

**Government of India
Bhabha Atomic Research Centre
Facility for Electromagnetic Systems
Computational Analysis Division**

Ref: CAD/HEDM/WO/IND/22-23/05

Date: 26/05/2022

Sub: Notice inviting tender for "Fabrication, Machining and Supply of SS Posts, G10 Sheets, Radial Clamps, Nylon Supports and Aluminum rods with accessories."

(See attached scope of work).

1. General guidelines for submitting tender

- You shall send your offer in a **sealed envelope** indicating delivery period, price inclusive of taxes and other relevant information by speed post to:

Head,
Computational Analysis Division
Bhabha Atomic Research Center
Gandivanipalem village, Dossuru Panchayat
Atchutapuram Mandal, Visakhapatnam
Andhra Pradesh – 531011

(Kind attention: K.Raghavendra, SO/D)

- Quotation shall reach us on or before 05/06/22 by Speed Post Only.
- On top left corner of the envelope please indicate
Quotation For – "Fabrication, Machining and Supply of SS Posts, G10 Sheets, Radial Clamps, Nylon Supports and Aluminum rods with accessories." Due Date: 05/06/2022
- Overwriting, scratching etc. must be avoided in the quotation. Rewriting the whole figure shall carry out any alteration in the figure. The authorized person from the firm shall countersign such figure.
- The **delivery period** mentioned in the quotation shall be **strictly adhered to**. If the contractor fails to supply and secure extension of delivery date before effecting delivery of the supply against the contract, acceptance of such item by the purchaser will in no way prejudice the right of the purchaser to levy liquidated damage nor will it be entitled to the contractor for payment of statutory levies that comes into force after the expiry of the delivery date.
- Minimum Guarantee / Warranty period of the material shall be one year.
- Supplier shall mention clearly the PAN / TAN no. on quotation.
- GST number shall be clearly mentioned on Quotation
- All the charges (material cost, fabrication cost for the components and transportation) and taxes shall be mentioned clearly.

2. Place of Delivery:

PEB-04, CAD
Bhabha Atomic Research Center
Gandivanipalem village, Dossuru Panchayat,
Atchutapuram Mandal, Visakhapatnam.
Andhra Pradesh – 531011.

3. Payment terms:

- a) Part payment / Advance or against delivery cannot be made.
- b) Payment will be made only after satisfactory completion of work and on production of (along with Delivery Challan):
 - i. Bill/Invoice containing Location of supply, separate tax components along with PAN and GSTN numbers
 - ii. Advance Stamped Receipt
 - iii. Bank Account No, Bank and Branch name with IFSC code.
 - iv. Undertaking stating that GST has been promptly deposited with the authorities
- c) It may be noted that:
 - i. Income tax @ 2% will be deducted from your bill.
 - ii. TDS (under GST) will be deducted as applicable from your bill of taxable goods and/or services, where the total value of such supply exceeds 2.50lakh.

4. CONFIDENTIALITY CLAUSE:

No party shall disclose any information to any third party, concerning the matters under this contract generally. In particular, any information identified as “Proprietary” in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.


This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.

“Restricted information” categories under section 18 of the Atomic Energy Act, 1962 and “Official Secrets” under section 5 of the official secrets act, 1923.

Any contravention of the above-mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.

Prohibition against use of BARC’s name without permission for publicity purposes:-The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC’s name for any publicity purpose through any public medial like press, radio, T.V. or Internet without the prior written approval of BARC.

5. You may contact us for any clarification before 03/06/2022


K. Raghavendra
SO/D, CAD

Scope of Work

Fabrication, Machining and Supply of SS Posts, G10 Sheets, Radial Clamps, Nylon Supports and Aluminum rods with accessories. (See the table and drawings)

Components and Quantity:

S No.	Components	Quantity
I	SS 304 Solid Posts	24 Sets
II	G10 Sheets	12 No's
III	SS Radial Clamps Type - I	24 No's
IV	SS Radial Clamps Type - II	24 No's
V	SS threaded connectors	24 No's
VI	Nylon Supports	06 No's
VII	Aluminum Rods with accessories	As per table provided below

Details of Work:

I. Fabrication of SS solid posts with Non magnetic SS 304 material: (See Figure:1)

- Each set of SS post should be welded of two plates (horizontal and vertical plates) exactly perpendicular to each other in (Vertical & Horizontal) direction. Horizontal plates surface shall be uniform and flatness less than 0.05mm.
- TIG weld shall be used and the weld should be all the sides of base (vertical part's).
Note: The holes mentioned on base plate should not get covered with the weld material. The area near the holes should be grinded after welding for resting M10 (middle slots) & M12 (corner slots) heads of the bolts to sit.
- Rough texture to be made on surface of 66mm slot on vertical plate.
- Inspection at On-Site:** The party may initially supply 01 Set of SS Post instead of 24 Sets (as per scope of work). Load test and measurement tests will be done at our lab facility to check whether the fabricated piece is meeting our requirements or not.

Measurement tests:

Both the horizontal base plate and vertical top plate will be tested. Flatness of base plate & vertical plate should be $< 0.05\text{mm}$. Perpendicularity of vertical plate when base plate is held tightly against surface table, vertical part must be at $\pi/2$ radians with a deviation of ± 0.002 radian.

If the fabricated SS Post found satisfactory the party may continue with the supply of remaining 23 Sets of Posts as mentioned in the table above. If the SS Posts fail in the tests, we may either intervene for modifications in fabrication techniques or cancel the order in its entirety. No payment will be made in the latter case. The decision will be at the discretion of the indenter, based on performance in the tests.

II. Machining of G10 Sheets: (See Figure:2)

- G10 sheet is a composite material with high pressure fiberglass laminates made with multiple layers of 7628 fiberglass impregnated with epoxy resin. G10 sheets should be NEMA standard high level of electrical insulation Class 'H' with high mechanical strength.

K. Raghavendra
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SOLD, CAD

III. Machining of SS Radial Clamps Type - I: (See Figure:3)

IV. Machining of SS Radial Clamps Type - II: (See Figure:4)

V. Machining of SS threaded connectors: (See Figure:5)

VI. Machining of Nylon Supports: (See Figure:6)

VII. Material & Accessories to be Supplied:

S. No.	Item Description	Length	Qty
1.	Aluminum Rods 7075-T6 Grade, Outer Diameter 65mm. (Test Certificate to be provided from NABL)	1.2 Mtr	06 No's
2.	SS M12 Bolts with nut, spring washer & 5mm thick flat washer (set)	2 inch bolt length	100 Set's
3.	M10 Threaded SS Rods	1.0 Mtr	10 No's

General Requirements:

1. The entire fabrication & supply of all the above items is within the scope of work of the vendor.
2. The vendors are encouraged to hold prior discussions with the indenter/contact persons for any clarifications or suggestions.
3. Single order will be placed for all the above items and no partial work is permitted.
4. Any delay which is attributable to the contractor is liable for penalty @ ½% per week (max 5%) to be imposed on the contractor.
5. All the fabricated items should be delivered within 30 days to the address provided below after the release of purchase order.
6. **Place of Delivery:** PEB-04, Computational Analysis Division, Bhabha Atomic Research Center, Gandivanipalem village, Dossuru Panchayat, Atchutapuram Mandal, Visakhapatnam, Andhra Pradesh – 531011.

Contact Persons:

1. **Shri. Raghavendra Kollipara** (Indenting Officer)

SO/D, Computational Analysis Division

BARC-Vizag. Ph: 0891-2832109.


Email: raghavenk@barc.gov.in

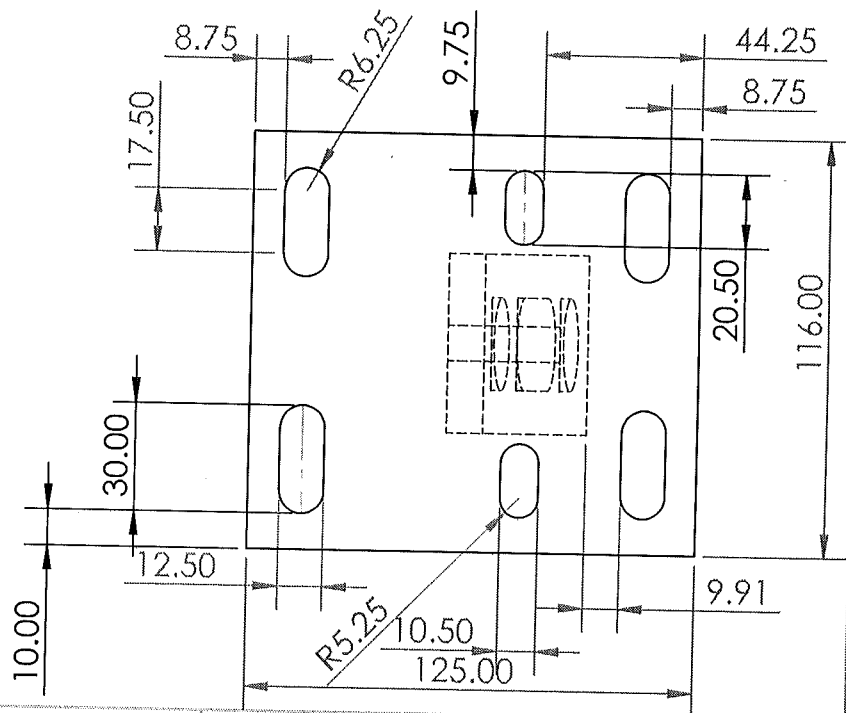
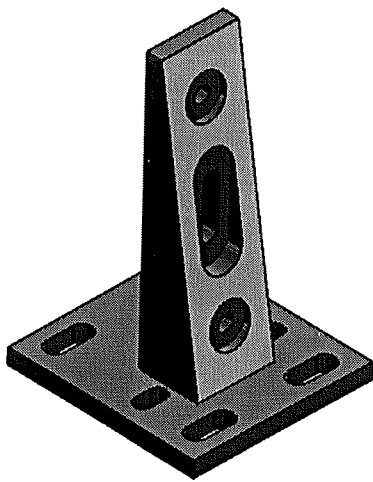
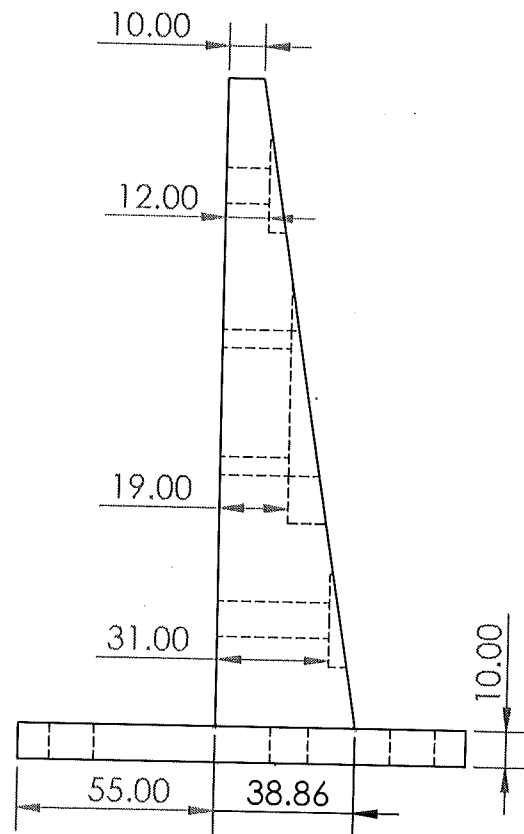
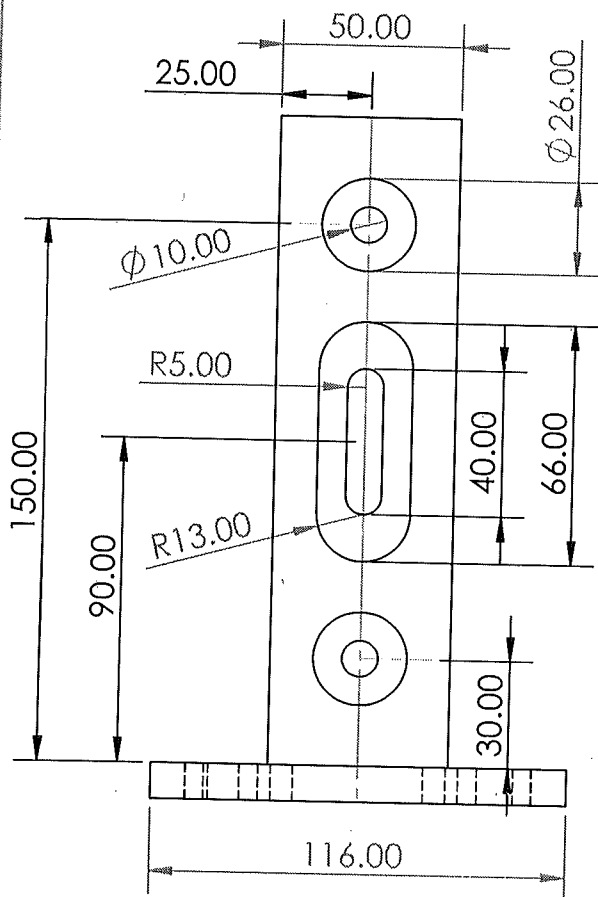
2. **Shri. Surya Prasad I.V.V**

SA/E, Computational Analysis Division

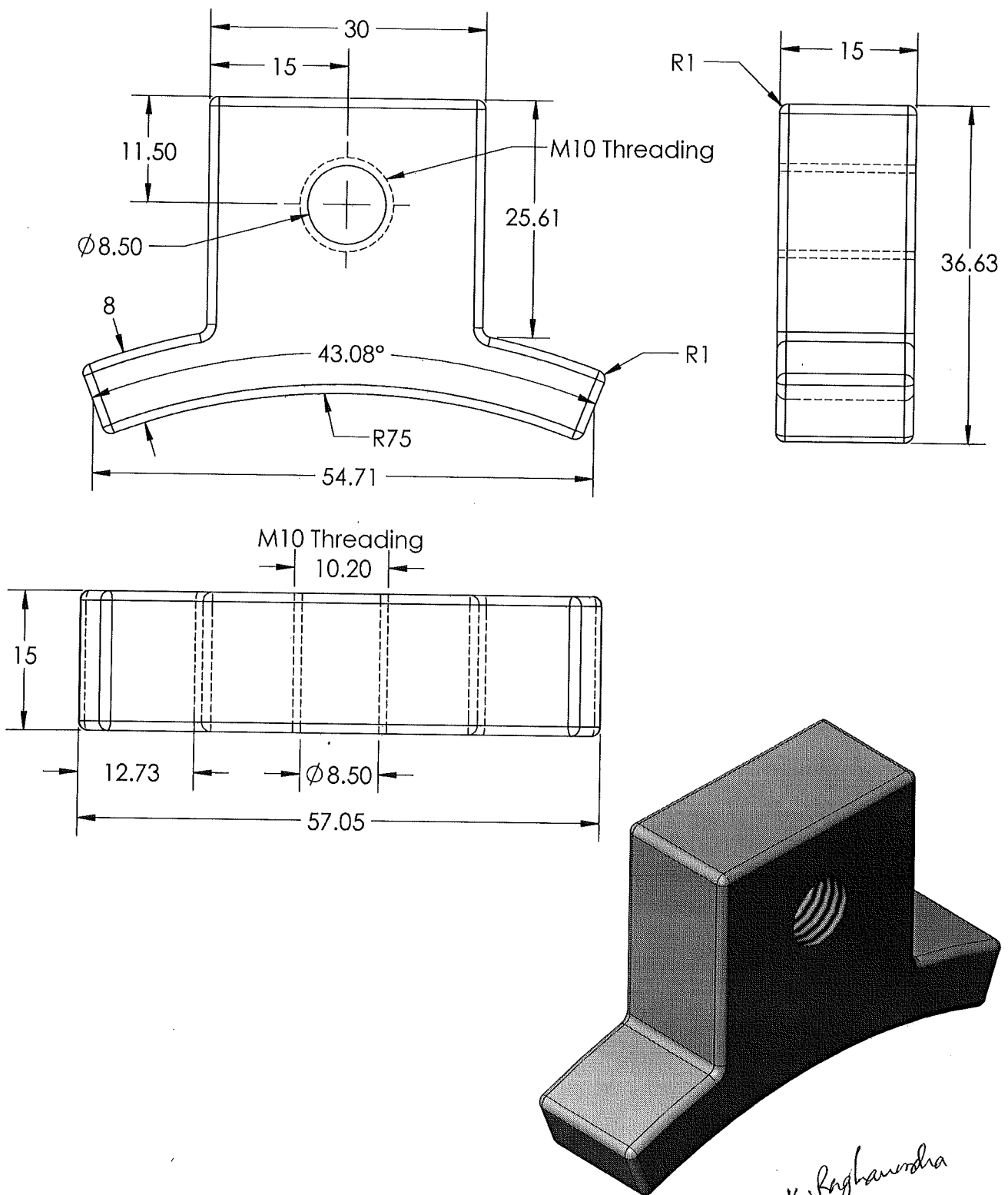
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Email: ivvsurya@barc.gov.in

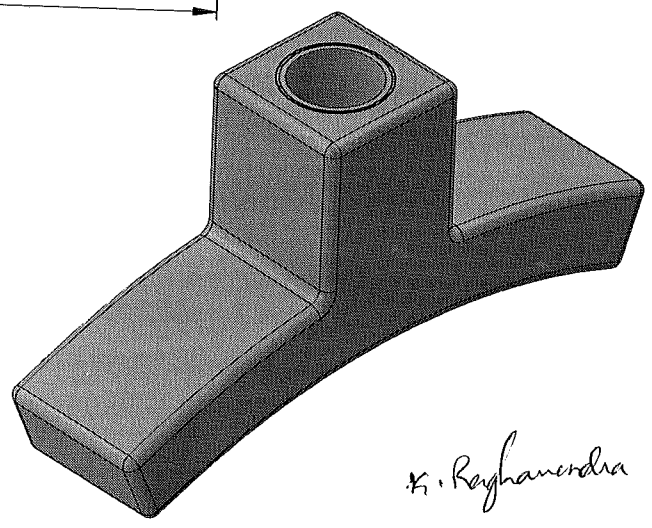
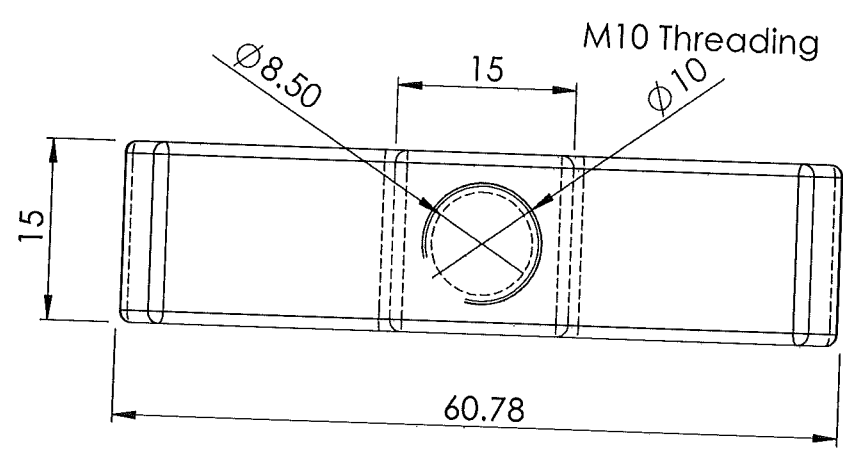
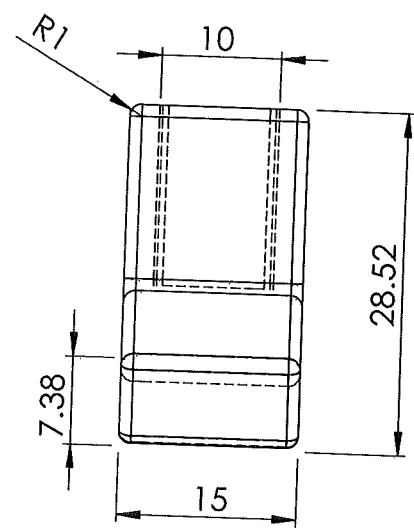
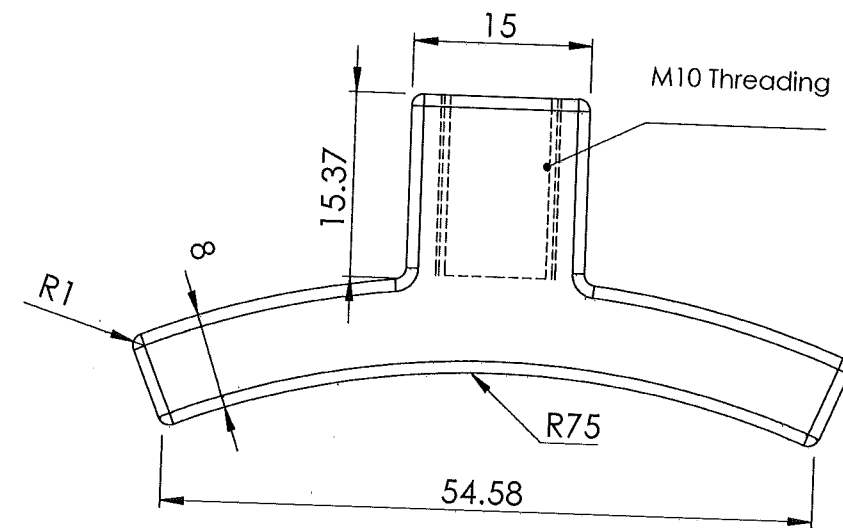

(Raghavendra Kollipara)
SO/D, CAD



CAD/HEDM/ Wo/22-23/05	BARC,CAD VISAKHAPATNAM	Title: SS POST ASSEMBLY
Figure: 01	All dimensions are in mm	Tolerance: +/-0.05mm
Quantity: 24Set.	Material: SS 304	Scale:1:1
DATE:17/05/2022	Drawn:	Approved: <i>K. Raghavachari</i>

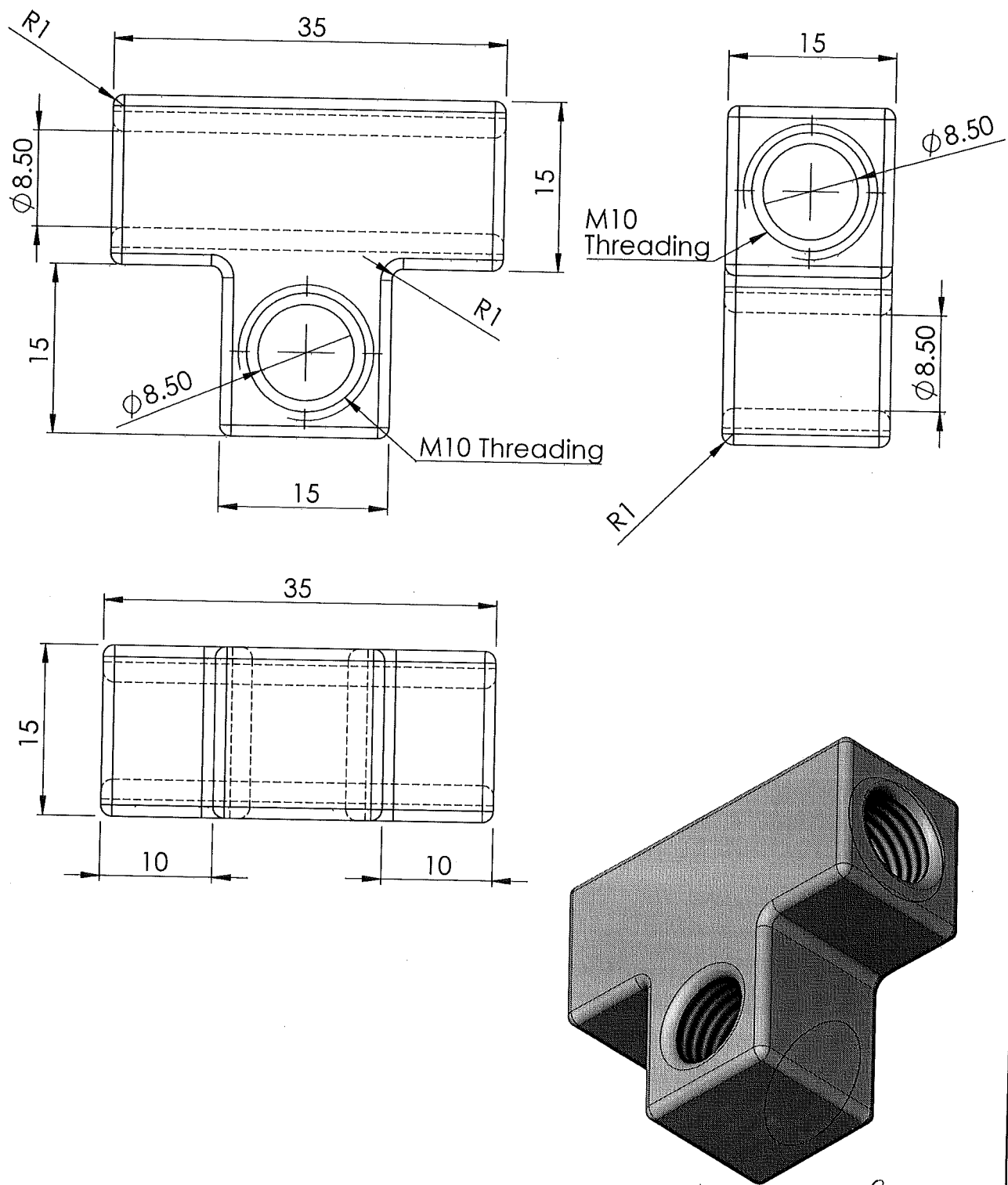


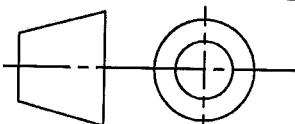
CAD/HEDM/ WO/22-23/05	BARC, CAD Visakhapatnam	Title: SS Radial Clamp Type: I	
Figure: 03	All dimensions are in mm	Tolerance: +/- 0.05mm	
Quantity: 24 Nos.	Material: SS 304	Scale: 1:0.6	
DATE: 17/05/2022	Drawn:	Approved:	

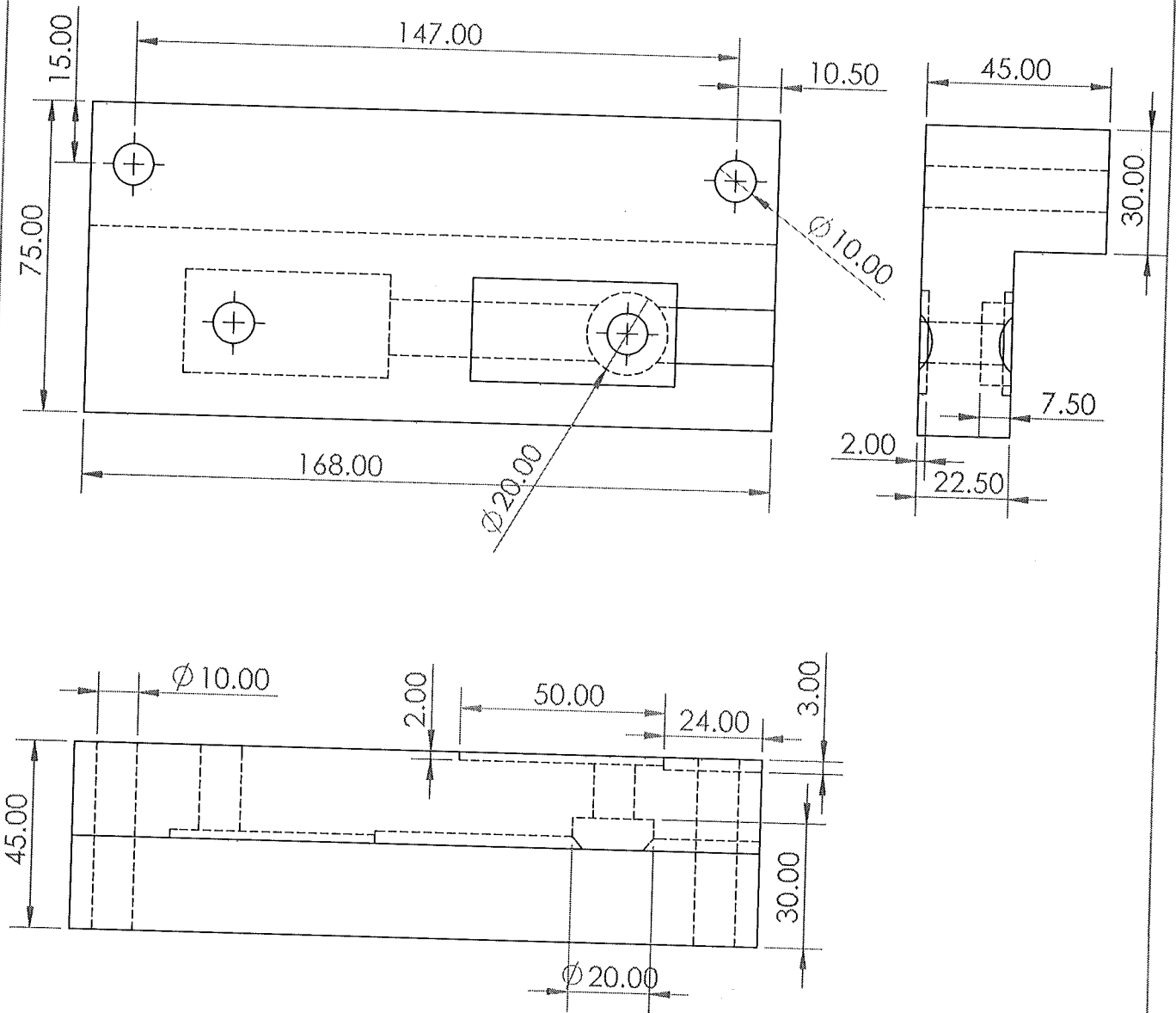


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CAD/HEDM/ WO/22-23/05	BARC, CAD Visakhapatnam	Title: SS Radial Clamps Type-II	
Figure: 04	All dimensions are in mm	Tolerance: +/- 0.05mm	
Quantity: 24 Nos.	Material: SS 304	Scale: 1:0.6	
DATE: 17/05/2022	Drawn:	Approved:	



CAD/HEDM/ WO/22-23/05	BARC, CAD Visakhapatnam	Title: SS Threaded Connector	
Figure: 05	All dimensions are in mm	Tolerance: +/- 0.05mm	
Quantity: 24 Nos.	Material: SS 304	Scale: 2:1	
DATE: 17/05/2022	Drawn:	Approved:	



K. Raghavendra

CAD/HEDM/ WO/22-23/05	BARC, CAD Visakhapatnam	Title: Nylon Support	
Figure: 06	All dimensions are in mm	Tolerance: +/- 0.05mm	
Quantity: 06No's	Material: Nylon	Scale: 1:1.5	
DATE: 17/05/2022	Drawn:	Approved:	