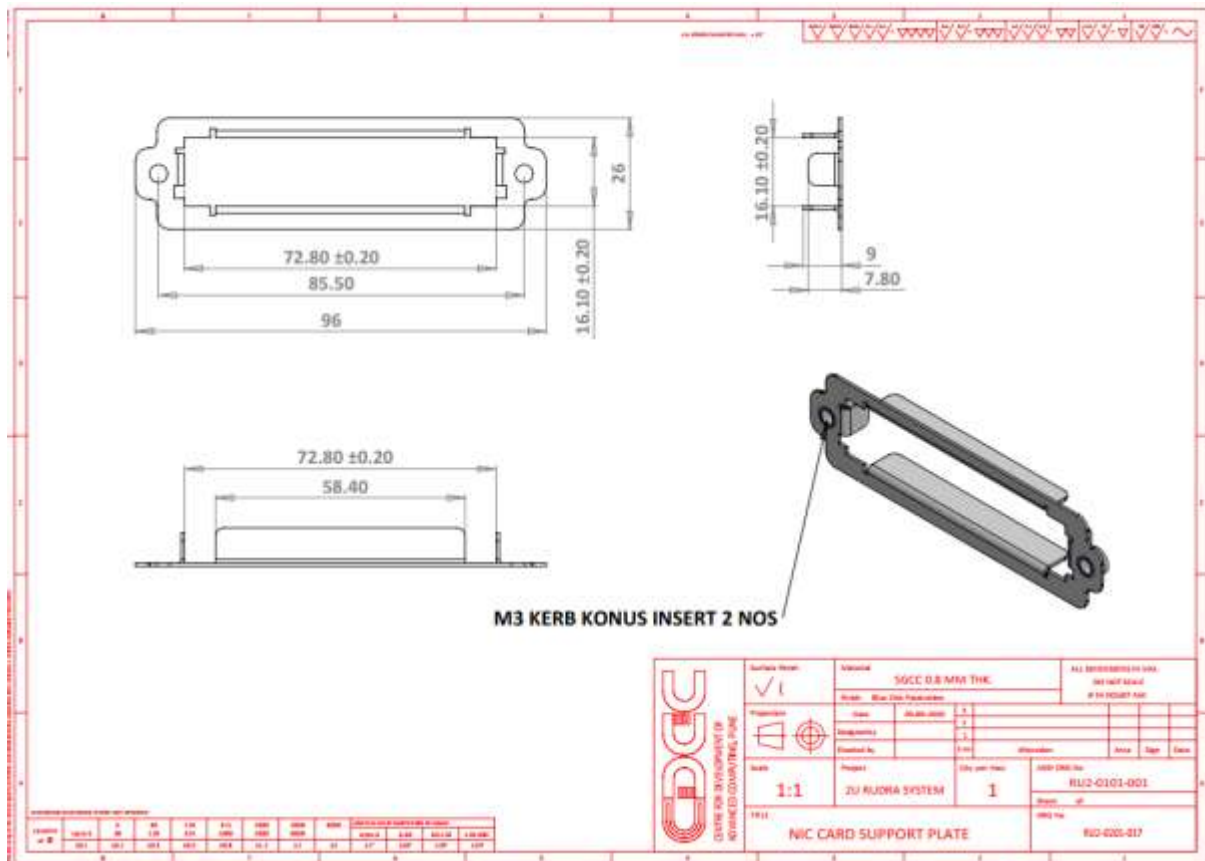


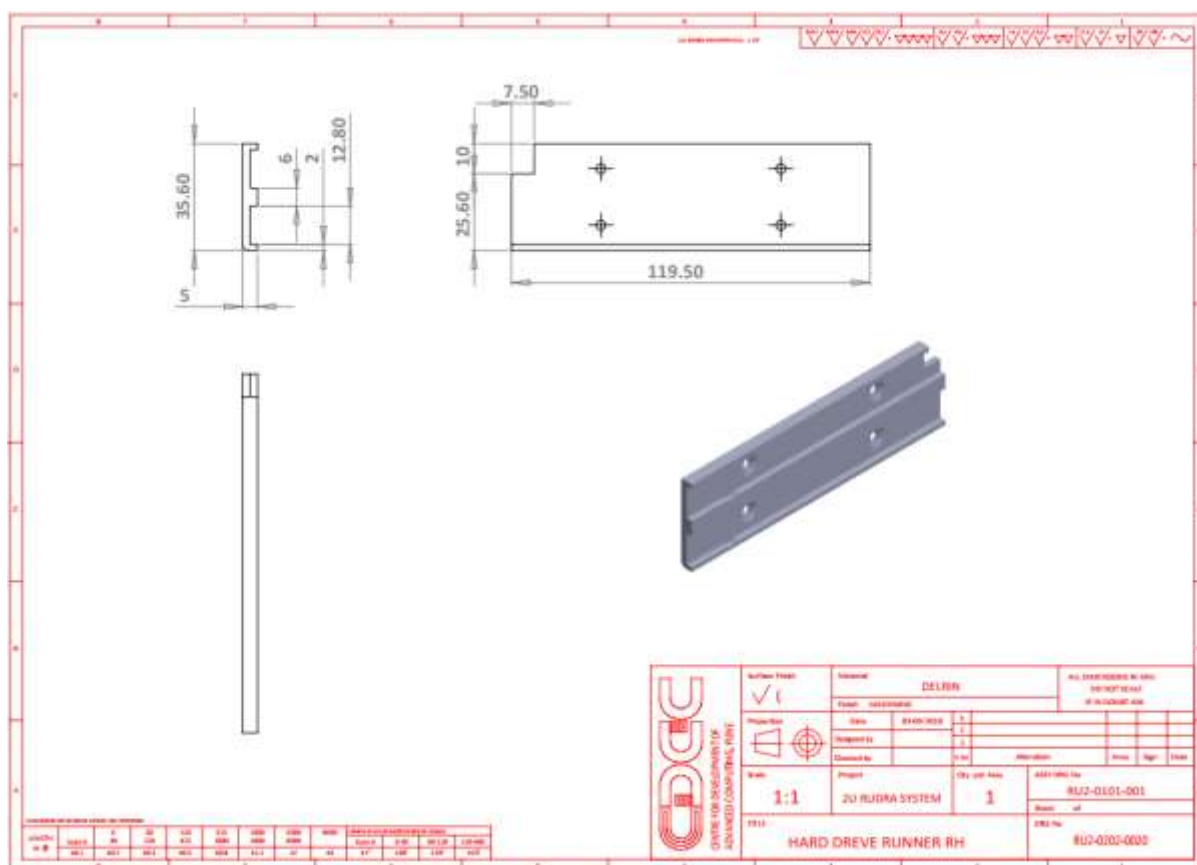
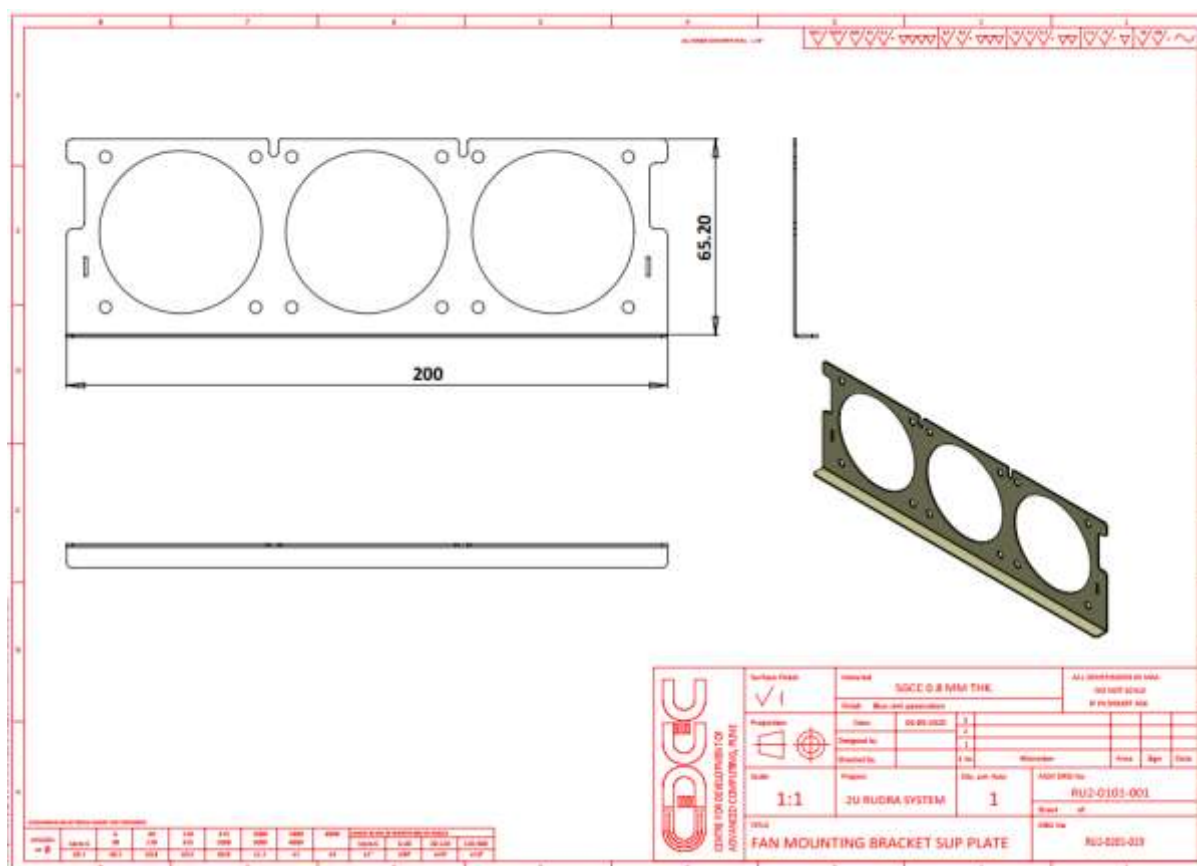


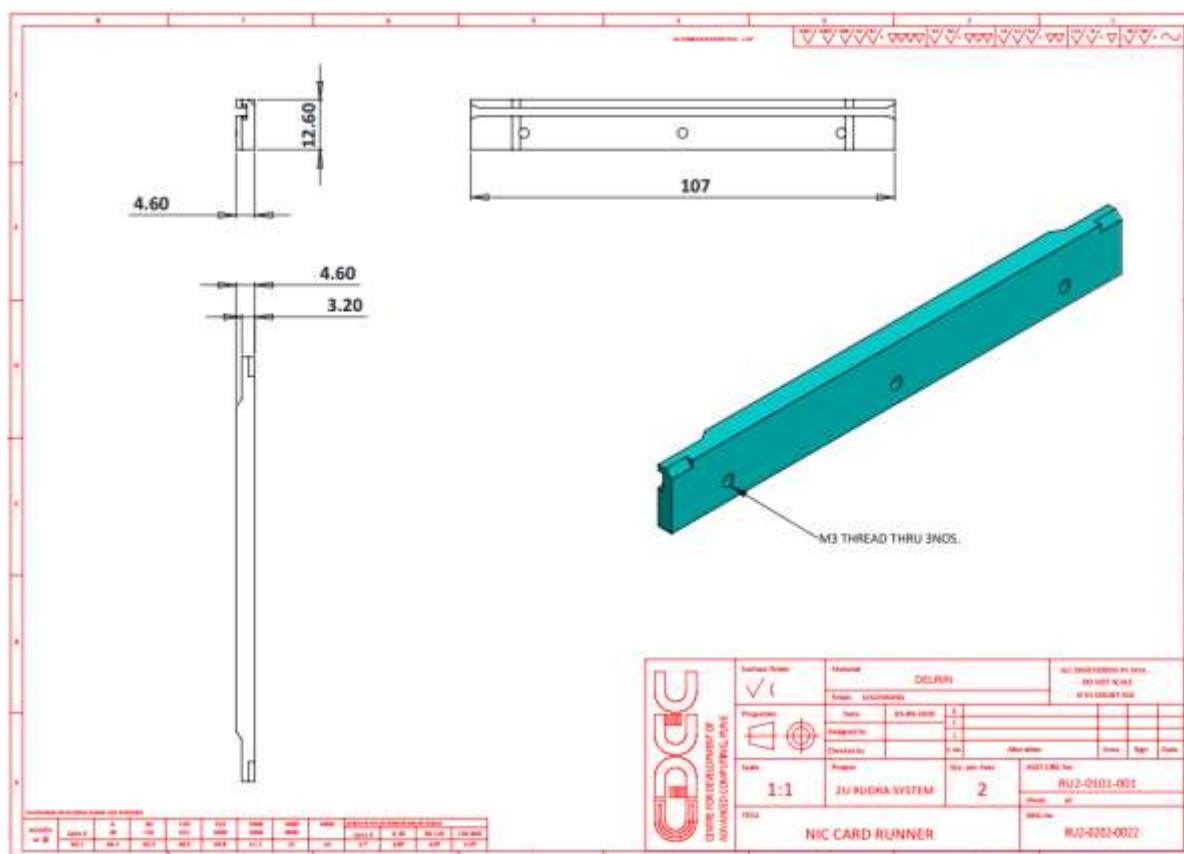
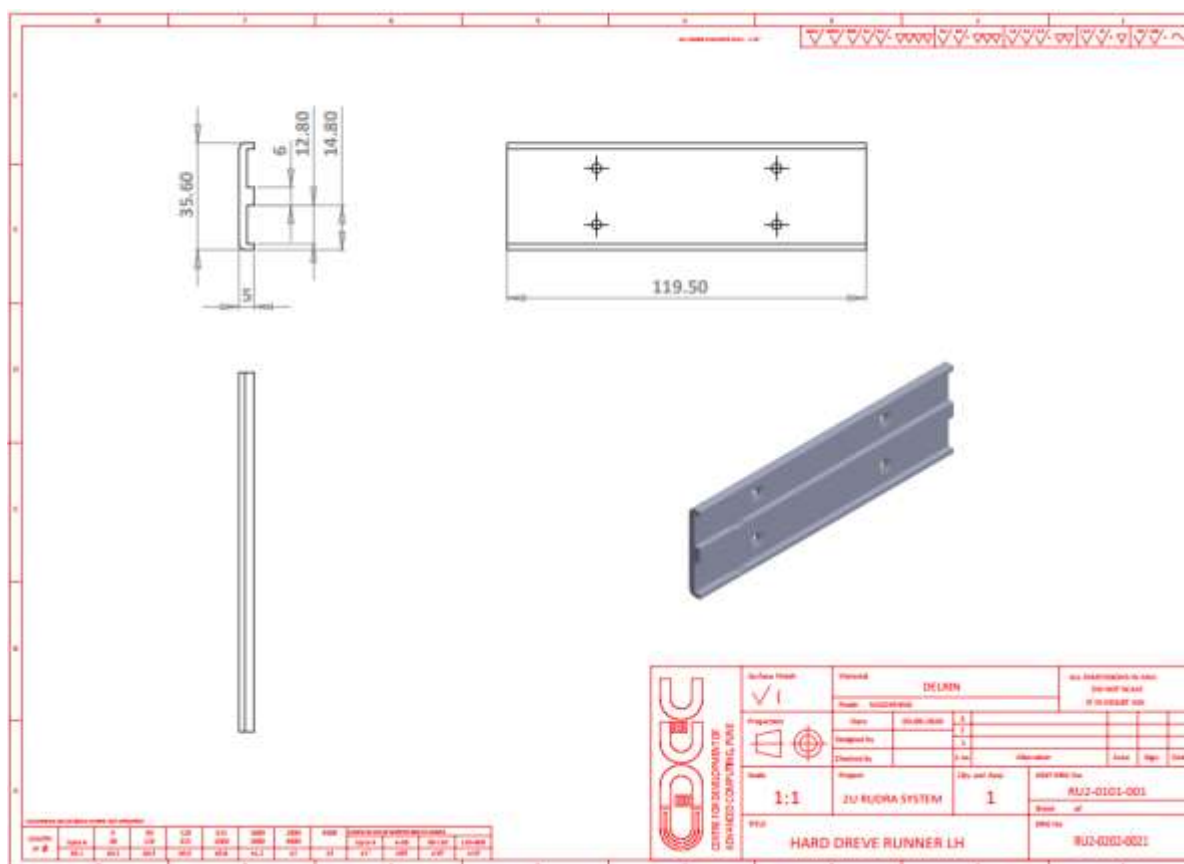














1U Rudra Chassis Bill of Material:

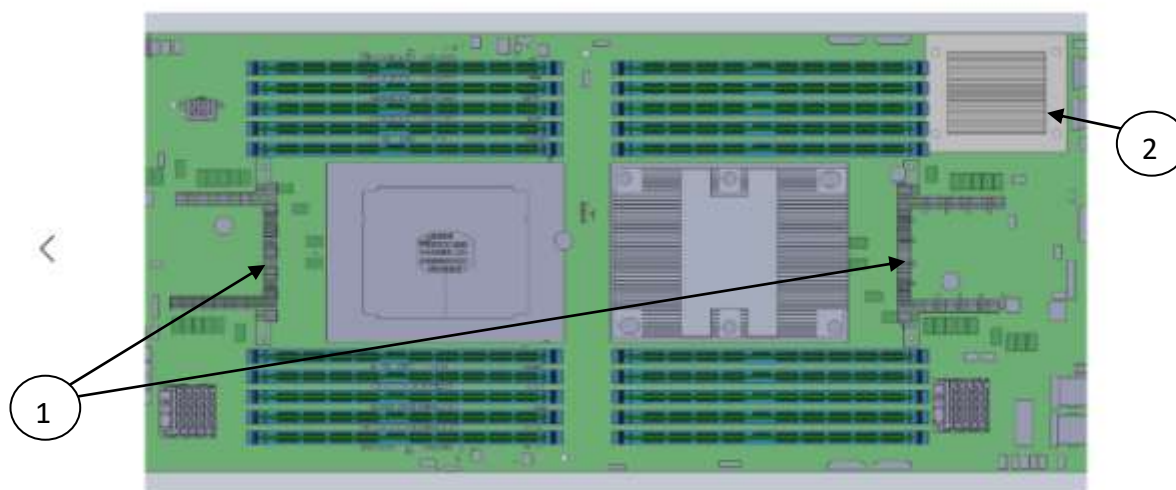
Product Name:	Rudra 1U Systems enclosure					
Revision:	0					
Release Date:	02-Sep-20					
S #	Drawing #	Drawing Name	Class	Material	Finish	Colour Qty./ ASSY.
1	RU1-0101-001	Rudra 1U System Enclosure Assembly	Assembly			1ASSY
2	RU1-0101-002	Chassis assembly	Assembly			
	RU1-0201-001	Chassis	Sheetmetal	SGCG 0.8 THK		1
	RU1-0101-003	Chassis Facia assembly	Assembly			
	RU1-0201-002	Top cover	Sheetmetal	SGCG 0.6 THK		1
	RU1-0201-003	Facia	Sheetmetal	SGCG 1.2 THK		1
	RU1-0201-004	Fan mounting bracket	Sheetmetal	SGCG 0.8 THK		1
	RU1-0201-005	Fan mounting bracket support	Sheetmetal	SGCG 0.8 THK		1
	RU1-0201-006	Sata card chassis	Sheetmetal	SGCG 0.8 THK		1
	RU1-0201-007	Sata card support plate	Sheetmetal	SGCG 0.8 THK		1
	RU1-0201-008	NIC card support bracket	Sheetmetal	SGCG 0.8 THK		1
	RU1-0201-009	NIC card rail support	Sheetmetal	SGCG 0.8 THK		2
	RU1-0201-010	NIC card rail	Machining/Plastic Molding	Delrin		2
	RU1-0201-011	Flash drive runner RH	Machining/Plastic Molding	Delrin		1
	RU1-0201-012	Flash drive runner LH	Machining/Plastic Molding	Delrin		1

2U Rudra Chassis Bill of Material:

Product Name:	Rudra 2U Systems enclosure					
Revision:	0					
Release Date:	02-Sep-20					
S #	Drawing #	Drawing Name	Class	Material	Finish	Colour Qty./ ASSY.
1	RU2-0101-001	2U Rudra System Enc. Part Assembly	Assembly			1ASSY
2	RU2-0201-001	Chassis	Sheetmetal	SGCG 0.8 THK		1
3	RU2-0101-002	Chassis facia assembly	Assembly			
4	RU2-0201-002	Top cover	Sheetmetal	SGCG 0.6 THK		1
5	RU2-0201-003	Facia	Sheetmetal	SGCG 1.2 THK		1
6	RU2-0201-004	Rear GPU front plate	Sheetmetal	SGCG 0.8 THK		1
7	RU2-0201-005	Rear GPU rear plate	Sheetmetal	SGCG 0.8 THK		1
8	RU2-0201-006	Rear GPU rear mtg bkt channel 2	Sheetmetal	SGCG 0.8 THK		1
9	RU2-0201-007	Front GPU front mtg bkt	Sheetmetal	SGCG 0.8 THK		1
10	RU2-0201-008	Front GPU mounting rear bkt	Sheetmetal	SGCG 0.8 THK		1
11	RU2-0201-009	Trineta front plate	Sheetmetal	SGCG 0.8 THK		1
12	RU2-0201-010	Trineta rear mounting channel	Sheetmetal	SGCG 0.8 THK		1
13	RU2-0201-011	Rear riser card bracket_1	Sheetmetal	SGCG 0.8 THK		1
14	RU2-0201-012	Rear riser card bracket_2	Sheetmetal	SGCG 0.8 THK		1
15	RU2-0201-013	GPU L bracket	Sheetmetal	SGCG 0.8 THK		2
16	RU2-0201-014	Front riser card bracket_1	Sheetmetal	SGCG 0.8 THK		1
17	RU2-0201-015	Front riser card bracket_2	Sheetmetal	SGCG 0.8 THK		1
18	RU2-0201-016	2U back adapter card bracket	Sheetmetal	SGCG 0.8 THK		1
19	RU2-0202-017	NIC card support plate	Sheetmetal	SGCG 0.8 THK		1
20	RU2-0202-018	ACE fan mounting bracket	Sheetmetal	SGCG 0.8 THK		1
21	RU2-0202-019	Fan mounting bracket support plate	Sheetmetal	SGCG 0.8 THK		1
22	RU2-0202-020	Hard drive runner RH	Machining/Plastic Molding	Delrin		1
23	RU2-0202-021	Hard drive runner LH	Machining/Plastic Molding	Delrin		1
24	RU2-0202-022	NIC card runner	Machining/Plastic Molding	Delrin		2

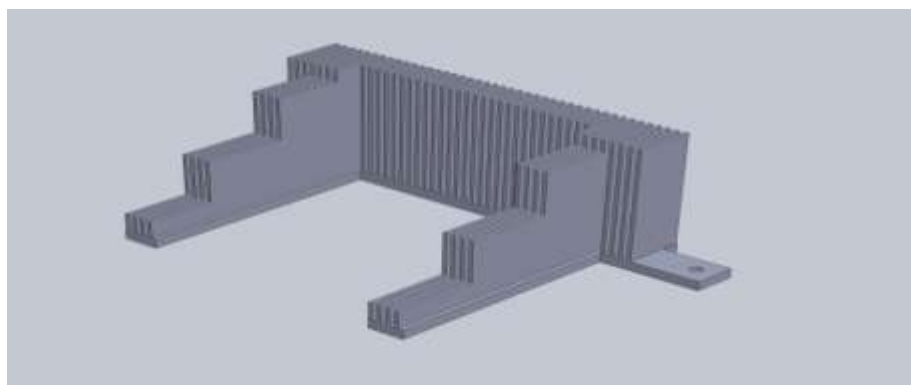
ANNEXURE I – Drawing Details for Heatsinks

Positions for Heatsinks

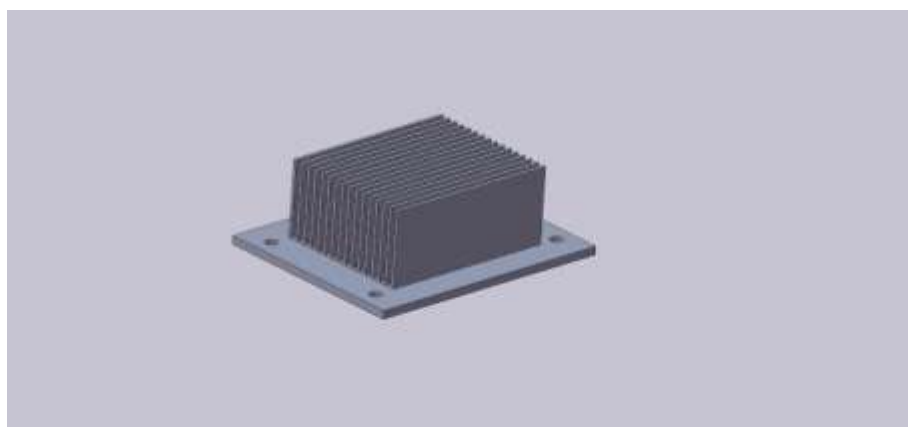


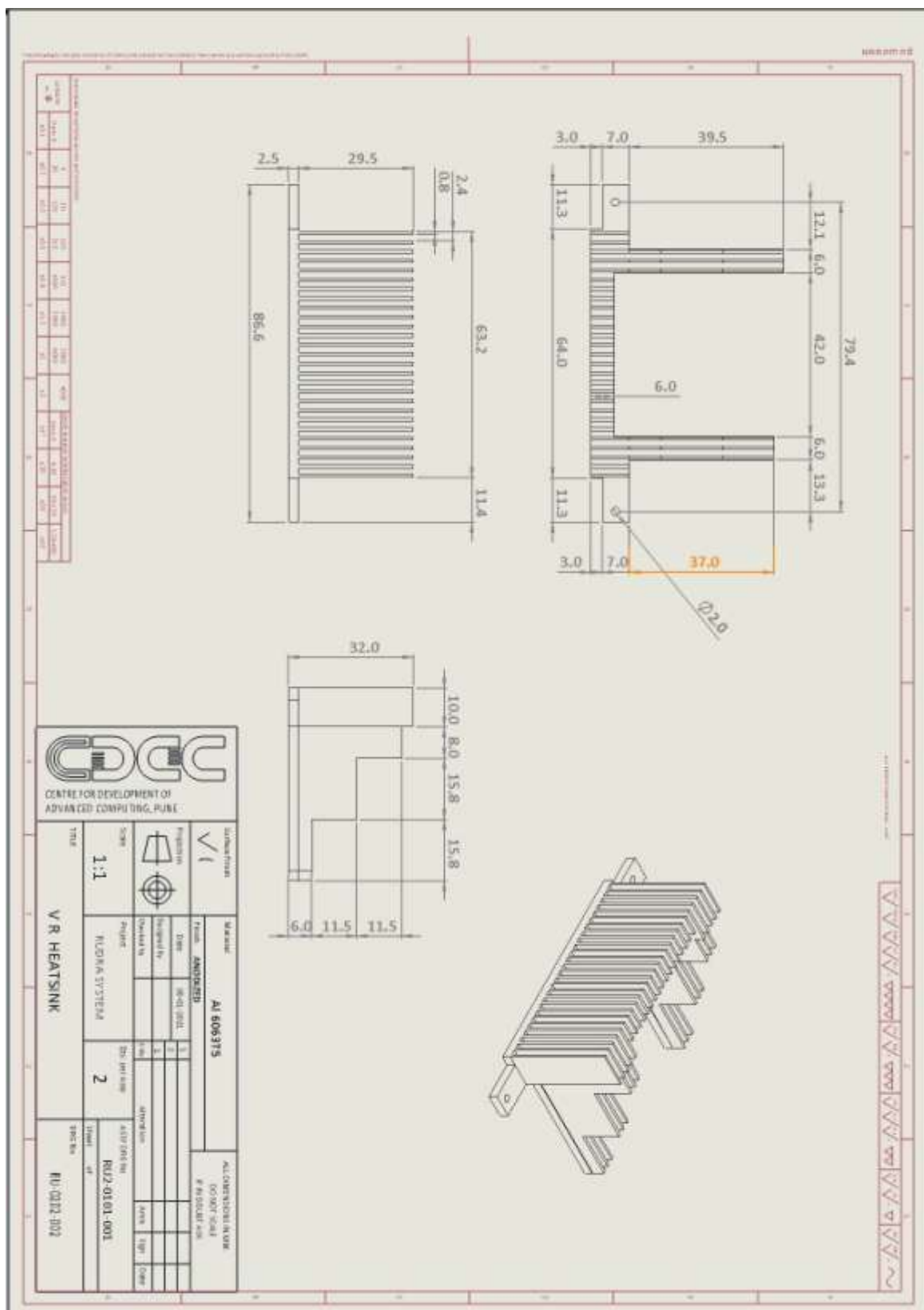
Individual Heatsink drawings

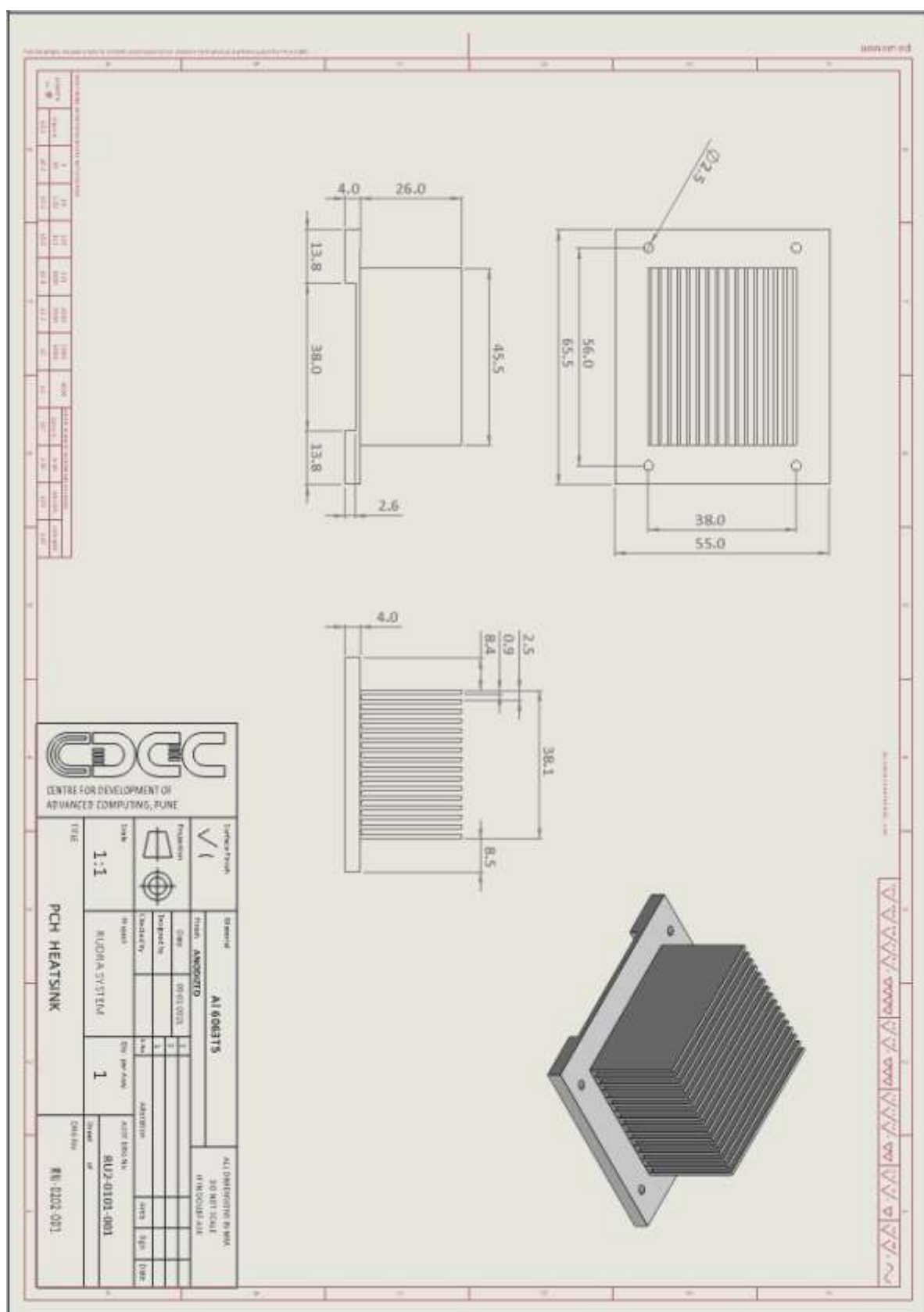
1: 2 nos for each Enclosure



2: 1 no for each Enclosure









ANNEXURE J – NDA

NON-DISCLOSURE AGREEMENT

This Non-Disclosure Agreement is made and executed on _____ day of _____ 2019, at _____.

By and Between

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING, a Scientific Society of Ministry of Electronics and Information Technology, Government of India, registered under the Societies Registration Act 1860 and the Bombay Public Trusts Act 1950 and having its registered Office at Innovation Park, Panchavati, Pashan, Pune 411 008, hereinafter referred as “C-DAC” (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its administrators, successors and assigns)....**PARTY OF THE FIRST PART**

AND

_____, a Company/ Partnership Firm/ a Society, Registered under _____, having its Registered Office at _____ hereinafter referred to as the “_____” (which expression, shall unless repugnant to the context or meaning thereof shall mean and include his administrators and assigns)....**PARTY OF THE SECOND PART**

Hereinafter collectively referred as “Parties”, and individually as the “Party” as the case may be.

WHEREAS:

- A. C-DAC has after being set up as India’s national initiative for the development of indigenous super computing technology, diversified into other advanced areas of information technology, more particularly in multilingual computing technology, network security, geomatics, artificial intelligence, data ware housing, data mining, real times system and has offered software solutions for sector of health, power, telecom, financial services e-governance for various government agencies and organizations.
- B. “_____” is engaged in _____
- C. Parties are in discussion whereby one Party (“**Disclosing Party**”) would be sharing Confidential Information with the other Party (“**Receiving Party**”) with respect to possible business transaction (“**Proposed Activity**”)

NOW THEREFORE, in consideration of the mutual understandings and obligations set forth herein, the Parties agree as follows:

1. The Receiving Party acknowledges and confirms the confidential and sensitive nature of all information, data, documents and material relating to the purpose and objectives of the Proposed Activity and/or of the assets and operations of Disclosing Party’s and/or its affiliates’ businesses, undertakings and establishments: (i) that



may be disclosed or made available to the Receiving Party by Disclosing Party or its directors, officers, employees, representatives, advisors, consultants; (ii) the Receiving Party may gain or gather from any source identified by the Disclosing Party during the course of the Permitted Activity; (all the information referred to above is hereinafter referred to as the "Confidential Information").

2. Without limiting the generality of the foregoing, Confidential Information (whether made available in written, verbal, machine recognizable, graphic, sample or electronic form) is understood to include without limitation, non-public commercial, technical or financial information, trade secrets, know-how, patent and ancillary information and other proprietary information, content, audios, videos, audio-visual content (including any conversions, transcodes, etc.), files, articles, literature, writings, documents, manuals, images, illustrations, drawings, photographs, sketches, models, design or performance specifications, analysis, compilations, studies, research, reviews, investigations, notes, business plans, business and accounting practices and records, business methods, market research, database, business tools, customer/client lists and data, enabling software, applications, source codes, object codes, websites, domain names, business processes, computer programs, processes, procedures, presentations, discussions, dialogues, scripts, creatives, media (planning and buying) plans, rates, ideas, concepts, raw and final content, design, technology, marketing, commercial knowledge, personnel/employee information, third party confidential information, information communicated or obtained through discussion, documents, negotiation and/or meeting between the Parties, any information or materials to which it gains access, directly and/or indirectly regardless of the form, format, mode or media.
3. Provided, however, that Confidential Information shall not include information which: (i) is, or becomes, publicly known, otherwise than through a wrongful act of the Receiving Party or its representatives; (ii) is in the possession of the Receiving Party prior to receipt from Disclosing Party or its representatives without an obligation of confidentiality; (iii) is independently developed by the Receiving Party, provided that it was not derived from the Confidential Information; (iv) is approved in writing by Disclosing Party for disclosure; v) is received by the Receiving party from a source not bound to the Disclosing Party or any of its affiliate by obligations of confidentiality.
4. The Receiving Party shall not disclose the Confidential Information to any other person save and except with the express consent in writing given by Disclosing Party except that the Receiving Party might share the Confidential Information to its employees/third parties providing support only for the Proposed Activity on a need to know basis. The Receiving Party, however, may disclose such part of the Confidential Information where: (i) such disclosure is in response to a valid order of a court or any other governmental body having jurisdiction over this Agreement provided that the Receiving Party has given prior written notice to Disclosing Party forthwith it came to learn about such order, if permitted by law; or (ii) such disclosure is otherwise required by law, provided that the Receiving Party has given prior written notice to Disclosing Party, if permitted by law, forthwith it came to



- learn about such disclosure requirement or the demand for such disclosure and made all reasonable efforts to protect the Confidential Information in connection with such disclosure.
5. The Receiving Party shall with reference to the Confidential Information take all actions as may be necessary to: (i) maintain the confidentiality thereof; (ii) limit its use of such Confidential Information solely for the purpose of the Proposed Activity; (iii) avoid disclosure even to any of its employees that are not associated with the Proposed Activity except as stated in this agreement; (iv) avoid any dissemination or publication by any of its employees/representatives associated with the Proposed Activity; and (v) safeguard the Confidential Information from being accessed, modified and/or exploited in any manner by any unauthorized person (vi) if the Proposed Activity consists of creation of any product using the Confidential Information which is to be shared with any other person, then such product shall be shared only after prior written approval of the Disclosing Party. Such actions shall include but not be limited to maintaining appropriate non-disclosure undertakings from its employees, third party service provider/vendor providing support directly or indirectly engaged in the Proposed Activity.
 6. Receiving Party may use Disclosing Party's Confidential Information in combination with other data for statistical or analytical purposes provided that such Confidential Information shall not be shared with any third party without prior written consent of the Disclosing Party.
 7. In no event shall Parties be liable for consequential, special, incidental or punitive loss, damage or expense (including without limitation, lost profits, opportunity costs, etc.) even if the Party has been advised of their possible existence, if the loss, damage or expenses etc. is without mens rea and beyond reasonable control.
 8. No license from either Party hereto is hereby granted or implied, by estoppels or otherwise, under any trademarks, copyrights, patents (existing or future) or for any use of Confidential Information except such use which is expressly contemplated by this Agreement.
 9. Each Disclosure warrants that it has right to disclose the Confidential Information.
 10. Nothing in this Agreement is intended to grant any rights to either party under any patents, copyrights, trademarks and designs of either Party nor shall this Agreement grant Receiving Party any right in or to the Confidential Information except as expressly set forth herein. No license grant or intellectual property rights are provided under this Agreement and all intellectual property rights are owned by the Disclosing Party.
 11. The Receiving Party and its representatives acknowledge that neither Disclosing Party nor any of its representatives make any express or implied representation or warranty as to the accuracy or completeness of the information supplied. In addition, neither Disclosing Party nor any of its representatives shall have any liability to the Receiving Party or any other person in connection with the use of the information.
 12. The Receiving Party hereby agrees to indemnify and hold harmless Disclosing Party, its parent, affiliates, subsidiaries, associates and group entities and their respective directors, officers, employees and representatives from and against any direct



damage, loss, cost or liability (including all expenses and costs of enforcing rights under the Agreement) arising out of or resulting from: (i) any use or disclosure by the Receiving Party of Confidential Information in violation of the Agreement; (ii) any leakage of the Confidential Information at the end of the Receiving Party or its employees and/or its representatives; and/or (iii) breach or violation of any of the other covenants herein.

13. The Receiving Party will, within reasonable time upon the receipt of written request from the Disclosing Party, deliver to Disclosing Party, the documents comprising the Confidential Information or any part thereof and will destroy any copies, notes, or extracts thereof, retaining only one copy for archival purpose thereof, except that any portion of the Confidential Information that consists of analysis and any written Confidential Information not requested for destruction and returned, shall be retained and kept by the Receiving Party subject to the terms of this Agreement, or upon Disclosing Party's written request be destroyed.
14. The obligation to maintain confidentiality of Disclosing Party's Confidential Information shall survive the termination of this Agreement for a period of ____ year. The agreements, obligations, warranties and undertakings on the Receiving Party's part set out in this Agreement will continue in full force for a period of ____ year from the Execution Date of this Agreement.
15. The provisions of this Agreement are necessary for the protection of the business and goodwill of Disclosing Party and are considered by the Receiving Party to be reasonable for such purpose. The Receiving Party hereby acknowledges that breach of this Agreement, unauthorized disclosure or use of Confidential Information will cause irreparable harm, significant injury and substantial damages to Disclosing Party that may be difficult to ascertain. Accordingly, the Receiving Party agrees that in addition to other remedies that may be available to Disclosing Party under law and/or in equity and/or under this Agreement, Disclosing Party shall have the right to seek and obtain immediate injunctive relief to enforce an obligation under this Agreement.
16. The Receiving Party hereby represents, warrants and undertakes that in performing its obligations or exercising its rights etc. under this Agreement, the Receiving Party and its employees shall abide with all applicable laws.
17. This Agreement shall be governed by the laws of India. Any dispute, difference or claim related to or arising under, out of or in connection with this Agreement shall be first place, in good faith, resolved amicably.
18. If the dispute is not resolved within 30 days after such dispute arises, the dispute shall be referred to the Arbitrator and dealt with as per provisions of Arbitration and Conciliation Act, 1996 including any rules, amendments, revisions or ordinances issued thereunder. The Arbitration proceeding shall be in English language and venue of the Arbitration shall be decided as per the convenience of the parties. The decision of the Arbitrator shall be final and binding on both the parties. The dispute shall be resolved by the Court where the cause of action arises, if the same is beyond the ambit of Arbitration.
19. The obligations and duties imposed by this Agreement regarding Confidential Information may be enforced by the Discloser of such Confidential information



against any and all recipients of such Confidential Information. The receiving Party is liable and responsible for breach of the terms of this Agreement by any of its Affiliates, employees and representatives.

In witness thereof this Non-Disclosure Agreement is Signed, sealed and delivered under the hands of the authorized representatives of both the parties hereto on the date first written herein above.

For and on behalf of C-DAC,

For and on behalf of _____

Authorized Signatory

Authorized Signatory

Name

Name

Designation

Designation

Date

Date

WITNESSES

Signature

Signature

Name

Name

Designation

Designation

(END OF DOCUMENT)