

TENDER DOCUMENT

SUB. : FABRICATION OF 4 MIL AND 15 MIL
LEAD SHIELDING & BALANCING WEIGHT
(SECOND VERSION)

TENDER NO. : SMR/LTD/FB029/2024L/PT

DUE ON : 02 / 11 / 2023

Pre Bid Meeting Date : 16th, October 2023 at 11.00 AM
SAMEER, CBD Belapur

EMD : Rs.1,80,000 /-

TENDER FEE : Rs.500 + 18 % GST



प्रायोगिक सूक्ष्मतरंग इलेक्ट्रॉनिक्स इंजीनियरी तथा अनुसंधान संस्था
SOCIETY FOR APPLIED MICROWAVE ELECTRONICS ENGINEERING & RESEARCH
आई आई टी कैंपस, पवई, मुंबई 400076. फोन : 022 25723030/7221 फैक्स : 022 25723254
IIT CAMPUS, POWAI, MUMBAI 400 076. TEL : 022-25723030/7221, Fax : 022 25723254
WEB SITE : www.sameer.gov.in E-mail : purchase@sameer.gov.in

Contents

		Page No.
1. Section - I	Instructions for Submitting the Offers	3
2. Section - II	Technical Specifications	8
3. Section - III	Commercial and Other Terms & Conditions	14
4. Section - IV	Format for submitting Price Bid	17
5. Annexure I	Bid Security Declaration	20
6. Annexure II	Self Certification for Local Content	21

SECTION – I

INSTRUCTIONS FOR SUBMITTING THE OFFER

1. Tender document can be purchased from the Accounts Section of SAMEER located at IIT Campus, Powai, Mumbai-76, between 1.30 pm to 4.30 pm, on cash payment, on all days except Saturdays, Sundays and public holidays.

If the Tender document is downloaded from our website <http://www.sameer.gov.in> or <https://eprocure.gov.in/eprocure/app>, then the Tender Fee is not applicable.

1.1 A Pre-bid meeting of all the Bidders will be convened on 16th, October 2023 at 11.00 AM. The purpose of this meeting will be to clarify the requirements as envisaged by the Authority and also to address the queries if any. Location: SAMEER, Raintree Marg, Sector-7, CBD Belapur, adjacent to Bharati Vidyapeeth, Navi Mumbai-400614.

Contact Person:

Sandeep S. Name, Sc. 'D', LTD (022 2759 3025)

Kiran Thakur, Sc. 'E', LTD

2. Earnest Money Deposit (EMD):

A. Earnest Money Deposit should be submitted in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any commercial bank of India, drawn in favour of "**Society for Applied Microwave Electronics Engineering and Research**". If the EMD is given in the form of Bank Guarantee or Fixed Deposit then it should be valid for minimum 15 days beyond the validity of the quotation. EMD also can be paid through online payment mode. Intimation should be sent to SAMEER once the online payment is done. A copy of the Transaction details should be enclosed with Technical Bid.

For online payment our banker's details are as below:

Beneficiary Name : **Society for Applied Microwave Electronics Engineering and Research (SAMEER)**

Name and address of the Bank : Canara Bank, IIT Powai Branch Mumbai 400 076.

Account Number : 2724101086829, Type of the Account : Saving,

IFS Code : CNRB0002724, MICR : 400015129

B. Refund of EMD : Unsuccessful tenderer's earnest money will be returned to them **without any interest** once the tender is finalized. Successful bidder's earnest money will be returned **without any interest** only after submission of Security Deposit (Performance Security).

C. Forfeiture of EMD : Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. Successful tenderer's earnest money will be forfeited if tenderer does not execute purchase order / contract as per the terms and conditions mentioned therein.

D. Exemption from submission of EMD : Firms which are registered with Ministry of Electronics and Information Technology (MeitY) or All MSEs having registration as per

provisions of the MSME Policy i.e. registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or directorate of Handicrafts and Handlooms or Udyog Aadhaar Memorandum or any other body specified by Ministry of MSME are also exempt from payment of EMD. Proof of valid registration should be attached along with the Technical Bid, failing which the Tender will be rejected.

E. Bid Security Declaration for EMD: In lieu of submission of EMD, vendor may submit the “Bid Security Declaration” as per Annexure I, on their letterhead. It may be noted that the Ministry of Finance had introduced the submission of Bid Security Declaration in lieu of the EMD, for a limited period only. If at any time the Ministry of Finance withdraws the facility of the submission of Bid Security Declaration or the relevant order of the said Ministry providing for the submission of Bid Security Declaration in lieu of the EMD ceases to be in force, the bidder will have to submit the EMD.

3. A. In a tender, either the Indian Agent on behalf of the Principal / OEM (Original Equipment Manufacturer) or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

B. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

Failure to adhere to the above conditions will lead to automatic disqualification of the bid. Tenders submitted by the Indian agent on behalf of his principal /OEM should be supported with a letter of authority from the Principal/ OEM.

In case the manufacturer does not have an authorised representative in India at the time of submission of the bids and the company appoints a representative later on, SAMEER will only correspond with the manufacturer.

4. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services or works only if they are registered with the Registration Committee, constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). A valid registration certificate is to be attached. “Bidder from a country which shares a land border with India” means: -

- a. An entity incorporated, established or registered in such a country; or
- b. A subsidiary of an entity incorporated, established or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or
- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

The Successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India, unless such contractor is registered with the Registration Committee, constituted by the DPIIT.

5. PERFORMANCE SECURITY

a. The successful bidder has to give Performance Security Deposit in the form of an Account Payee Demand Draft / Fixed Deposit Receipt from an Indian commercial bank / Bank Guarantee from an Indian commercial bank / a counter Letter of Credit (LC) from our bankers (in case of foreign order), for 3 % of Order Value, immediately after receiving the purchase order. Performance Security should remain valid for a period of sixty days beyond the date of all contractual obligations including warranty obligations.

b. Successful tenderers Performance Security will be forfeited if the purchase order / contract is not executed as per the terms and conditions mentioned therein.

c. Performance Security Deposit without any interest will be returned only after complete execution of purchase order (including warranty period), as per purchase order 's terms and conditions.

6. Purchase Preference (Preference to make in India): As prescribed in “Public Procurement (Preference to Make in India) order 2017 of GOI, Department of Industrial Policy and Promotion” (OM No. P-45021/2/2017-PP(BE-II dated 15th June 2017 as amended from time to time), purchase preference will be given to the bidder. Necessary certification for local content must be submitted by the prospective bidders strictly as per Annexure II”, on their letterhead.

7. Tender is to be submitted in two separate sealed covers, superscribed as `Technical Bid' and `Price Bid' respectively and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed. Tender should be addressed to `The Purchase Officer, SAMEER, IIT Campus, Powai, Mumbai 400 076'. Tender reference number including `Due Date' should be clearly mentioned on all covers. Name, Address and contact details of the vendor should be mentioned at back side of all covers.

8. Further details concerning `Technical Bid' and `Price Bid' are given below:

A. Technical Bid:

- ❖ Original manufacturer's technical specification sheet must support details provided in the Technical bid with all the specifications/ relevant technical Literatures/Brochures/Catalogues for the item. Bids received without the printed technical specification sheet/brochures/catalogues for item will be technically disqualified.
- ❖ The Technical Bid should not contain any price information.
- ❖ The item and accessories quoted must be from original manufacturer and must be new (**No second hand item/sub-item will be accepted**)
- ❖ In case the bidder is the authorised representative of a foreign manufacturer/supplier, a certificate from the principal must be included along with the technical bid.
- ❖ In case of deviation or substitution from the particular specification contained in the tender document, please indicate clearly as 'Alternative offer' and should contain

sufficient details to show that the alternative would equally serve the purpose. All relevant technical data should be enclosed. In case of equipment, the itemised cost of essential accessories, optional accessories and spares required need to be specified.

❖ **Technical Bid should contain the following :**

- a. **Earnest Money Deposit (EMD) / valid certificate for exemption or Bid Security Declaration** (Annexure I).
- b. **Tender Fee Receipt Number** (if the tender document is purchased from Accounts Section, SAMEER, Mumbai).
- c. **Technical Specification**
- d. **SECTION III** of Tender Document i.e. Commercial Terms & Conditions duly filled, stamped and signed.
- e. A copy of '**Price Bid**' with all financial figures **suppressed/deleted**.
- f. Certification for local content (Annexure II).
- g. A valid registration certificate from DPIIT as per Sr. No. 4 of Section I, if applicable.

Technical Bid without the above information will not be considered.

B. Price Bid:

Price bid shall contain the following information:

- a. Quotation for the items (including the price break up for all options and accessories).
- b. TAXES, DUTIES AND LEVIES if applicable should be clearly specified.
- c. Discount offered on quoted price (considering that SAMEER is an R&D organisation).
- d. Total price should be mentioned in both figures and words. Alterations, if any, should be attested / initialled.
- e. The bid shall be free of hidden costs / ambiguity.
- f. There shall be no overwriting.

9. Tenders/Bids should be dropped in Tender Box only.

10. Tender received via email, fax and Late Tenders will not be considered.

11. Unsuccessful bidders will not be formally informed of the result of their tender.

12. Only Technical Bid will be opened on the next day of the due date. The Price Bids of the technically short listed tenderers will be opened at a later date with intimation to the short listed tenderers.

13. Date and Timing for opening Tender: Next working day after due date.

IMPORTANT NOTE:

- a. Participation in Public Tender Opening will be STRICTLY via ONLINE VIRTUAL PLATFORM.
- b. Vendors interested must fill the ONLINE FORM available at <http://publictender.sameer.gov.in/> , two working days before the tender opening date.

- c. On the day of tender opening, a virtual meeting link will be provided through mail to the vendors who have registered for participating in the tender. Only the vendors who have submitted the offer can participate in the online tender opening.
- d. It will be assumed that those Vendors who did not fill in the form are not interested in joining the Tender Opening Process.

14. For any clarification please mail to purchase@sameer.gov.in

15. Corrigenda: Corrigenda, if any, to this tender will be published on our website www.sameer.gov.in. The bidders are advised to check our website, before submitting the bid.

SECTION - II

TECHNICAL SPECIFICATION

1. SCOPE:

List of Assemblies & Job

Sr. No.	Description	Annexure	Weight	Set	Total Weight
1.	4 MIL LEAD SHEILDING & BALANCING WEIGHT	Annexure-I	1937.2 Kg	1 sets	1937.2 Kg
2.	15 MIL LEAD SHEILDING & BALANCING WEIGHT	Annexure-II	2624.8 Kg	3 sets	7874.4Kg
Approximate Total weight					9811.6 Kg

The work includes casting, fabrication, assembly, integration of all sub-assemblies & main assembly at vendor's place, testing (demonstration), Inspection report, documentation, crating, safe delivery, loading –unloading, installation & re-testing of the same at purchaser's sites.

Note: It is important to note that, it is a heavy, very precision, fabricated machined components and any deviation from the specifications may lead to rejection of total system.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

2. DRAWINGS, CODES & STANDARDS

MECHANICAL: REFER ANNEXURE – I, ANNEXURE – II

SAMEER will provide all the technical details which will include mechanical part and sub assembly drawings, material specification and list of parts.

The unit should be fabricated strictly conforming to design and specifications as laid down in this tender document. The work shall be carried out strictly in accordance with the tender drawings & documents. These documents shall constitute a part of this specification & apply as specified herein. In the event of any conflict between any requirement as given in this specification and that of the applicable codes and standard, the governing requirement shall be the more stringent of the two at the discretion of the purchaser. Similarly in case of a conflict between these specifications and drawings, the information given in the drawings shall be the overriding information.

All part details indicate finished dimensions, vendor should consider machining allowance where ever necessary.

The purchaser reserves the right to make, wherever found necessary minor changes in the fabrication drawings prior to their approval and such changes shall be considered to be within the scope of the specified work and shall not be considered as extra work.

Applicable Codes/Standards

- | | | | |
|------|-----------------|---|--|
| i. | IS 1654 : 1992 | | LEAD-ANTIMONY ALLOYS |
| ii. | ASME Section II | : | Part A (Ferrous material)
Part C (welding rods) |
| iii. | ASME Section V | : | Non Destructive Tests |

- iv. ASME Section IX : Welding Qualifications
- v. ASTM-E-165 : Liquid Penetrate Examinations
- vi. ASTM-E-142 : Radiography
- vii. IS – 2102 : Dimensional Tolerances
- viii. Class of Internal Threads : Class 2B (Ref-Machinery handbook)

REMARKS: Vendor to state Complied / Not Complied - Deviations:

3. MATERIALS

PbSb 5, IS 1654 : 1992 LEAD-ANTIMONY ALLOYS

Grade %	Antimony %	Arsenic %	Tin %	Copper %	Bismuth %	Iron %	Zinc %	Silver %	Lead %
PbSb 5	4.5-5.5	--	--	0.05	0.03	0.003	0.001	0.04	Balance

All materials purchased should be tested for their quality and the test certificates be provided to SAMEER in original. In case of non-availability of a particular size of material, the next bigger size can be procured and machined out to the required size.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

4. Lifting Arrangement

Vendor shall make provision for lifting holes/eye bolts etc. to lift lead shielding put appropriate threaded inserts stable & lifting the same horizontally.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

5. FABRICATION/ MANUFACTURING REQUIREMENT

Fabricator shall prepare the shop drawings, bill of materials and plate cutting layouts, and shall fabricate, inspect, test, package and deliver the shielding to SAMEER as per details given in this specification. Fabricator's scope of work shall terminate only when the complete components are delivered in good condition, without any damage to SAMEER.

Stage wise detailed manufacturing plan schedule and sequence of assembly to be adopted for manufacturing of 4MIL & 15 MIL lead shielding & balancing weight shall be submitted for approval of the Purchaser.

Subassemblies shall be painted with 2 coats of off-white Polyurethane paint after giving a coat compatible primer except on machined surfaces for M.S. material wherever mentioned.

Any difficulty in achieving the machining tolerance can be discussed with SAMEER and possible correction can be obtained before execution.

Any type of fixtures, special tools or jigs made to execute the fabrication, assembly or inspection may be documented properly with engineering drawings. The jigs, fixtures or special tools will become the property of SAMEER and should be supplied along with the other deliverables.

Fabrication can start with sizing of all parts for welding. Before welding the parts shall be visually examined for any lamination or cracks at the edges & surface.

On successful demonstration of 4MIL & 15 MIL lead shielding & balancing weight by integration, the subassemblies be dismantled and packed safely. All moving parts are to be located in position before packing and packing should be done with weather proof covering.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

6. Cleanliness & Surface Finish

Surface finish required is double triangle for all lead shields.

All scales, dents, burrs, weld spatter, oxide, oil and other foreign materials shall be completely removed, from the material surface. Items that will not permit their cleaning after complete fabrication shall be cleaned prior to assembly. Hammering on completed weld is not permitted.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

7. Handling

Care shall be taken in handling of the sub-assemblies at all stages of manufacture, testing, inspection and shipping. All necessary precautions shall be taken to protect the surfaces from damage. Permanent/non repairable deformation as a result of faulty handling during manufacturing stage or during transportation shall be a cause for rejection of the total lead shielding.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

8. INSPECTION & ACCEPTANCE PROCEDURE:

- A. All the geometrical tests including positioning & repeatability to be carried out at supplier's manufacturing facility as per relevant standards by manufacturer and report to be submitted to SAMEER before dispatch. SAMEER will depute their Engineers to witness these tests.
- B. Supplier has to demonstrate all the tests again after commissioning of the unit in SAMEER, CBD Belapur.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

8.A General Requirement

The manufacturer shall be responsible for and shall provide for and perform all the inspection and testing required as per this specification. The manufacturer shall have a full-fledged quality assurance set-up along with adequate gadgetry. If any part of quality assurance work is proposed to be sub-contracted to outside agencies, the same should be clarified in the offer. The manufacturer shall submit for Purchaser's approval a detailed Quality Assurance Plan (QAP) for manufacturing.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

8.B Discrepancies & Field Changes

Any discrepancies or omission from drawings, specifications or other documents or any doubts arising as to the meaning or intent of any part thereof shall be referred to the Purchaser for which written clarification will be issued by the Purchaser, Verbal communications should be avoided.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

8.C Material Inspection & Tests

All materials including welding consumables procured by the manufacturer for

manufacture of 4MIL & 15 MIL lead shielding & balancing weight under this specification shall be inspected & tested to the requirement of appropriate material specifications/standard & as per an approved quality assurance plan (QAP). In case any material fails in check-tests the manufacturer shall replace the complete lot.

Inspection reports to be generated in approved form filled for each part at each stage. i.e., stage inspection to be carried out. The inspection reports will be audited by purchaser and necessary clearance will be issued to vendor for carrying out the next process based on successful completion of the previous stage.

After auditing the report by SAMEER further progress can be made to next process.

1. Party should give test certificate for lead composition from government recognized lab. (5% Antimony should be within $\pm 1\%$).
2. Density of material should be 11.3gm/cc.
3. The material should be free from any bare hole and casting defects.
4. Sample from the cast material should be tested for density and demonstrate before delivery.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

9. MACHINING & INTEGRATION

On satisfactory report of the above tests, the assembly shall be sent for machining. After machining, inspection of other features like holes and finished surfaces to be carried out and reports be generated.

Based on the audit of this report, the assemblies (sub -assemblies) are to be integrated.

Necessary setting blocks/guide blocks/reference blocks be made for inspection of assemblies which will become part of supply.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

10. INSTALLATION

The assembly is required to be carried at SAMEER CBD Belapur.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

11. DOCUMENTATION

The manufacturer shall compile complete documents (in bound volumes) in respect of each sub assembly. This document shall include the following:

- a. Complete bill of material giving all part numbers.
- b. All test certificates relevant to the materials used.
- c. All test reports: CKD inspection reports, Mock up test & Inspection reports etc.,
- d. Two sets of "as built" drawings (after completion of fabrication) both hard and soft copy on CD.

One set of the following duly approved Documents/Procedures/Reports.

- a. Detailed manufacturing plan
- b. Detailed inspection & Q.A. Plan
- c. Detailed procedure for manufacturing of formed components.
- d. Details of stage inspections carried out by purchaser and DCR's given if any.

In addition to the above Completion Document for each assembly shall also be submitted by the manufacturer at the time of delivery.

- a. All Material Reconciliation Report in all respect of utilization of the Purchaser's FIM.

REMARKS: Vendor to state Complied / Not Complied - Deviations:

Drawing Sheet Details

Refer annexure for detailed drawings.

Sr. No.	Description	EXCEL SHEET NOS.	DRAWING SHEET NOS.			
			A1	A2	A3	A4
Annexure-I 4 MIL LEAD SHEILDING & BALANCING WEIGHT						
1.	BOM 4 MIL LEAD SHEILDING & BALANCING WEIGHT	2				
2.	SMR/MED1/4MIL/12/01			1		
3.	SMR/MED1/4MIL/12/02			1		
4.	SMR/MED1/4MIL/12/03			1		
5.	SMR/MED1/4MIL/12/04			1		
6.	SMR/MED1/4MIL/12/05			1		
7.	SMR/MED1/4MIL/12/06			1		
8.	SMR/MED1/4MIL/12/07			1		
9.	SMR/MED1/4MIL/12/08			1		
10.	SMR/MED1/4MIL/12/09				1	
11.	SMR/MED1/4MIL/12/10			1		
Annexure-II 15 MIL LEAD SHEILDING & BALANCING WEIGHT						
1.	BOM 15 MIL LEAD SHEILDING & BALANCING WEIGHT	1				
2.	SMR/MED1/15MIL/06/01				1	
3.	SMR/MED1/15MIL/06/02				1	
4.	SMR/MED1/15MIL/06/03				1	
5.	SMR/MED1/15MIL/06/04				1	
6.	SMR/MED1/15MIL/06/05				1	
7.	SMR/MED1/15MIL/06/06				1	
8.	SMR/MED1/15MIL/06/07				1	
9.	SMR/MED1/15MIL/06/08				1	
10.	SMR/MED1/15MIL/06/09				1	

Inspection & Acceptance Procedure

The following acceptance tests are mandatory to pass/qualify the product for final acceptance of all listed mechanical structures. The acceptance tests are required to be done at factory premises of the vendor, at SAMEER premises. Each parameter should be strictly within the permissible deviation.

Sr. No.	Description	Item 1: 4 MIL LEAD SHEILDING & BALANCING WEIGHT		Item 2: 15 MIL LEAD SHEILDING & BALANCING WEIGHT	
		Permissible deviation	Actual deviation	Permissible deviation	Actual deviation
1	All the dimensional tolerances mentioned in drawing				
2	All the geometrical tolerances mentioned in drawing				
3	Overall size				
4	Fitting of entire sub-assemblies into main assembly with permissible deviation				
5	Individual weight of shielding & balancing weight in tabular format				

SECTION- III

Commercial & Other Terms and Conditions

Vendor to state Complied / Not Complied – Deviations if any in the REMARKS column

S.N.	DESCRIPTION	ESSENTIAL CONDITIONS	REMARKS
a.	PRICES	a. For Import Order: Prices quoted should be on FCA (<u>nearest Intl. Airport at shipper's country</u>) , Name of the Airport should be mentioned clearly. b. For Local Order: Prices should include delivery charges up to <u>SAMEER's Stores</u>. Any additional charges, taxes and levies should be clearly mentioned. In the event of a Purchase Order, it will be the responsibility of the supplier to pay whatever charges are payable to different agencies in their country. The purchaser will not pay any charges other than the agreed price as per the contract.	
b.	TAXES , DUTIES AND LEVIES APPLICABLE	(Existing applicable rates should be mentioned) 1. 2. 3. 4.	
c.	PACKING	All the items should be packed in suitable boxes, crated and protected from damages during the transit till they are delivered to destination.	
d.	FREIGHT AND INSURANCE	a. For Local Order : To be arranged by supplier. All the items shall be delivered to Stores Officer, SAMEER, IIT Campus, Powai, Mumbai after obtaining a shipping release in the appropriate pro-forma from the purchaser. The Vendor shall be fully responsible for the safe delivery of all the items from and to SAMEER Powai and shall satisfy the purchaser that adequate measures have been taken for the same. b. For Import Order : Will be arranged by SAMEER from FCA International Airport.	Insurance will be govern by SAMEER
	Vendor's Signature: Seal:		

S.N.	DESCRIPTION	ESSENTIAL CONDITIONS	REMARKS
e.	ANY OTHER CHARGES APPLICABLE	SUPPLIER TO SPECIFY	
f.	MODE OF DELIVERY	a. For Local Order : By road b. For Import Order : By Air	
g.	DELIVERY SCHEDULE	5 Months	
h.	WARRANTY	Acceptance of materials will be after inspection. i.e., Goods must be free from any defects in material and workmanship according to the agreed specifications, drawings, descriptions.	
i.	PAYMENT TERMS	a. For Import order : 90 % against Irrevocable Letter of Credit or Sight Draft and balance 10 % through wire transfer after acceptance of material at SAMEER. b. For Local order: 75 % after delivery followed by inspection balance 25 % against Test, Installation & acceptance (whichever is applicable) of material / consignment, at SAMEER.	
j.	VALIDITY OF QUOTATION	90 DAYS MIN FROM THE DUE DATE.	
k.	Tender Fee (Including GST)	Tender document may be purchased from the Accounts Section of SAMEER, Mumbai on cash payment or by Demand Draft from any commercial bank of India, drawn in favour of “ Society for Applied Microwave Electronics Engineering and Research ”. If the Tender document is downloaded from website, then the Tender Fee is not applicable.	
l.	Earnest Money Deposit (EMD)	a. Earnest Money Deposit (EMD) should be submitted in the form of Account Payee Demand Draft, Fixed Deposit Receipt, Banker’s Cheque or Bank Guarantee from any commercial bank of India, drawn in favour of “ Society for Applied Microwave Electronics Engineering and Research ”. b. For exemption, please refer SECTION I, 2 d c. In lieu of EMD, vendor may submit “Bid security Declaration” on their letterhead. (vendor should mention the applicable option from above in the Remark column)	
Vendor’s Signature: Seal:			

S.N.	DESCRIPTION	ESSENTIAL CONDITIONS	REMARKS
m.	PERFORMANCE SECUIRTY	The successful bidder has to give Security Deposit in the form of an Account Payee Demand Draft / Fixed Deposit Receipt from an Indian commercial bank / Bank Guarantee from an Indian commercial bank / a counter Letter of Credit (LC) from our bankers (in case of foreign order), for 3 % of Order Value, immediately after receiving the purchase order. Performance Security should remain valid for a period of sixty days beyond the date of all contractual obligations including warranty obligations.	
n.	EXEMPTION FOR CUSTOM DUTY AND EXCISE DUTY	SAMEER is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of Government of India Notification No. 51/96-customs amended to 24/2007-customs dated 1ST March 2007. {approx. 5.50 % duty (5 % Basic + 10% Social welfare surcharge) + IGST is applicable under his notification} and central excise duty exemption in terms of Government Notification no. 10/97-central excise amended to 16/2007-central excise dated 1 st March 2007.	
o.	SHARING LAND BORDER WITH INDIA	a. Yes / No b. If Yes, whether necessary valid registration certificate is attached along with Technical bid.	
p.	JURISDICTION	MUMBAI	

Vendor's Signature:

Seal:

OTHER TERMS & CONDITIONS

Vendor to state Complied / Not Complied – Deviations in the REMARKS column.

Sr. No.	DESCRIPTION	Remarks
1	CONFIDENTIALITY CLAUSE All documents/drawings are the property of SAMEER, Mumbai. It must be returned with the quotation & should not be disclosed to any third party without written consent from SAMEER. Also it is prohibited to make copies of any form (Hard, Soft or Electronic) from any part of these documents without written consent from SAMEER-Mumbai.	
2	VENDOR QUALIFICATION: ESSENTIAL REQUIREMENTS Vendor should have adequate manpower to undertake this work The manpower strength (Mechanical & Electrical) at various levels to be furnished a) B.E. / B.TECH. b) DIPLOMA c) SKILLED TECHNICIANS d) UNSKILLED	
	B. Vendor should have adequate manufacturing facilities for part and subassembly fabrication related to this work. The list of machine tools available to be furnished.	
	C. Vendor should have adequate inspection and quality control facilities for this work. The list of quality control instruments available to be furnished.	
	D. Vendor should have adequate space for undertaking this work. Available space – Covered & open to be furnished.	
	E. Vendor should have sound financial back ground and a proven record. He should have taken up similar or more complicated jobs and executed successfully. List of three such assignments done in last three years to be enclosed. Enclose copies of purchase orders.	
	F. List of minimum one customer of similar work to be furnished. Give complete address & Tel. No. of the contact person	
	G. Demonstration of the working unit of already developed system involving mechanical fabrication, machining, drives & control. Vendor to arrange demonstration if asked.	
	H. Sub-contractor/Sub-vendors: Sub-contracting of the entire work is not permitted. Also, even for partial sub-contracting, the Vendor shall make clear in his offer, the names and full details of the sub-vendors whom they propose to employ for Part-work	
	I. Vendor Evaluation : The facilities of the Vendor and Sub-vendor will be evaluated by experts from SAMEER. Only on satisfactory conditions of evaluation, the order will be placed. However, it is important to note that this is one of the qualifying criteria. Purchaser would qualify the vendor after Technical bid opened and before price bid opening.	
	J. Quality, workmanship & timely delivery are the essence of contract. Vendor is expected to give excellent workmanship in terms of Mechanical dimensions & geometrical tolerances such as Orthogonality, Parallelism, Flatness, Concentricity & Surface finish etc.,. Vendor giving bid for a part of it will not be considered.	
Vendor's Signature:		Seal:

SECTION- IV

Format for Price Bid (in INR)

IMPORTANT

Vendor is required to submit the price bid in the given format on their LETTER HEAD.

One copy of the price bid without the financial figure should be enclosed along with the Technical Bid.

ITEM	DESCRIPTION	QUANTI TY	RATE IN INR	PRICE IN INR
I	4 MIL LEAD SHEILDING & BALANCING WEIGHT	1 Nos		
II	15 MIL LEAD SHEILDING & BALANCING WEIGHT	3 Nos		
V	OTHER CHARGES , , if any			
1.	TAXES AND DUTIES APPLICABLE ON ITEMS			
	I			
	II			
2.	FREIGHT from Vendor's manufacturing facility to SAMEER Powai.			
3.	INSURANCE			
4.	ADDITIONAL CHARGES IF ANY			
	TOTAL AMOUNT			
	TOTAL AMOUNT (IN WORDS)			
	Vendor's Signature: Seal:			

Format for Price Bid (in Foreign currency)**IMPORTANT**

Vendor is required to submit the price bid in the given format on their LETTER HEAD.

One copy of the price bid without the financial figure should be enclosed along with the Technical Bid.

ITEM	DESCRIPTION	QUANTI TY	RATE IN (Name of currency)	PRICE IN (Name of currency)
I	4 MIL LEAD SHEILDING & BALANCING WEIGHT	1 Nos		
II	15 MIL LEAD SHEILDING & BALANCING WEIGHT	3 Nos		
	ADDITIONAL CHARGES IF ANY			
	FCA CHARGES (Name of the Intl. airport) From Vendor’s manufacturing/shipping facility to Manufacturer’s country’s Intl. Airport.			
	TOTAL AMOUNT			
	TOTAL AMOUNT (IN WORDS)			
	Vendor’s Signature: Seal:			

S/d
Purchase Officer

Annexure - I

Bid Security Declaration

Dated:

To,
The Registrar,
Society for Applied Microwave Electronics Engineering and Research
IIT Campus, Powai,
Mumbai 400076

Sir,

I, the undersigned, declare that:

1. I am duly authorised to submit bid and undertakings in response to your tender No. _____
2. I understand that the bidders are required to submit Bid Security of the prescribed amount, while submitting bids in response to tender enquiries of the Society for Applied Microwave Electronics Engineering and Research (SAMEER).
3. As an alternative to the Bid Security, I hereby declare that my firm, which is submitting the current bid, will be suspended for the period of time specified in the request for bid document or for a period of three years if no such period of time is specified in the request for bid document, from being eligible to submit bids for contracts with SAMEER,
 - i. if we withdraw or modify the bid during the period of validity (including the extended period of validity) **or**
 - ii. If we fail to sign the contract, or to submit the performance security before the deadline prescribed in the request for bid document or in the communication sent by SAMEER.

Signature with seal:

Name: _____

Designation _____

Name of the firm _____

Place _____

Annexure - II

Self Certification for Local Content (Should be on the letter head of the bidder)

*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and we come under 'Class-I Local Supplier' Category. Being 'Class-I Local Supplier', we are eligible for Purchase Preference in accordance with Department of Promotion of Industry and Internal Trade's Order No.P45021/2/2017-PP (B.E.-II) dated 15.06.2017 , as modified, vide the said Department's orders No. P-45021/2/2017-PP(BE-II) dated 28/05/2018, No. P-45021/2/2017-PP(BE-II) dated 29/05/2019 and No. P-45021/2/2017-PP (BE-II) dated 04/06/2020

OR

*We [name of manufacturer] hereby confirm in respect of quoted items(s) that Local Content is more than 20% but less than 50% and we come under 'Class-II Local Supplier' Category, as per the said order of Department of Promotion of Industry and Internal Trade

OR

*We [name of manufacturer] hereby confirm in respect of quoted items(s) that Local Content is less than or equal to 20% and we come under 'Non Local Supplier' Category.

The details of the location (s) at which the local value addition made is /are as under:

- 1.....
- 2.....
- 3.....

*Strike out whichever is not applicable

Date:
Bidder

Seal & Signature of the

NOTE:-

1 Bidder should submit Self-certification that the item offered meets the minimum local content (as above) giving details of the location(s) at which the local value addition is made in case the bidder wishes to avail the benefits under the make in India policy, if applicable.

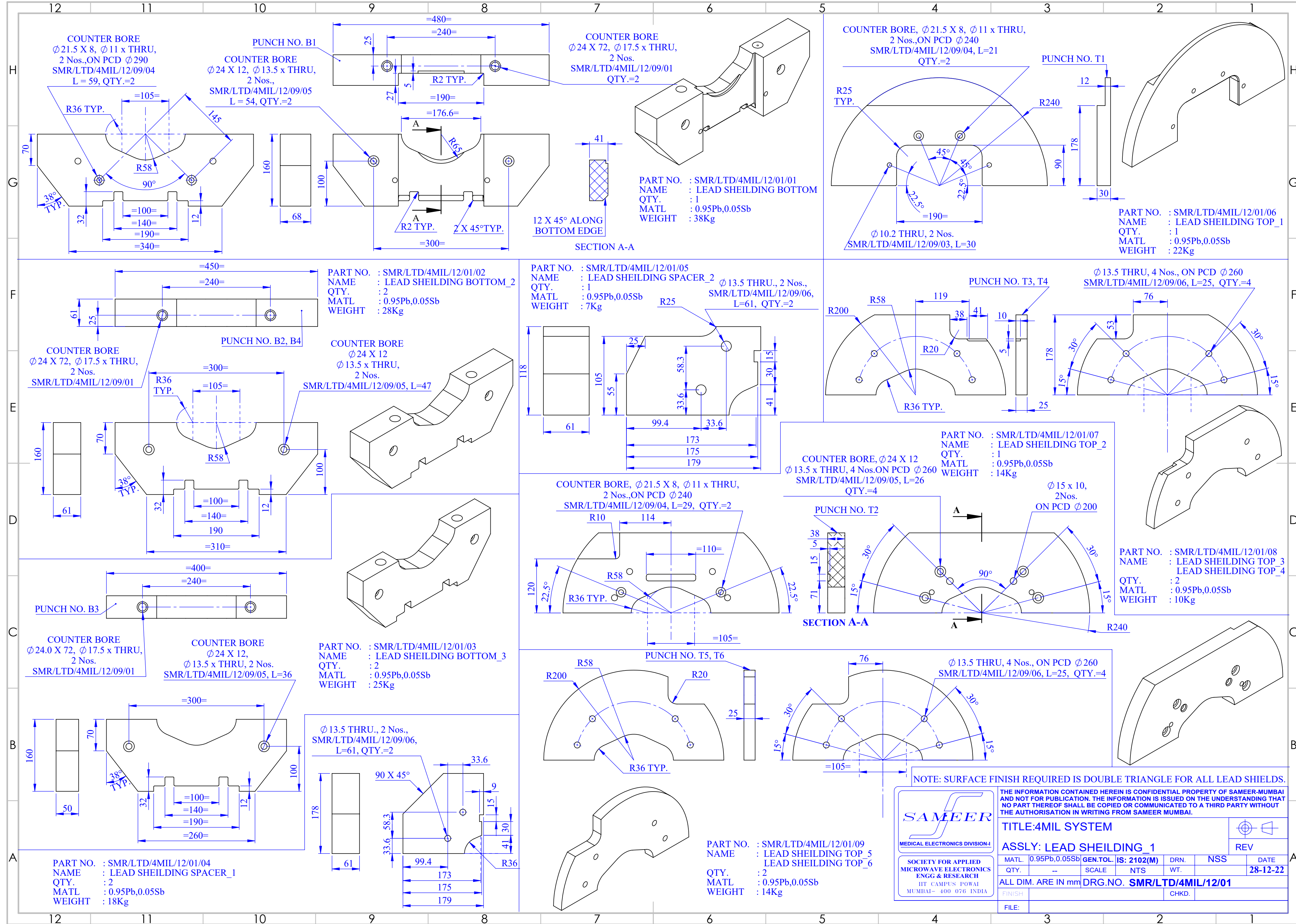
2. In cases of procurement for a value in excess of Rs. 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content to avail the benefits under the make in India policy, if applicable.

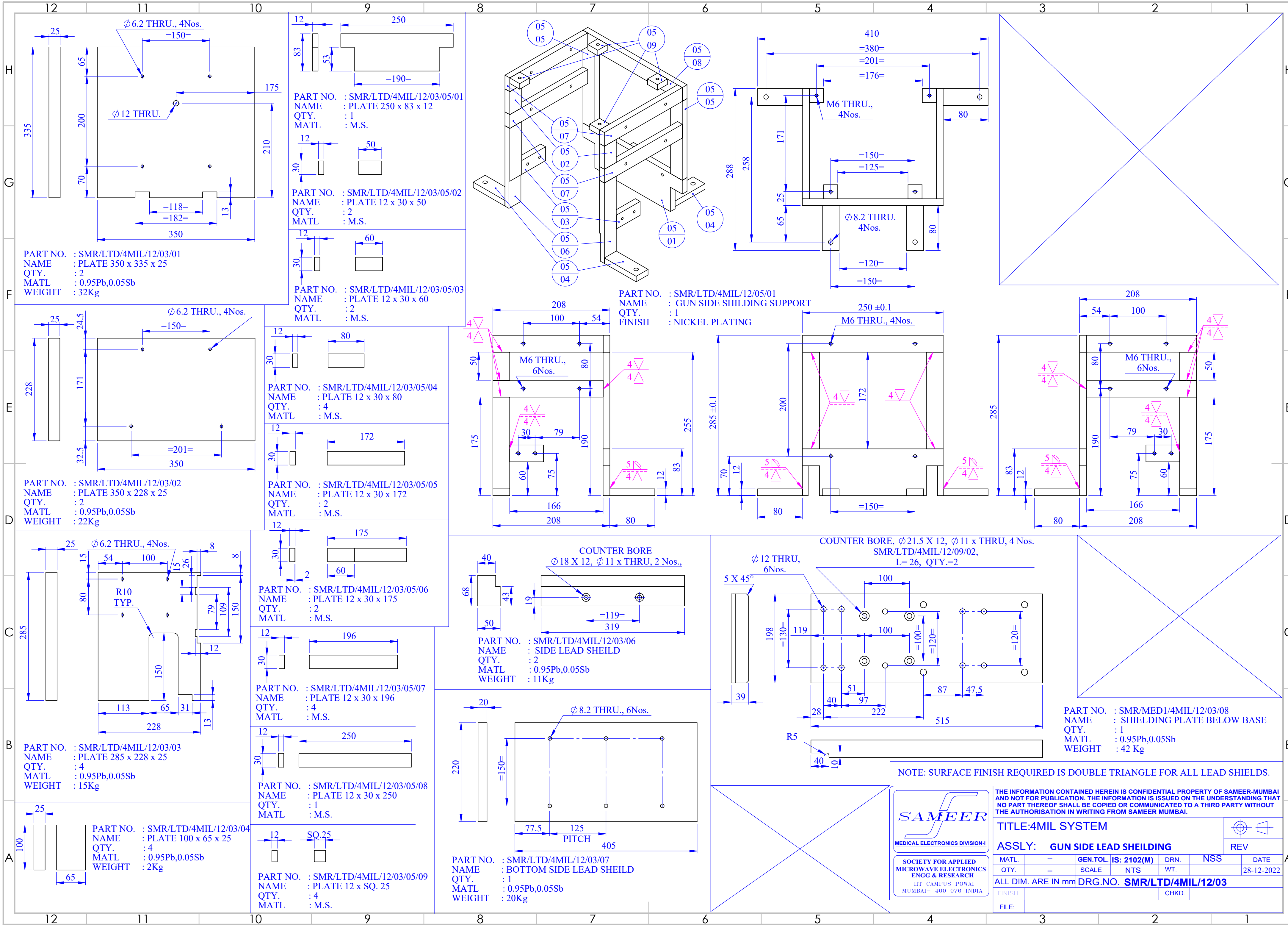
3. The orders quoted above are available on our website
(<https://www.sameer.gov.in/tenders.asp#page>).

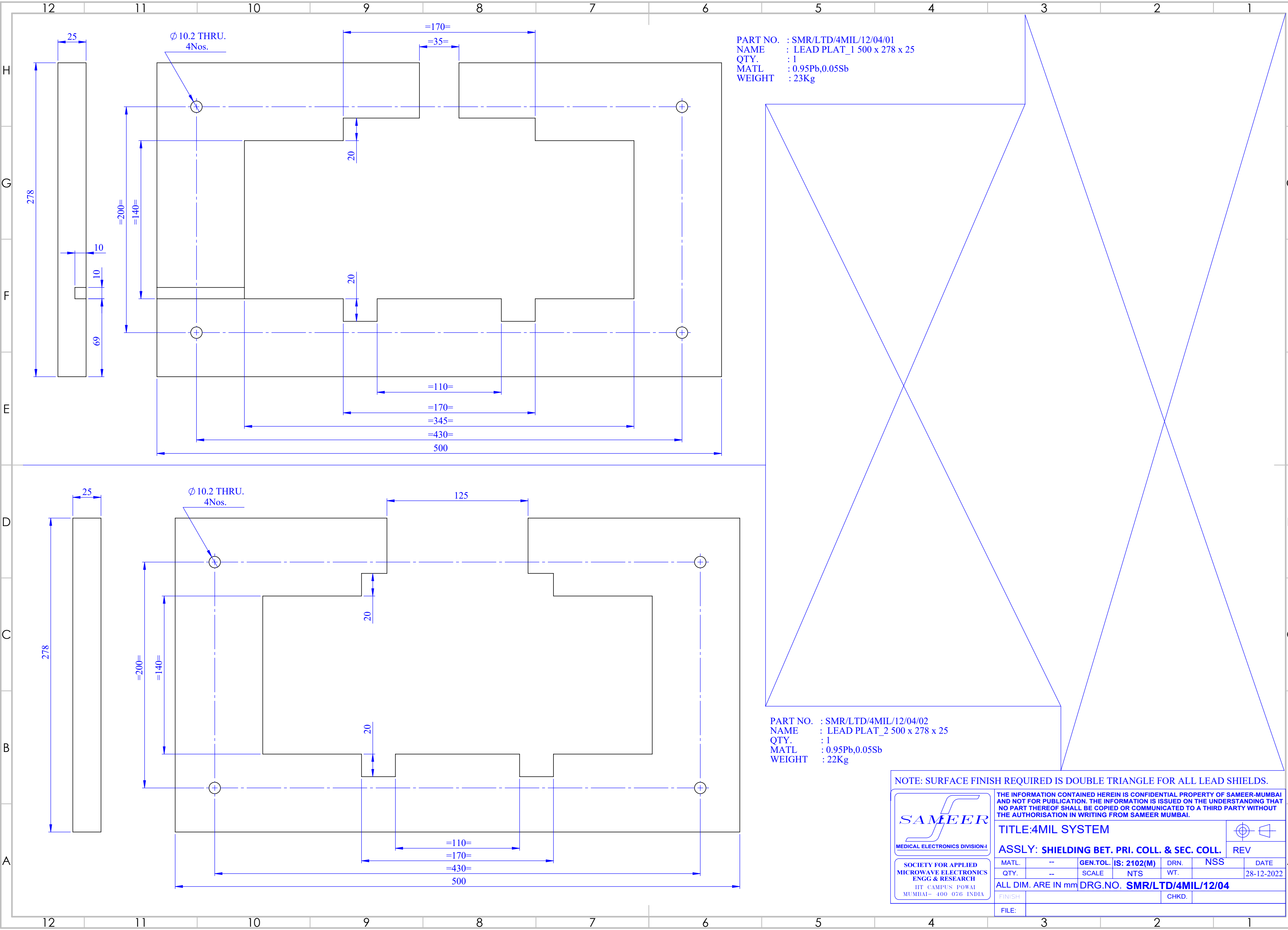
ANNEXURE FOR LEAD SHIELDING AND BALANCING WEIGHT											
LINAC YOKE											
Annexure-I											
Sr. No.	Drawing Sheet No.	Drawing No.	Name of Part	ISERTS	MATERIAL	QTY.	SIZE	FINISH	Weight		
LINAC LEAD SHIELDING_1											
1	SMR/LTD/4MIL/12/01	SMR/LTD/4MIL/12/01/01	LEAD SHIELDING BOTTOM, PUNCH B1	09/01, Q.2	0.95Pb,0.05Sb	1	68 x 160 x 400, 38 Kg		38		
2		SMR/LTD/4MIL/12/01/02	LEAD SHIELDING BOTTOM_2, PUNCH B2	09/04, L.59, Q.2		1	61 x 160 x 400, 37 Kg		37		
3		SMR/LTD/4MIL/12/01/03	LEAD SHIELDING BOTTOM_3, PUNCH B3, B4	09/05, L.54, Q.2		2	50 x 160 x 400, 25 Kg		50		
4		SMR/LTD/4MIL/12/01/04	LEAD SHIELDING SPACER_1	09/01, Q.2		1	61 x 125 x 168, 18 Kg		18		
5		SMR/LTD/4MIL/12/01/05	LEAD SHIELDING SPACER_2	09/05, L.47, Q.2		1	61 x 125 x 168, 12 Kg		12		
6		SMR/LTD/4MIL/12/01/06	LEAD SHIELDING TOP_1, PUNCH T1	09/01, Q.4		1	30 x R200, 14Kg		22		
7		SMR/LTD/4MIL/12/01/07	LEAD SHIELDING TOP_2, PUNCH T2	09/05, L.36, Q.4		1	38 x R200, 29Kg		29		
8		SMR/LTD/4MIL/12/01/08	LEAD SHIELDING TOP_3, PUNCH T3,T4	09/06, L.61, Q.2		2	25 x R180, 10Kg		20		
9		SMR/LTD/4MIL/12/01/09	LEAD SHIELDING TOP_3, PUNCH T5,T6	09/03, L.30, Q.2		2	25 x R180, 14Kg		28		
			M6 x 70		ALLEN HEAD 12.9 GRADE	4		NICKEL PLATING			
			M8 x 20			4					
			M8 x 40			2					
			M8 x 55			8					
			M8 x 70			4					
			M8 x 80			2					
			M10 x 100			4					
			M10 x 180			6					
			M10 x 200			6					
			M12 x 55			2					
			M12 x 120			8					
			M6 PLAIN WASHER		SS304	6					
			M6 SPRING WASHER			6					
			M8 PLAIN WASHER			22					
			M8 SPRING WASHER			22					
			M10 PLAIN WASHER			20					
			M10 SPRING WASHER			20					
			M12 PLAIN WASHER			10					
			M12 SPRING WASHER			10					
LINAC LEAD SHIELDING_2											
10		SMR/MED1/4MIL/12/02	SMR/MED1/4MIL/12/02/01	LEAD SHIELDING FRONT_1, PUNCH T7	09/02, L.11.5, Q.6	0.95Pb,0.05Sb	1	23.5 x Ø400, 34Kg		34	
11	SMR/MED1/4MIL/12/02/02		LEAD SHIELDING FRONT_2, PUNCH T8	09/04, L.14.5, Q.2	1		23.5 x Ø400, 31Kg	31			
12	SMR/MED1/4MIL/12/02/03		LEAD SHIELDING FRONT_3, PUNCH T9	09/03, L.23.5, Q.4	1		23.5 x Ø400, 31Kg	31			
13	SMR/MED1/4MIL/12/02/04		LEAD SHIELDING FRONT_4, PUNCH T10	09/02, L.11.5, Q.4	1		23.5 x Ø400, 31Kg				
14	SMR/MED1/4MIL/12/02/05		LEAD SHIELDING FRONT_5, PUNCH T11	09/04, L.14.5, Q.4	1		23.5 x 298 x 317, 23Kg	23			
15	SMR/MED1/4MIL/12/02/06		WINDOW COVER LEAD SHEILD_1	09/03, L.23.5, Q.4	1		23.5 x 298 x 317, 23Kg	23			
16	SMR/MED1/4MIL/12/02/07		WINDOW COVER LEAD SHEILD_2		1		62 x 161 x 167, 8Kg	8			
17	SMR/MED1/4MIL/12/02/08		PLUG		2		63 x 161 x 167, 8Kg	8			
18	SMR/MED1/4MIL/12/02/09		PLATE 3 x Ø285		6		55 x Ø23, 0.2 Kg	1.2			
					M.S.	1	3 x Ø285	POWDER COATING SIEMENS GRAY			
GUN SIDE LEAD SHIELDING											
17	SMR/MED1/4MIL/12/03	SMR/MED1/4MIL/12/03/01	PLATE 350 x 335 x 25		0.95Pb,0.05Sb	2	350 x 335 x 25, 32Kg		64		
18		SMR/MED1/4MIL/12/03/02	PLATE 350 x 228 x 25			2	350 x 228 x 25, 22Kg		44		
19		SMR/MED1/4MIL/12/03/03	PLATE 285 x 228 x 25			4	285 x 228 x 25, 15Kg		60		
20		SMR/MED1/4MIL/12/03/04	PLATE 100 x 65 x 25			4	100 x 65 x 25, 2Kg		8		
21		SMR/MED1/4MIL/12/03/05	GUN SIDE SHILDING SUPPORT		M.S.	1	285 x 288 x 410	NICKEL PLATING			
22		SMR/MED1/4MIL/12/03/05/01	PLATE 250 x 83 x 12		M.S.	1	250 x 83 x 12				
23		SMR/MED1/4MIL/12/03/05/02	PLATE 12 x 30 x 50			2	12 x 30 x 50				
24		SMR/MED1/4MIL/12/03/05/03	PLATE 12 x 30 x 60			2	13 x 30 x 60				
25		SMR/MED1/4MIL/12/03/05/04	PLATE 12 x 30 x 80			4	14 x 30 x 80				
26		SMR/MED1/4MIL/12/03/05/05	PLATE 12 x 30 x 172			2	15 x 30 x 172				
27		SMR/MED1/4MIL/12/03/05/06	PLATE 12 x 30 x 175			2	16 x 30 x 175				
28		SMR/MED1/4MIL/12/03/05/07	PLATE 12 x 30 x 196			4	17 x 30 x 196				
29		SMR/MED1/4MIL/12/03/05/08	PLATE 12 x 30 x 250			1	18 x 30 x 250				
30		SMR/MED1/4MIL/12/03/05/09	PLATE 12 x SQ. 25			4	PLATE 12 x SQ. 25				
31		SMR/MED1/4MIL/12/03/06	SIDE LEAD SHEILD		0.95Pb,0.05Sb	2	50 x 68 x 319, 11Kg	22			
32		SMR/MED1/4MIL/12/03/07	BOTTOM SIDE LEAD SHEILD			1	20 x 220 x 405, 20Kg	20			
33		SMR/MED1/4MIL/12/03/08	SHIELDING PLATE BELOW BASE	09/02, L.26, Q.4		1	515 x 198 x 39, 42 Kg	42			
SHIELDING BETWEEN PRIMARY COLLIMATOR AND SECONDARAY COLLIMATOR											
34		SMR/MED1/4MIL/12/04	SMR/MED1/4MIL/12/04/01	LEAD PLAT_1 500 x 278 x 25		0.95Pb,0.05Sb	1	500 x 278 x 25, 23Kg		23	
35			SMR/MED1/4MIL/12/04/02	LEAD PLAT_2 500 x 278 x 25			1	500 x 278 x 25, 22Kg		22	
36		SMR/MED1/4MIL/12/05	SMR/MED1/4MIL/12/05/01	LEAD PLAT_3 500 x 278 x 25		0.95Pb,0.05Sb	1	500 x 278 x 25, 26Kg		26	
37	SMR/MED1/4MIL/12/05/02		WASHER_1 500 x 278 x 6		M.S.	1	500 x 278 x 6	POWDER COATING SIEMENS GRAY			
38	SMR/MED1/4MIL/12/06	SMR/MED1/4MIL/12/06/01	LEAD PLAT_4 500 x 278 x 25		0.95Pb,0.05Sb	1	500 x 278 x 25, 22Kg		22		
39		SMR/MED1/4MIL/12/06/02	LEAD PLAT_5 500 x 278 x 25			1	500 x 278 x 25, 22Kg		22		
40		SMR/MED1/4MIL/12/06/03	COVER_1		Al	1	556 x 156 x 1.2 THK	POWDER COATING SKY BLUE			
41	SMR/MED1/4MIL/12/07	SMR/MED1/4MIL/12/07/01	LEAD PLAT_6 500 x 278 x 25		0.95Pb,0.05Sb	1	500 x 278 x 25, 26Kg		26		
42		SMR/MED1/4MIL/12/07/02	WASHER_2 500 x 278 x 6		M.S.	1	500 x 278 x 25	POWDER COATING SIEMENS GRAY			
43		SMR/MED1/4MIL/12/07/03	COVER_2		Al	1	379 x 91 x 1.2 THK	POWDER COATING SKY BLUE			
LEAD BALANCING											
44	SMR/MED1/4MIL/12/08	SMR/MED1/4MIL/12/08/01	BALANCING WEIGHT FROM REAR SIDE		0.95Pb,0.05Sb	12	15 x 80 x 285, 5 Kg		60		
45		SMR/MED1/4MIL/12/08/02	PLATE 4 x 80 x 285		M.S.	2	4 x 80 x 285				
46		SMR/MED1/4MIL/12/08/03	BALANCING WEIGHT FROM BOTTOM SIDE		0.95Pb,0.05Sb	4	25 x 210 x 400, 23Kg		92		
47		SMR/MED1/4MIL/12/08/04	BALANCING WEIGHT FROM BOTTOM SIDE_1		0.95Pb,0.05Sb	24	25 x 210 x 400, 23Kg		552		
48		SMR/MED1/4MIL/12/08/05	PLATE 4 x 210 x 400		M.S.	4	25 x 210 x 400		POWDER COATING SIEMENS GRAY		
49		SMR/MED1/4MIL/12/08/06	BALANCING WEIGHT FROM TOP SIDE		0.95Pb,0.05Sb	1	50 x 130 x 500, 34Kg		34		
50		SMR/MED1/4MIL/12/08/07	BALANCING WEIGHT FROM TOP SIDE_1		0.95Pb,0.05Sb	10	25 x 130 x 500, 18Kg		180		
51		SMR/MED1/4MIL/12/08/08	PLATE 4 x 130 x 500		M.S.	1	PLATE 4 x 130 x 500		POWDER COATING SIEMENS GRAY		
52		SMR/MED1/4MIL/12/08/09	PULSE TRAQNSFORMER BASE_1		0.95Pb,0.05Sb	1	25 x 300 x 500, 41Kg		41		
53		SMR/MED1/4MIL/12/08/10	PULSE TRAQNSFORMER BASE_2		0.95Pb,0.05Sb	4	25 x 300 x 500, 41Kg		164		
SHIELDING INSERT & CLAMP											
54		SMR/MED1/4MIL/12/09/01	SMR/MED1/4MIL/12/09/01	SHIELDING INSERT_1		M.S.	12		Ø24 x 102		
55	SMR/MED1/4MIL/12/09/02		SHIELDING INSERT_2, L=11.5		M.S.	16	Ø21.5 x 23.5				

LINAC YOKE								
Annexure-I								
Sr. No.	Drawing Sheet No.	Drawing No.	Name of Part	ISERTS	MATERIAL	QTY.	SIZE	FINISH
56	SMR/MED1/4MIL/12/09	SMR/MED1/4MIL/12/09/02	SHIELDING INSERT _2, L=26		M.S.	8	Ø21.5 x 40	NICKEL PLATING
57		SMR/MED1/4MIL/12/09/03	SHIELDING INSERT _3, L=23.5		M.S.	16	Ø10.2 x 23.5	
59			SHIELDING INSERT _3, L=30		M.S.	4	Ø10.2 x 30	
60		SMR/MED1/4MIL/12/09/04	SHIELDING INSERT _4, L=14.5		M.S.	10	HEX. 21.5 x 23.5	
61			SHIELDING INSERT _4, L=21		M.S.	4	HEX. 21.5 x 33	
			SHIELDING INSERT _4, L=29		M.S.	4	HEX. 21.5 x 37	
62			SHIELDING INSERT _4, L=59		M.S.	4	HEX. 21.5 x 37	
63		SMR/MED1/4MIL/12/09/05	SHIELDING INSERT _5, L= 26		M.S.	8	HEX. 24 x 38	
			SHIELDING INSERT _5, L= 36		M.S.	8	HEX. 24 x 38	
			SHIELDING INSERT _5, L= 47		M.S.	4	HEX. 24 x 38	
64			SHIELDING INSERT _5, L= 54		M.S.	4	HEX. 24 x 50	
65		SMR/MED1/4MIL/12/09/06	SHIELDING INSERT _6, L= 61		M.S.	8	Ø13 x 61	
66			SHIELDING INSERT _6, L= 25		M.S.	20	Ø13 x 25	
67		SMR/MED1/4MIL/12/09/07	STUD M12 x 140		M.S.	16	STUD M12 x 140	
68		SMR/MED1/4MIL/12/09/08	STUD M12 x 350		M.S.	2	STUD M12 x 350	
69		SMR/MED1/4MIL/12/09/09	PLATE 6 x 30 x 140		M.S.	2	PLATE 6 x 30 x 140	
70	SMR/MED1/4MIL/12/10	SMR/MED1/4MIL/12/10	BALANCING WEIGHT SUPPORTING STRUCTURE		M.S.	1	842 x 375 x 167	POWDER COATING GRAY
71		SMR/MED1/4MIL/12/10/01	PLATE 742 x 142 x 6		M.S.	1	742 x 142 x 6	
72		SMR/MED1/4MIL/12/10/02	L CHANNEL 50 x 50 x 842		M.S.	2	50 x 50 x 842	
73		SMR/MED1/4MIL/12/10/03	L CHANNEL 50 x 50 x 242		M.S.	2	50 x 50 x 242	
74		SMR/MED1/4MIL/12/10/04	PLATE 12 x 50 x 375		M.S.	3	12 x 50 x 375	
75		SMR/MED1/4MIL/12/10/05	PLATE 6 x 50 x 105		M.S.	4	6 x 50 x 105	
76		SMR/MED1/4MIL/12/10/06	COVER 1163 x 403 x 1THK.		M.S.	1	1163 x 403 x 1THK.	POWDER COATING SIEMENS GRAY
Approximate Total Weight Kg								1937.2

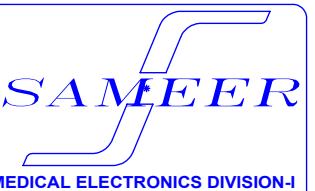
1. Party should give test certificate for lead composition form government recognized lab.
(5% Antimony should be with in ±1%).
2. Density of lead material should be 11.3gm/cc.
3. The lead material should be free from any bare hole and casting defects.
4. Sample from the cast material should be tested for density and demonstrate before delivery.





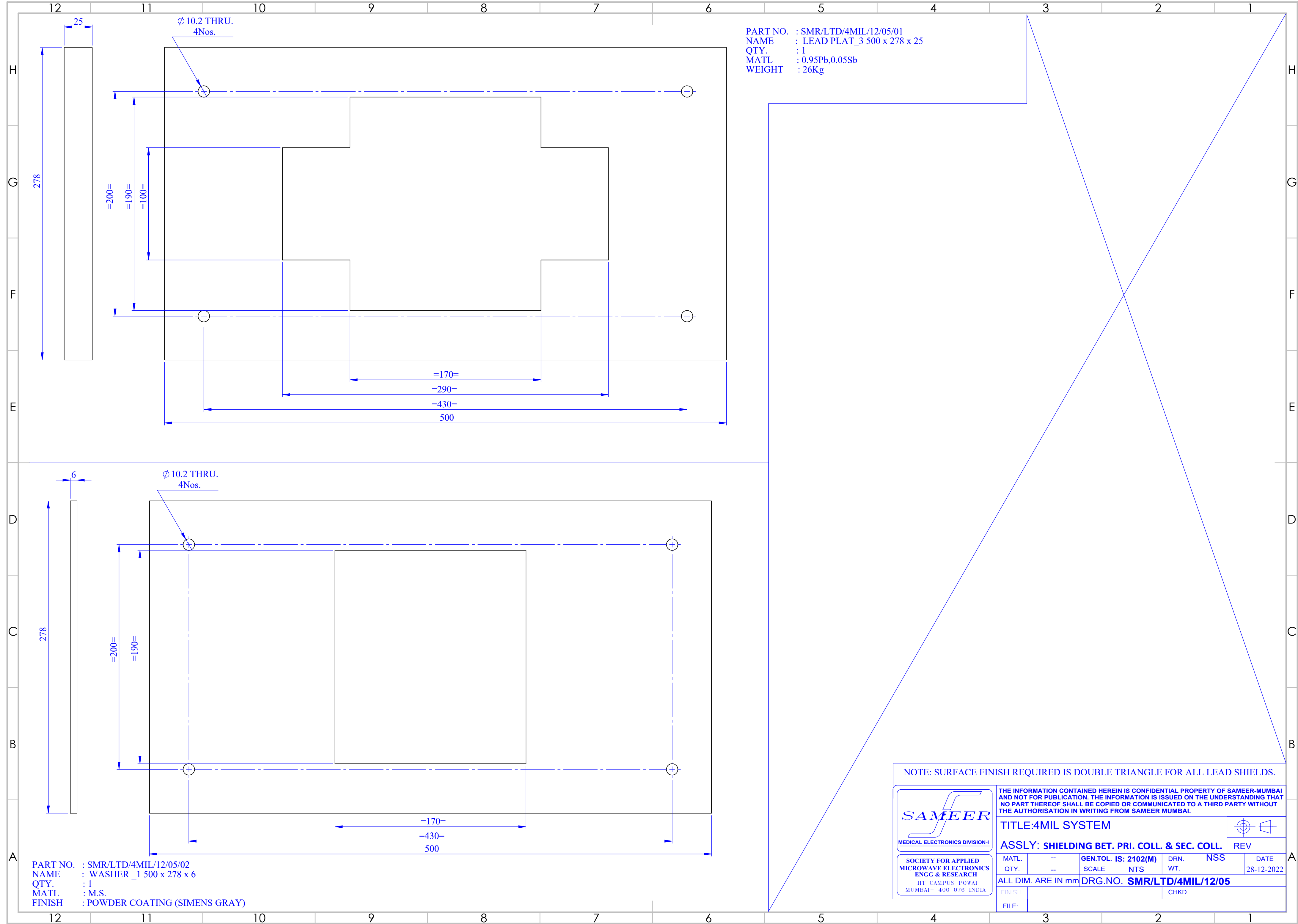


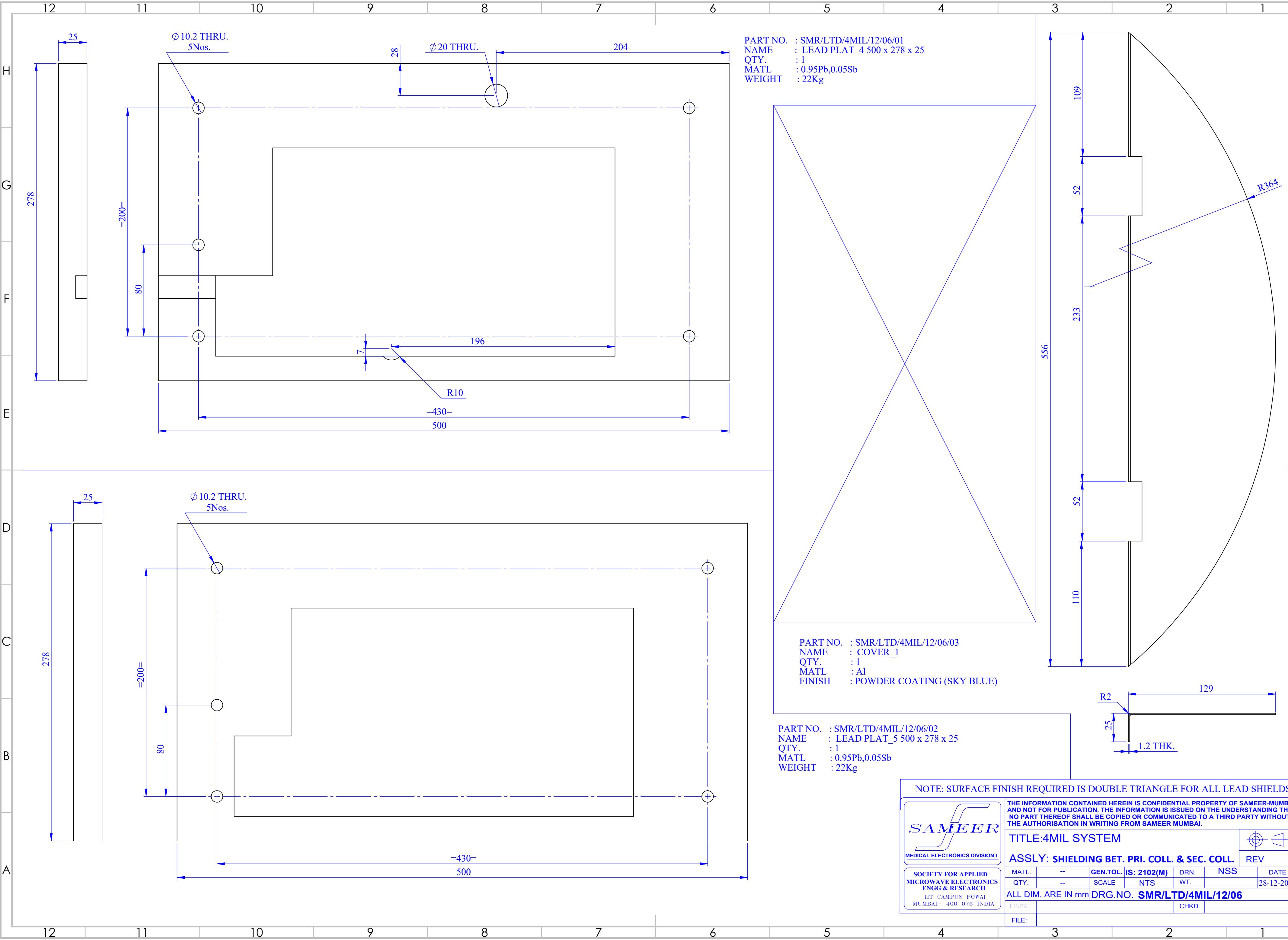
NOTE: SURFACE FINISH REQUIRED IS DOUBLE TRIANGLE FOR ALL LEAD SHIELDS.



SOCIETY FOR APPLIED
MICROWAVE ELECTRONICS
ENGG & RESEARCH
IIT CAMPUS POWAI
MUMBAI- 400 076 INDIA

THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.					
TITLE:4MIL SYSTEM					
ASSLY: SHIELDING BET. PRI. COLL. & SEC. COLL.					
MATL.	--	GEN.TOL.	IS: 2102(M)	DRN.	NSS
QTY.	--	SCALE	NTS	WT.	
ALL DIM. ARE IN mm					
DRG.NO. SMR/LTD/4MIL/12/04				REV	
FINISH				CHKD.	
FILE:					





NOTE: SURFACE FINISH REQUIRED IS DOUBLE TRIANGLE FOR ALL LEAD SHIELDS.

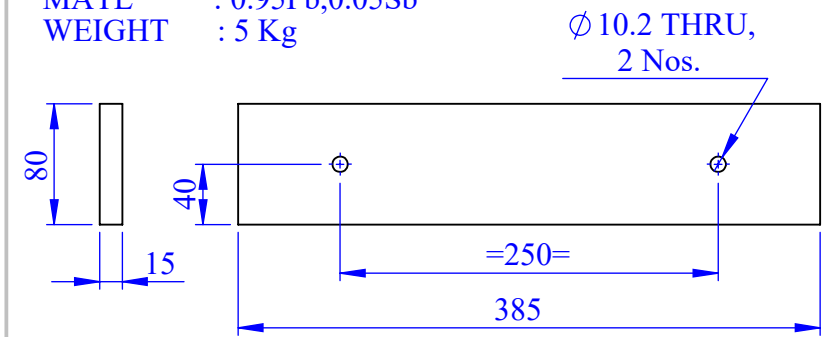


SOCIETY FOR APPLIED
MICROWAVE ELECTRONICS
ENGG & RESEARCH
IIT CAMPUS POWAI
MUMBAI- 400 076 INDIA

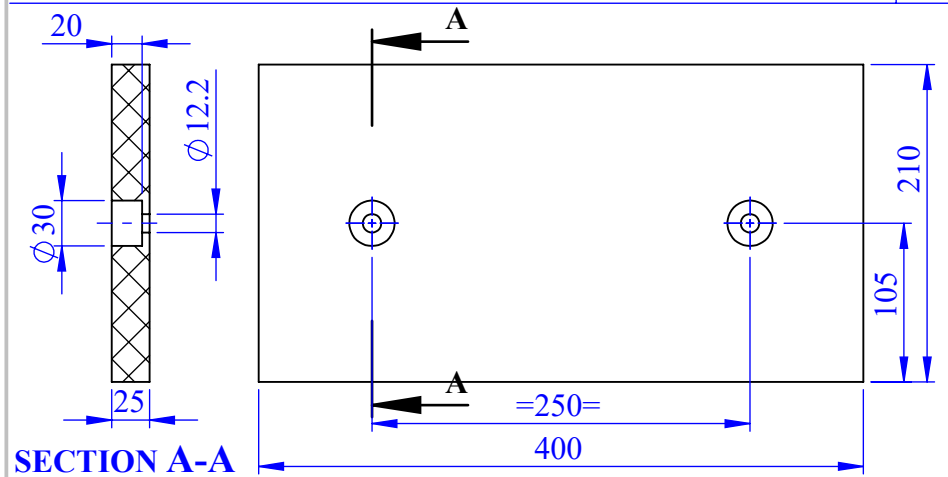
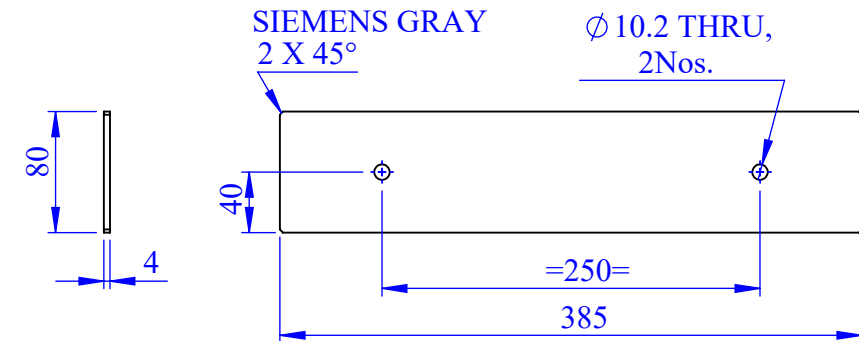
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.

TITLE:4MIL SYSTEM							
ASSLY: SHIELDING BET. PRI. COLL. & SEC. COLL.						REV	
MATL.	--	GEN.TOL.	IS: 2102(M)	DRN.	NSS	DATE	
QTY.	--	SCALE	NTS	WT.		28-12-2022	
ALL DIM. ARE IN mm DRG.NO. SMR/LTD/4MIL/12/06							
FINISH					CHKD.		
FILE:							

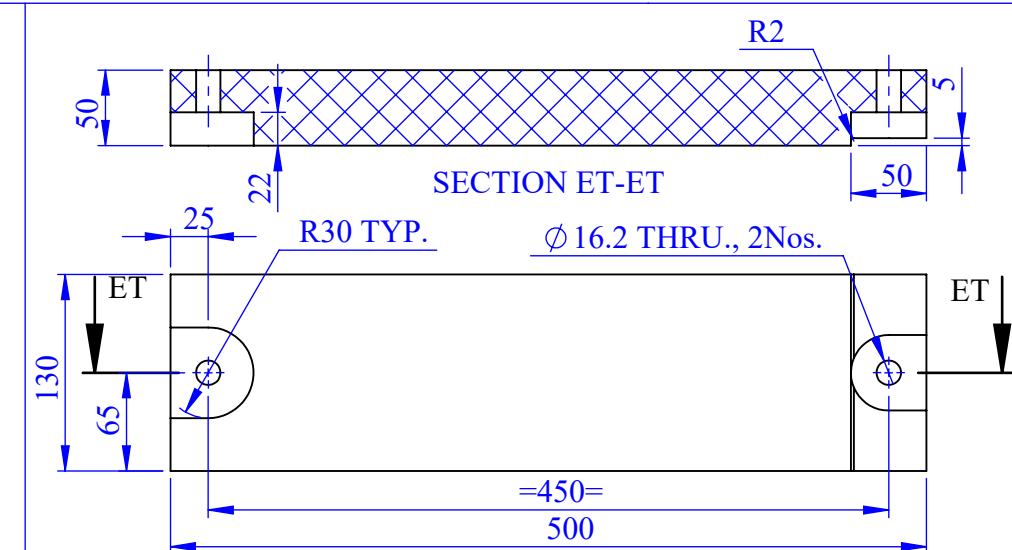
PART NO. : SMR/LTD/4MIL/12/08/01
NAME : BALANCING WEIGHT FROM REAR SIDE
QTY. : 12
MATL : 0.95Pb,0.05Sb
WEIGHT : 5 Kg



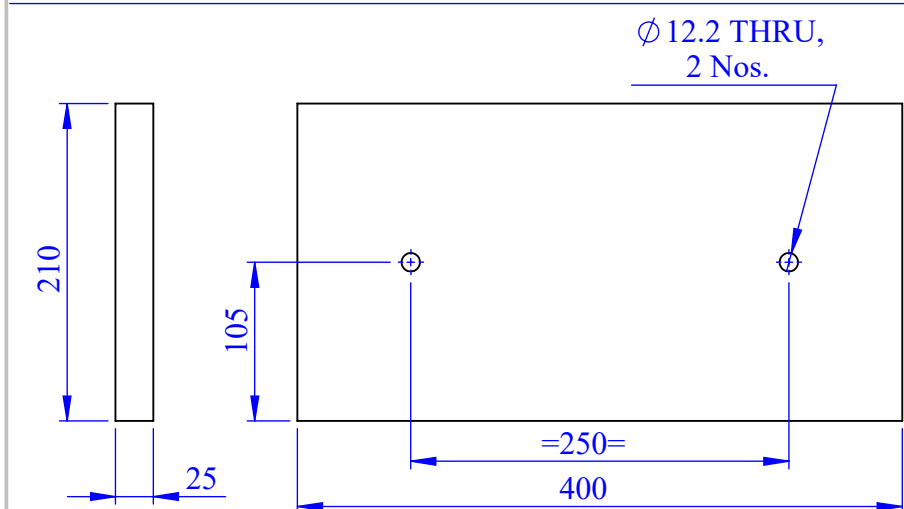
PART NO. : SMR/LTD/4MIL/12/08/02
NAME : PLATE 4 x 80 x 285
QTY. : 2
MATL : M.S.
FINISH : POWDER COATING SIEMENS GRAY



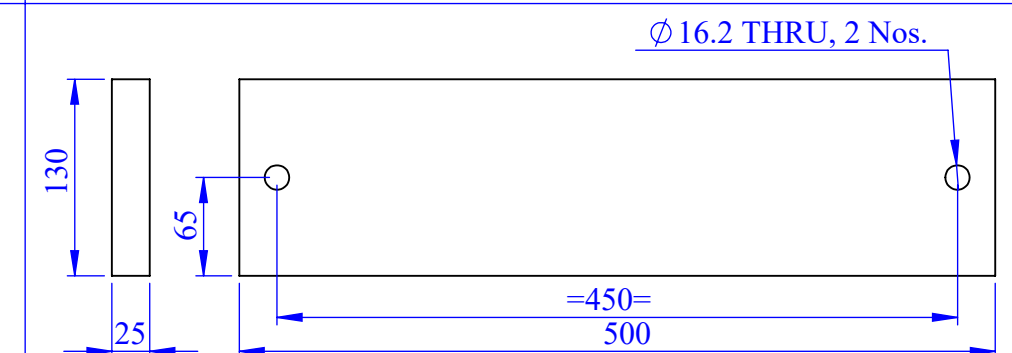
PART NO. : SMR/LTD/4MIL/12/08/03
NAME : BALANCING WEIGHT FROM BOTTOM SIDE
QTY. : 4
MATL : 0.95Pb,0.05Sb
WEIGHT : 23Kg



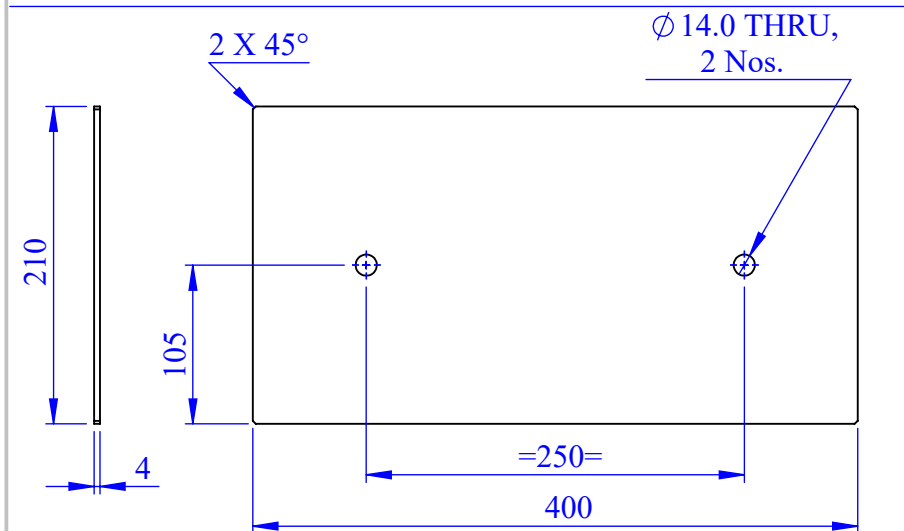
PART NO. : SMR/LTD/4MIL/12/08/06
NAME : BALANCING WEIGHT FROM TOP SIDE
QTY. : 1
MATL : 0.95Pb,0.05Sb
WEIGHT : 34Kg



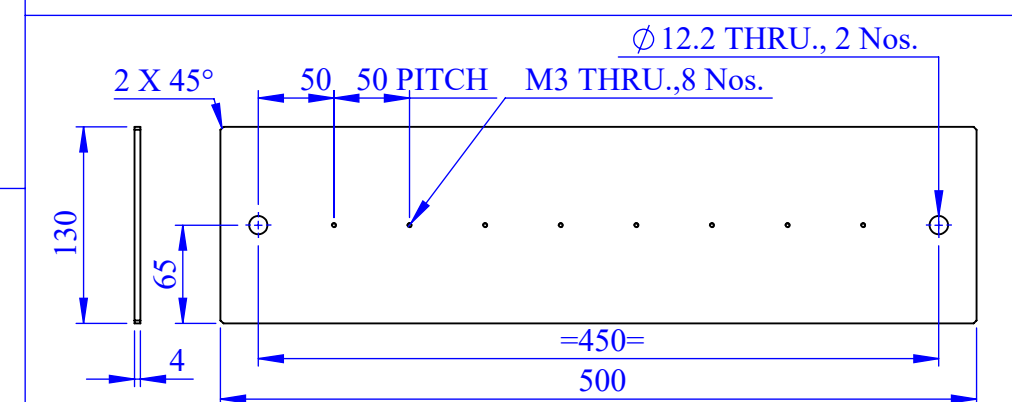
PART NO. : SMR/LTD/4MIL/12/08/04
NAME : BALANCING WEIGHT FROM BOTTOM SIDE_1
QTY. : 12
MATL : 0.95Pb,0.05Sb
WEIGHT : 23Kg



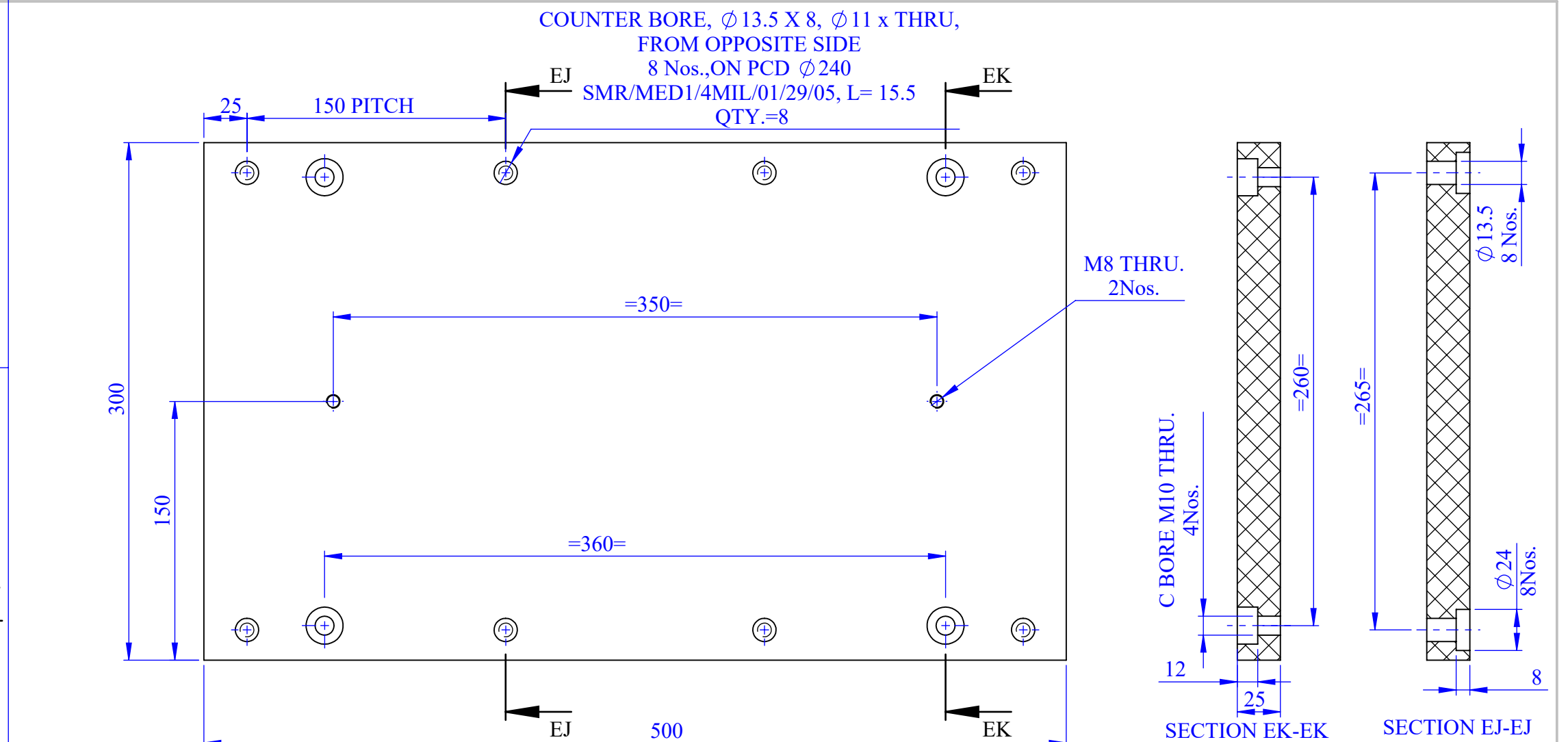
PART NO. : SMR/LTD/4MIL/12/08/07
NAME : BALANCING WEIGHT FROM TOP SIDE_1
QTY. : 10
MATL : 0.95Pb,0.05Sb



PART NO. : SMR/LTD/4MIL/12/08/05
NAME : PLATE 4 x 210 x 400
QTY. : 4
MATL : M.S.
FINISH : POWDER COATING SIEMENS GRAY

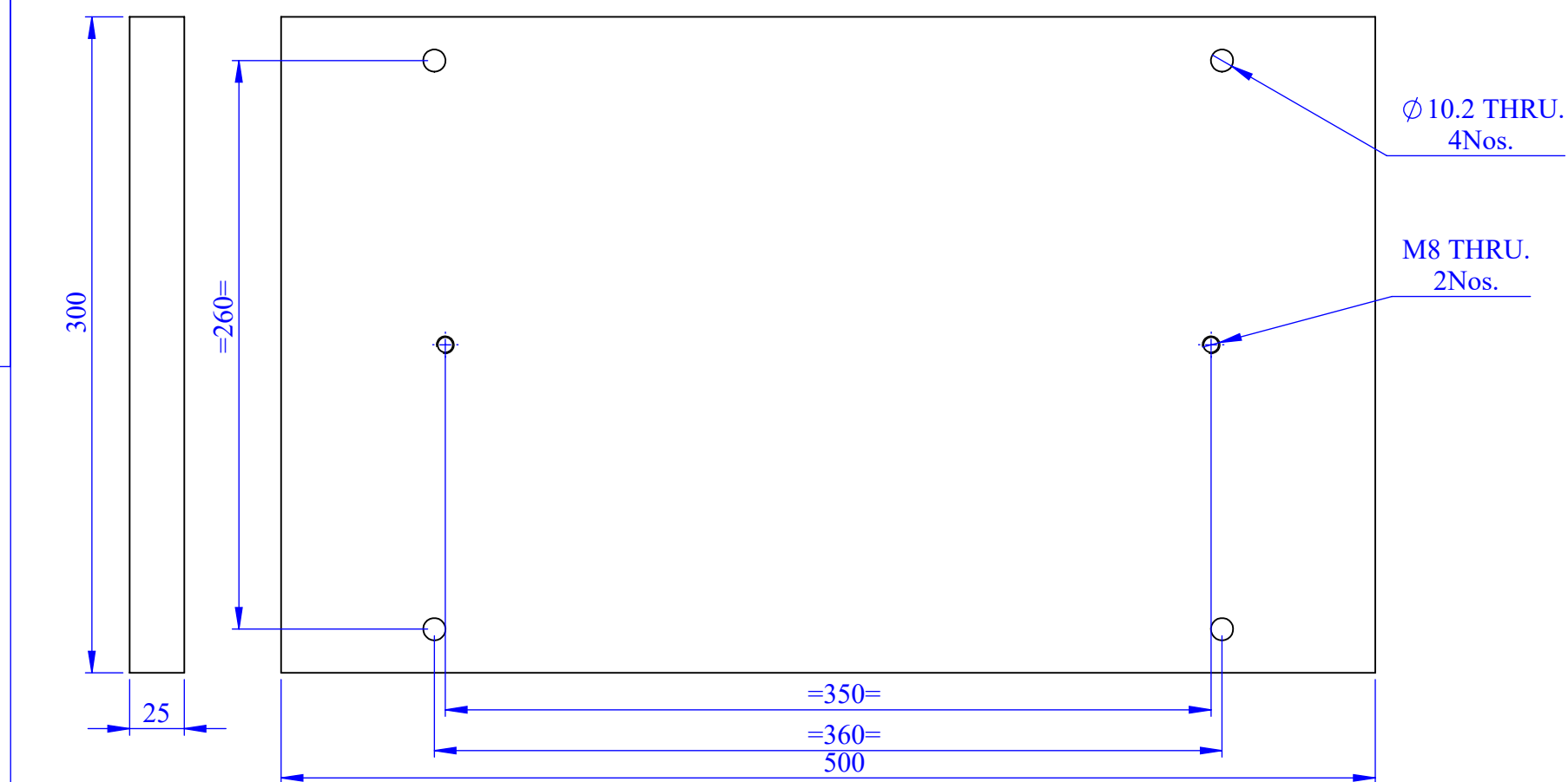


PART NO. : SMR/LTD/4MIL/12/08/08
NAME : PLATE 4 x 130 x 500
QTY. : 1
MATL : M.S.
FINISH : POWDER COATING SIEMENS GRAY

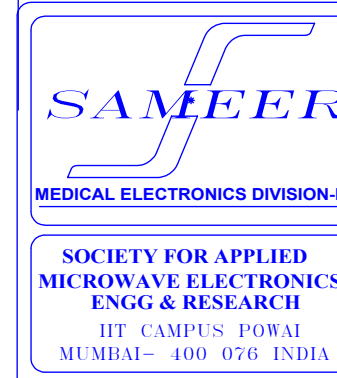


PART NUMBER :SMR/LTD/4MIL/12/08/09
PART NAME : PULSE TRAQNSFORMER BASE_1
MATL : 0.95Pb,0.05Sb
QTY :1
WEIGHT : 41Kg

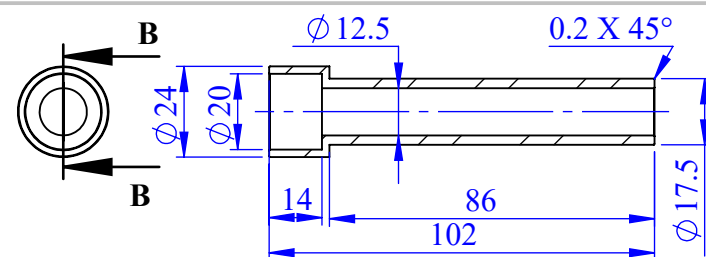
PART NUMBER : SMR/LTD/4MIL/12/08/10
PART NAME : PULSE TRAQNSFORMER BASE_2
MATL : 0.95Pb,0.05Sb
QTY : 4
WEIGHT : 41Kg



NOTE: SURFACE FINISH REQUIRED IS DOUBLE TRIANGLE FOR ALL LEAD SHIELDS.

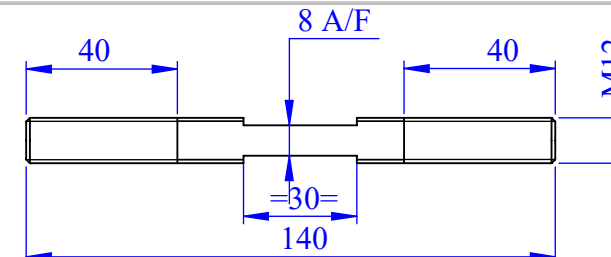


THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.					
TITLE:4MIL SYSTEM					REV
ASSLY:LEAD BALANCING					
MATL.	0.95Pb,0.05Sb	GEN.TOL.	IS: 2102(M)	DRN.	NSS
QTY.	--	SCALE	NTS	WT.	22-12-22
ALL DIM. ARE IN mm					
DRG.NO. SMR/LTD/4MIL/12/08				CHKD.	
FILE:					

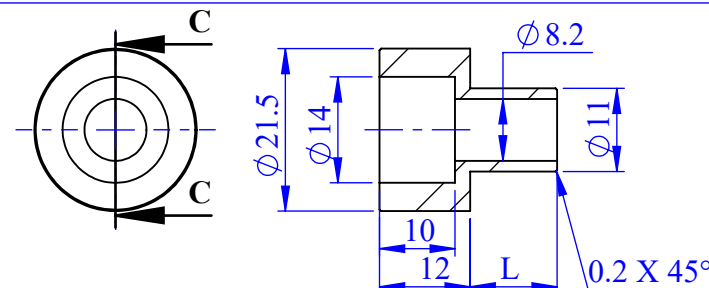


SECTION B-B

PART NO. : SMR/LTD/4MIL/12/09/01
NAME : SHIELDING INSERT_1
QTY. : 12
MATL : M.S.
FINISH : NICKEL PLATING

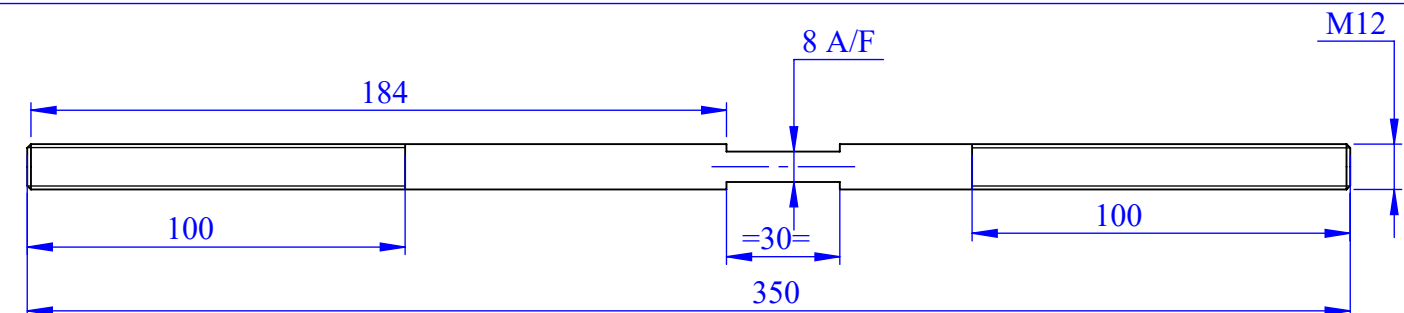


PART NO. : SMR/LTD/4MIL/12/09/07
NAME : STUD M12 x 140
QTY. : 16
MATL : M.S.
FINISH : NICKEL PLATING

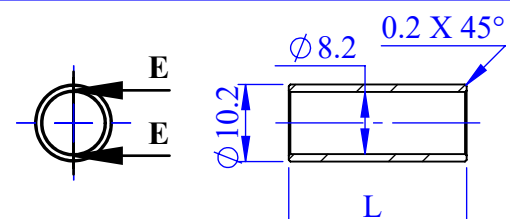


SECTION C-C

PART NO. : SMR/LTD/4MIL/12/09/02
NAME : SHIELDING INSERT_2
L = 11.5 QTY. : 16
L = 26 QTY. : 8
MATL : M.S.
FINISH : NICKEL PLATING

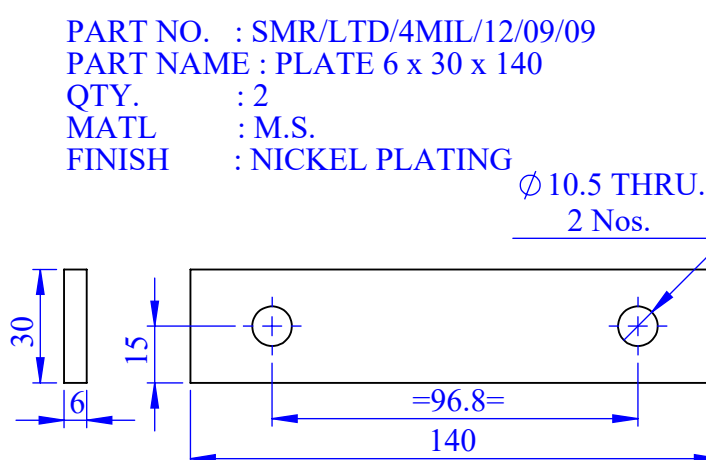


PART NO. : SMR/LTD/4MIL/12/09/08
NAME : STUD M12 x 350
QTY. : 2
MATL : M.S.
FINISH : NICKEL PLATING

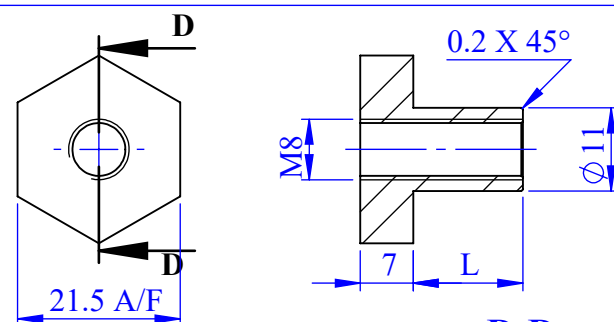


SECTION E-E

PART NO. : SMR/LTD/4MIL/12/09/03
NAME : SHIELDING INSERT_3
L = 23.5 QTY. : 16
L = 30 QTY. : 4
MATL : M.S.
FINISH : NICKEL PLATING

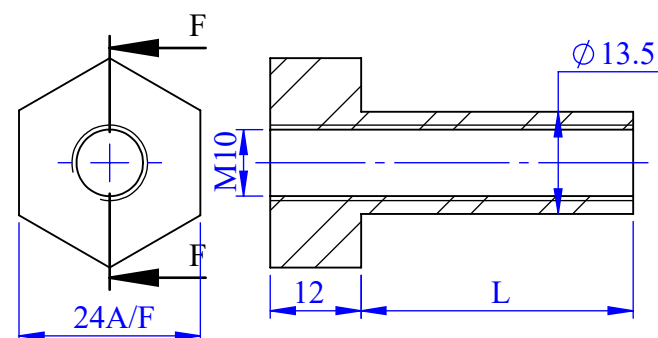


PART NO. : SMR/LTD/4MIL/12/09/09
PART NAME : PLATE 6 x 30 x 140
QTY. : 2
MATL : M.S.
FINISH : NICKEL PLATING



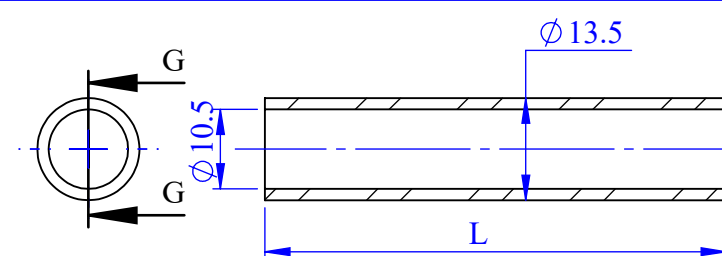
SECTION D-D

PART NO. : SMR/LTD/4MIL/12/09/04
NAME : SHIELDING INSERT_4
L = 14.5 QTY. : 10
L = 21 QTY. : 4
L = 29 QTY. : 4
L = 59 QTY. : 4
MATL : M.S.
FINISH : NICKEL PLATING



SECTION F-F

PART NO. : SMR/LTD/4MIL/12/09/05
NAME : SHIELDING INSERT_5
L = 26 QTY. : 8
L = 36 QTY. : 8
L = 47 QTY. : 4
L = 54 QTY. : 4
MATL : M.S.
FINISH : NICKEL PLATING



SECTION G-G

PART NO. : SMR/LTD/4MIL/12/09/06
NAME : SHIELDING INSERT_6
L = 61 QTY. : 8
L = 25 QTY. : 20
MATL : M.S.
FINISH : NICKEL PLATING

NOTE: ALL INSERT MUST PRESS FITTED IN SHEILDING AS SPECIFIED.



THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.

TITLE:4MIL SYSTEM

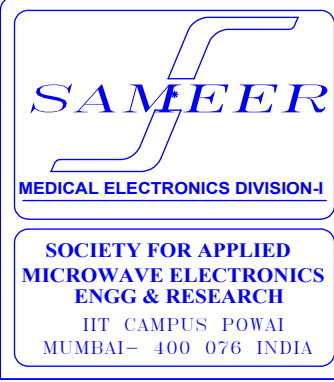
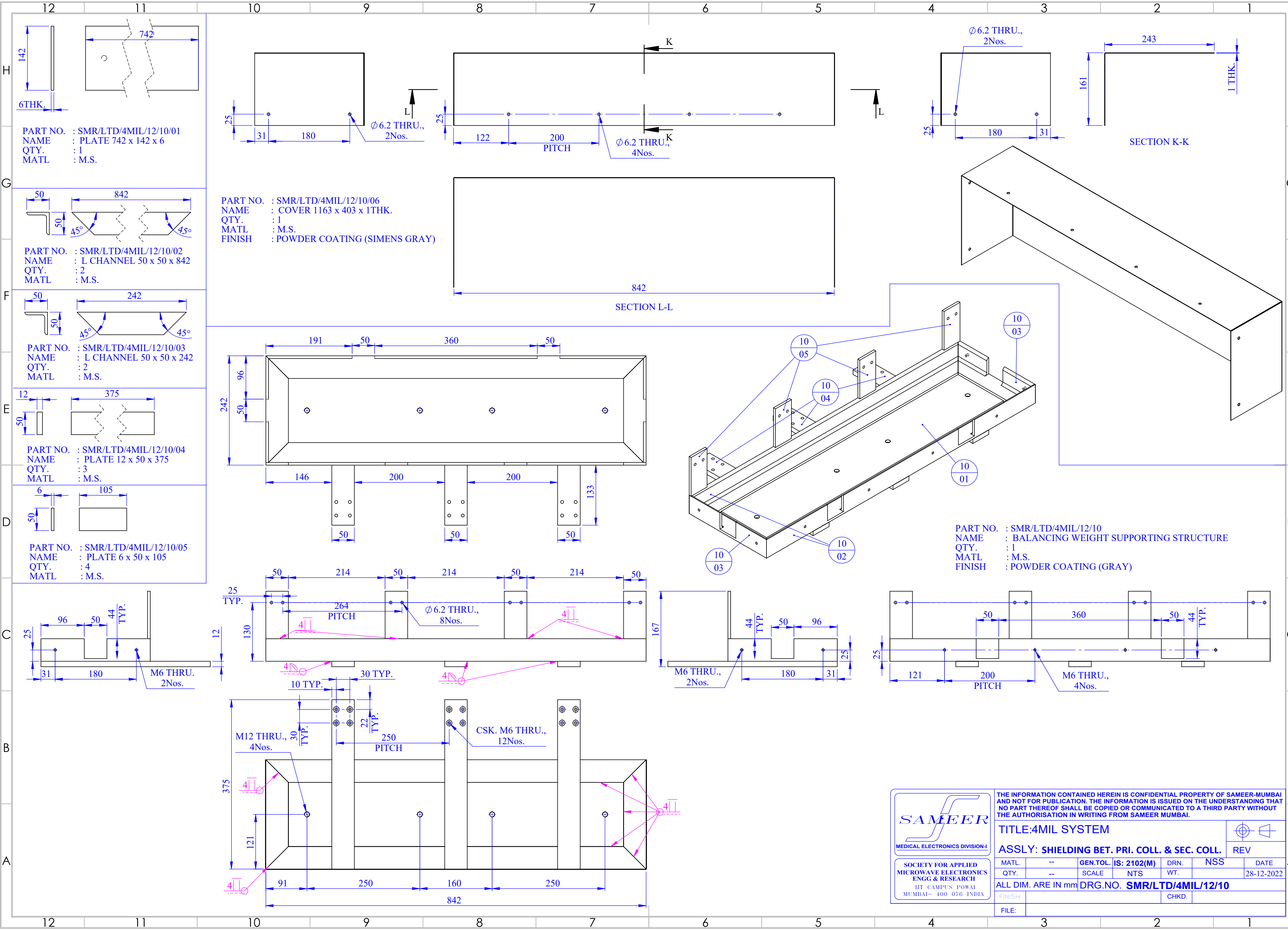
ASSLY:SHEILDING INSERT AND CLAMP

MATL.	IS2062	GEN.TOL.	IS: 2102(M)	DRN.	NSS	DATE
QTY.	--	SCALE	NTS	WT.		28-12-22

ALL DIM. ARE IN mm DRG.NO. SMR/MED1/4MIL/12/09

FINISH		CHKD.	
--------	--	-------	--

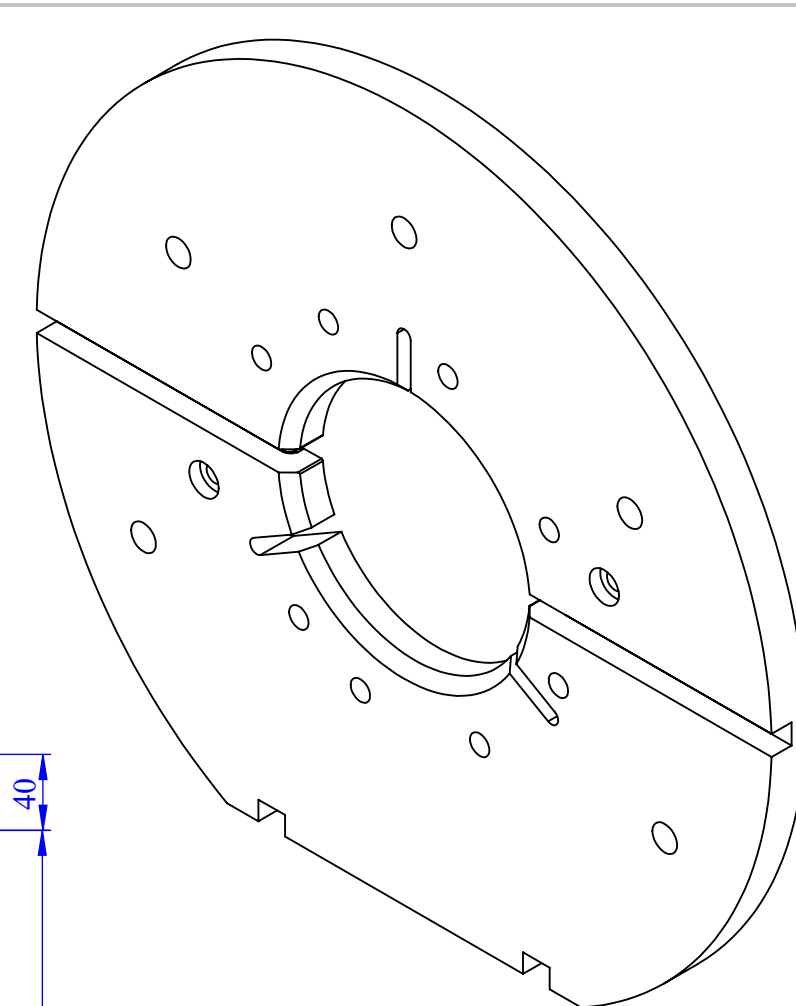
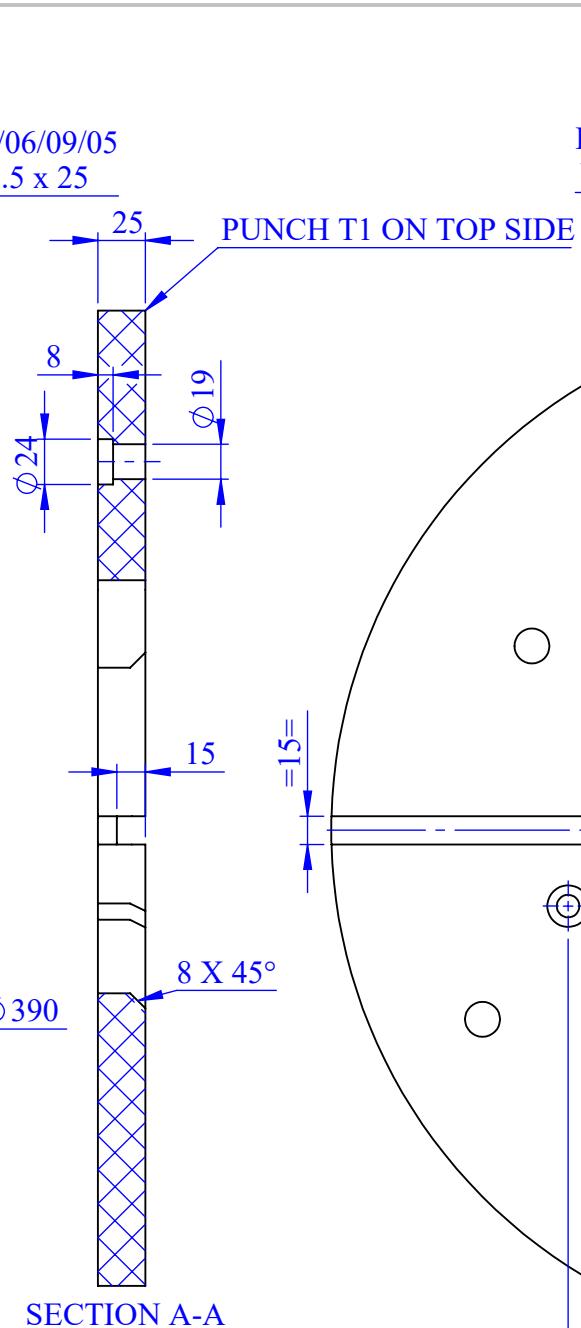
FILE:	
-------	--



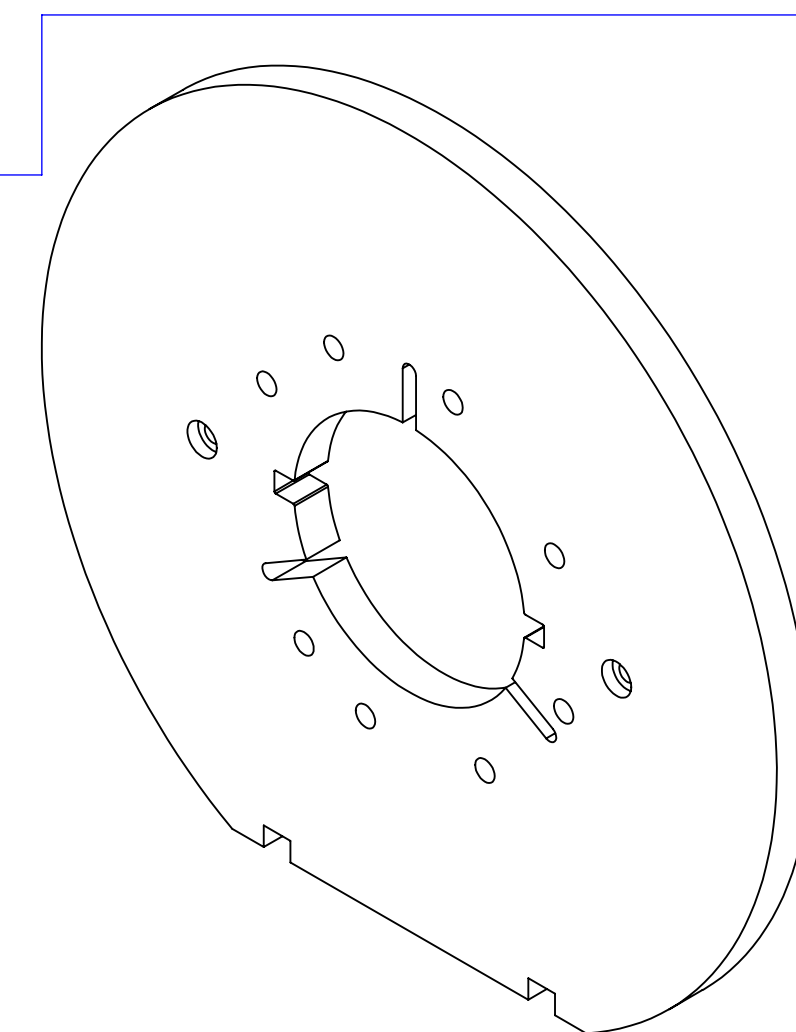
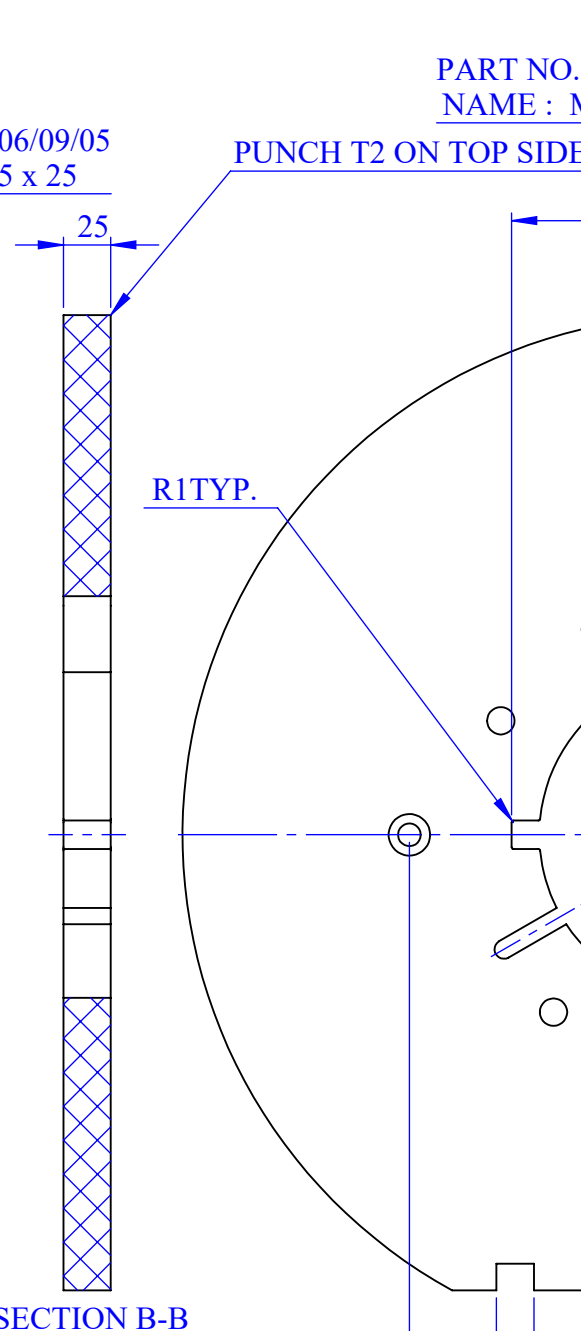
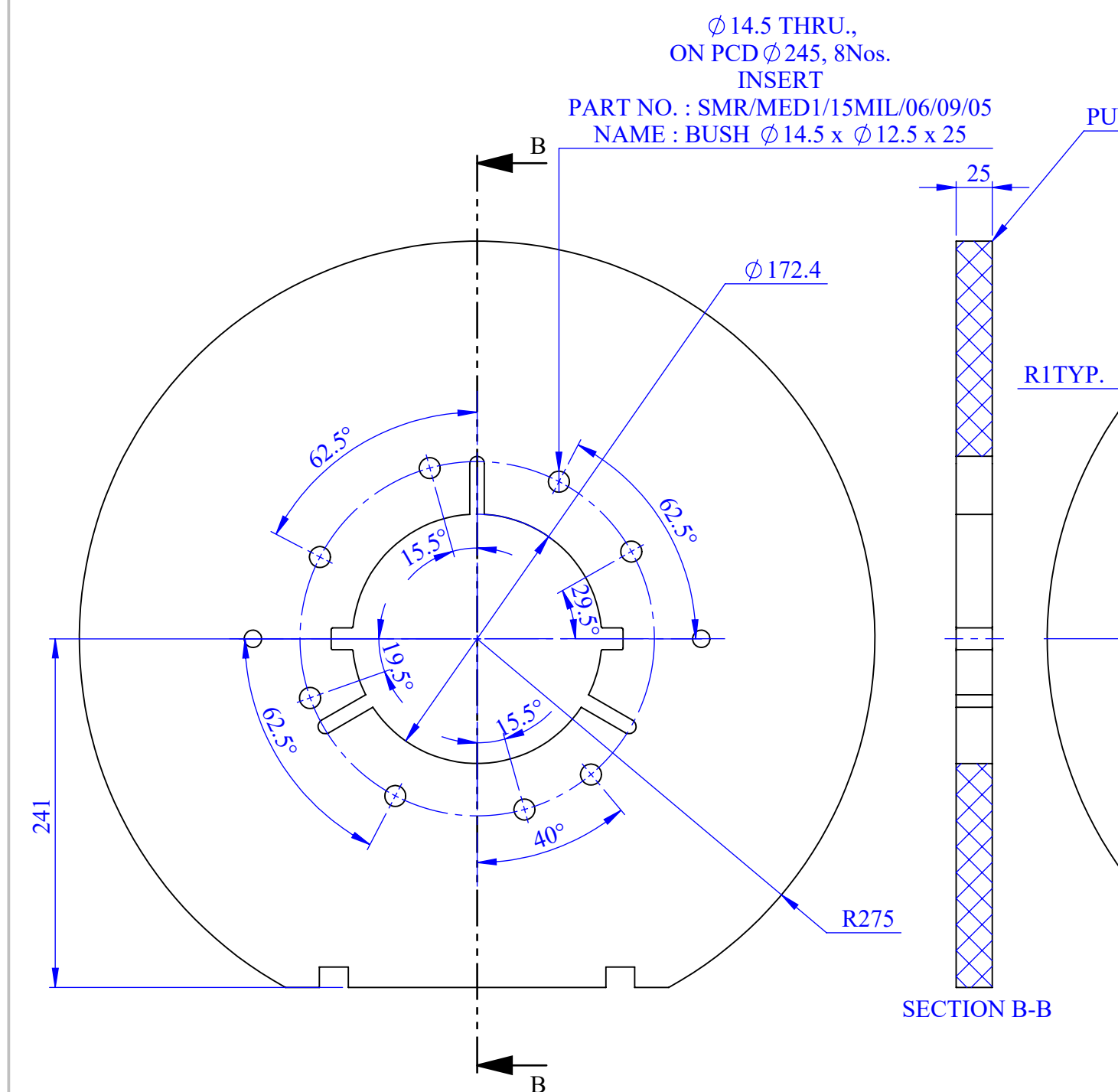
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.					
TITLE:4MIL SYSTEM					REV
ASSLY: SHIELDING BET. PRI. COLL. & SEC. COLL.					
MATL.	--	GEN.TOL.	IS: 2102(M)	DRN.	NSS
QTY.	--	SCALE	NTS	WT.	DATE
ALL DIM. ARE IN mm					
DRG.NO. SMR/LTD/4MIL/12/10				CHKD.	
FILE:					

15MIL LINAC YOKE ASSY										
Sr. No.	Drawing Sheet No.	Drawing No.	Name of Part	MATERIAL	QTY.	SIZE	Weight (Kg)	FINISH	REMARK	
ANNEXURE II										
1	SMR/MED1/15MIL/06/01	SMR/MED1/15MIL/06/01/01	15 MIL LEAD SHEILDING_1	0.95Pb,0.05Sn	1	550 x 516 x 25	55			
2		SMR/MED1/15MIL/06/01/02	15 MIL LEAD SHEILDING_2		1	550 x 516 x 25	57			
3	SMR/MED1/15MIL/06/02	SMR/MED1/15MIL/06/02/01	15 MIL LEAD SHEILDING_3	0.95Pb,0.05Sn	1	550 x 516 x 25	57			
4		SMR/MED1/15MIL/06/02/02	15 MIL LEAD SHEILDING_4		1	550 x 516 x 25	57			
5	SMR/MED1/15MIL/06/03	SMR/MED1/15MIL/06/03/01	15 MIL LEAD SHEILDING_5	0.95Pb,0.05Sn	1	550 x 516 x 25	57			
6		SMR/MED1/15MIL/06/03/02	15 MIL LEAD SHEILDING_6		1	550 x 516 x 25	57			
7	SMR/MED1/15MIL/06/04	SMR/MED1/15MIL/06/04/01	15 MIL LEAD SHEILDING_7	0.95Pb,0.05Sn	1	550 x 516 x 25	50			
8		SMR/MED1/15MIL/06/04/02	15 MIL LEAD SHEILDING_8		1	550 x 516 x 25	39			
9			SMR/MED1/15MIL/06/04/03	WASHER Ø 550 x 3	M.S.	1	Ø 550 x 320 x 3		POWDER COATING	
10	SMR/MED1/15MIL/06/05	SMR/MED1/15MIL/06/05/01	15 MIL LEAD SHEILDING_C1	0.95Pb,0.05Sn	2	531 x 480 x 35	82			
11		SMR/MED1/15MIL/06/05/02	15 MIL LEAD SHEILDING_C2		2	531 x 480 x 35	82			
12		SMR/MED1/15MIL/06/05/03	15 MIL LEAD SHEILDING_C3		1	531 x 480 x 35	41			
13		SMR/MED1/15MIL/06/05/04	15 MIL LEAD SHEILDING_C4		1	531 x 480 x 35	41			
14		SMR/MED1/15MIL/06/05/05	15 MIL LEAD SHEILDING_C5		4	531 x 480 x 35	164			
15	SMR/MED1/15MIL/06/06	SMR/MED1/15MIL/06/06/01	15 MIL LEAD SHEILDING_B1	0.95Pb,0.05Sn	1	301 x 200 x 136	48			
16		SMR/MED1/15MIL/06/06/01/01	15 MIL LEAD SHEILDING_B1_1		1	61 x 46 x 34	1			
17		SMR/MED1/15MIL/06/06/01/02	15 MIL LEAD SHEILDING_B1_2		1	61 x 46 x 34	1			
18		SMR/MED1/15MIL/06/06/02	15 MIL LEAD SHEILDING_B2		1	301 x 200 x 113	40			
19		SMR/MED1/15MIL/06/06/03	15 MIL LEAD SHEILDING_B2_1		4	46 x 30 x 25	2			
20	SMR/MED1/15MIL/06/07	SMR/MED1/15MIL/06/07/01	15 MIL LEAD SHEILDING_E1	0.95Pb,0.05Sn	1	445 x 280 x 25	24			
21		SMR/MED1/15MIL/06/07/02	15 MIL LEAD SHEILDING_E2		1	445 x 280 x 25	26			
22		SMR/MED1/15MIL/06/07/03	15 MIL LEAD SHEILDING_E3		1	445 x 280 x 25	30			
23			SMR/MED1/15MIL/06/07/04	WASHER445 x 320 x 4THK.	M.S.	1	4445 x 320 x 4		POWDER COATING	
24			SMR/MED1/15MIL/06/07/05	15 MIL LEAD SHEILDING_B3	0.95Pb,0.05Sn	2	151 x 146 x 99	24		
25			SMR/MED1/15MIL/06/07/05/01	15 MIL LEAD SHEILDING_B3_1		4	Ø 14.5 x 100	0.8		
26			SMR/MED1/15MIL/06/07/06	15 MIL LEAD SHEILDING_B4		1	300 x 275 x 36	32		
27	SMR/MED1/15MIL/06/08	SMR/MED1/15MIL/06/08/01	15 MIL LEAD SHEILDING_W1	0.95Pb,0.05Sn	2	580 x 580 x 12	88			
28		SMR/MED1/15MIL/06/08/02	15 MIL LEAD SHEILDING_W2		24	580 x 580 x 12	1056			
29			SMR/MED1/15MIL/06/08/03	WASHER 580 x 580 x 3 THK	M.S.	2	580 x 580 x 3		POWDER COATING	
30			SMR/MED1/15MIL/06/08/04	15 MIL LEAD SHEILDING_W3	0.95Pb,0.05Sn	12	700 x 90 x 12	96		
31			SMR/MED1/15MIL/06/08/05	WASHER 700 x 90 x 3 THK	M.S.	2	700 x 90 x 3		POWDER COATING	
32			SMR/MED1/15MIL/06/08/06	STUD M12 x 475	M.S.	2	M12 x 475		NICKEL PLATING	
33			SMR/MED1/15MIL/06/08/07	SUPPORT_1	M.S.	2	80 x 72 x 60			
34			SMR/MED1/15MIL/06/08/07/01	PLATE 80 x 60 x 12	M.S.	4	80 x 60 x 12			
35			SMR/MED1/15MIL/06/08/07/02	PLATE 60 x 60 x 12	M.S.	4	60 x 60 x 12			
36			SMR/MED1/15MIL/06/08/08	SUPPORT_2	M.S.	2	80 x 72 x 60		NICKEL PLATING	
37	SMR/MED1/15MIL/06/09	SMR/MED1/15MIL/06/09/01	15 MIL LEAD SHEILDING_P1	0.95Pb,0.05Sn	2	715 x 580 x 6	56			
38		SMR/MED1/15MIL/06/09/02	15 MIL LEAD SHEILDING_P2		2	715 x 503 x 6	48			
39		SMR/MED1/15MIL/06/09/03	15 MIL LEAD SHEILDING_R1		3	Ø 269 x Ø 205 x 100	78			
40		SMR/MED1/15MIL/06/09/04	15 MIL LEAD SHEILDING_R2		3	Ø 269 x 100	135			
41			SMR/MED1/15MIL/06/09/05	BUSH Ø14.5 x Ø12.5 x 25	M.S.	60	Ø14.5 x Ø12.5 x 25		NICKEL PLATING	
42			SMR/MED1/15MIL/06/09/06	BUSH Ø14.5 x Ø12.5 x 35		81	Ø14.5 x Ø12.5 x 35			
43			SMR/MED1/15MIL/06/09/07	BUSH Ø12.2 x Ø10.2 x 25		20	Ø12.2 x Ø10.2 x 25			
44			SMR/MED1/15MIL/06/09/08	BUSH Ø14 x Ø8.2 x 36		6	Ø14 x Ø8.2 x 36			
45			SMR/MED1/15MIL/06/09/09	M12 INSERT HEX. A/F 24 x 25		12	HEX. A/F 24 x 25			
46			SMR/MED1/15MIL/06/09/10	M12 INSERT HEX. A/F 24 x 35		12	HEX. A/F 24 x 35			
47			SMR/MED1/15MIL/06/09/11	M8 INSERT HEX. A/F 22 x 25		24	HEX. A/F 22 x 25			
48			SMR/MED1/15MIL/06/09/12	RING WASHER		6	190 x 30 x 6			
49			SMR/MED1/15MIL/06/09/13	FLAT WASHER		12	14 x 20 x 100			
						Total weight	2624.8			

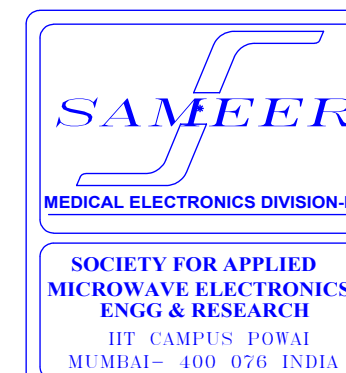
- Party should give test certificate for lead composition form government recognized lab. (5% Antimony should be with in ±1%).
- Density of lead material should be 11.3gm/cc.
- The lead material should be free from any bare hole and casting defects.
- Sample from the cast material should be tested for density and demonstrate before delivery.



PART NO. : SMR/MED1/15MIL/06/01/01
NAME : 15 MIL LEAD SHEILDING_1
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 55Kg



PART NO. : SMR/MED1/15MIL/06/01/02
NAME : 15 MIL LEAD SHEILDING_2
QTY. : 1
MATIL : PbSn
WIEGHT : 57Kg



THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.

TITLE: 15 MIL LEAD SHIELDING

ASSLY: LEAD SHEILDING 1 AND 2

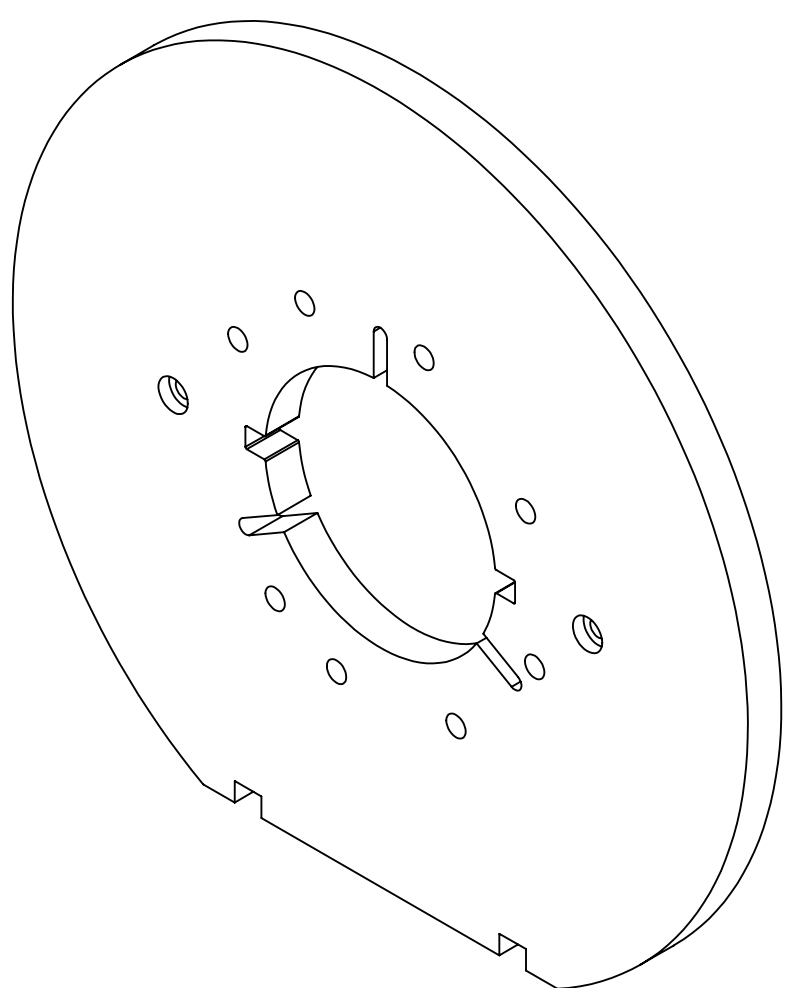
REV

MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN	DATE
QTY.	--	SCALE	NTS	WT.		31.03.23

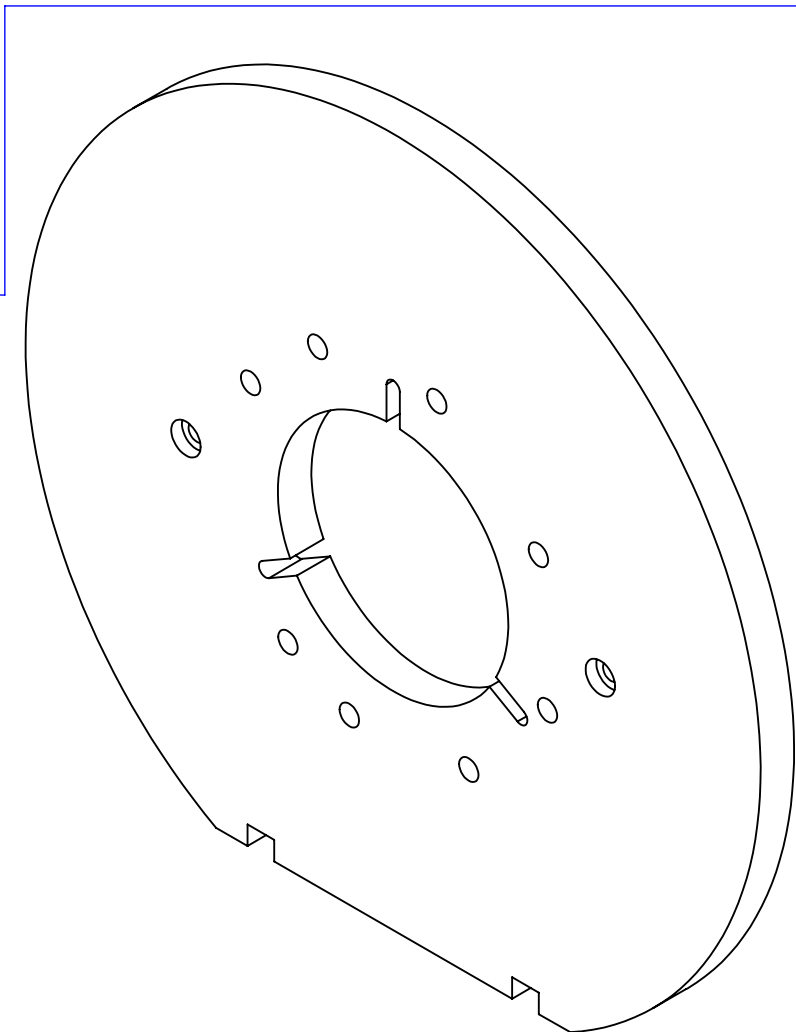
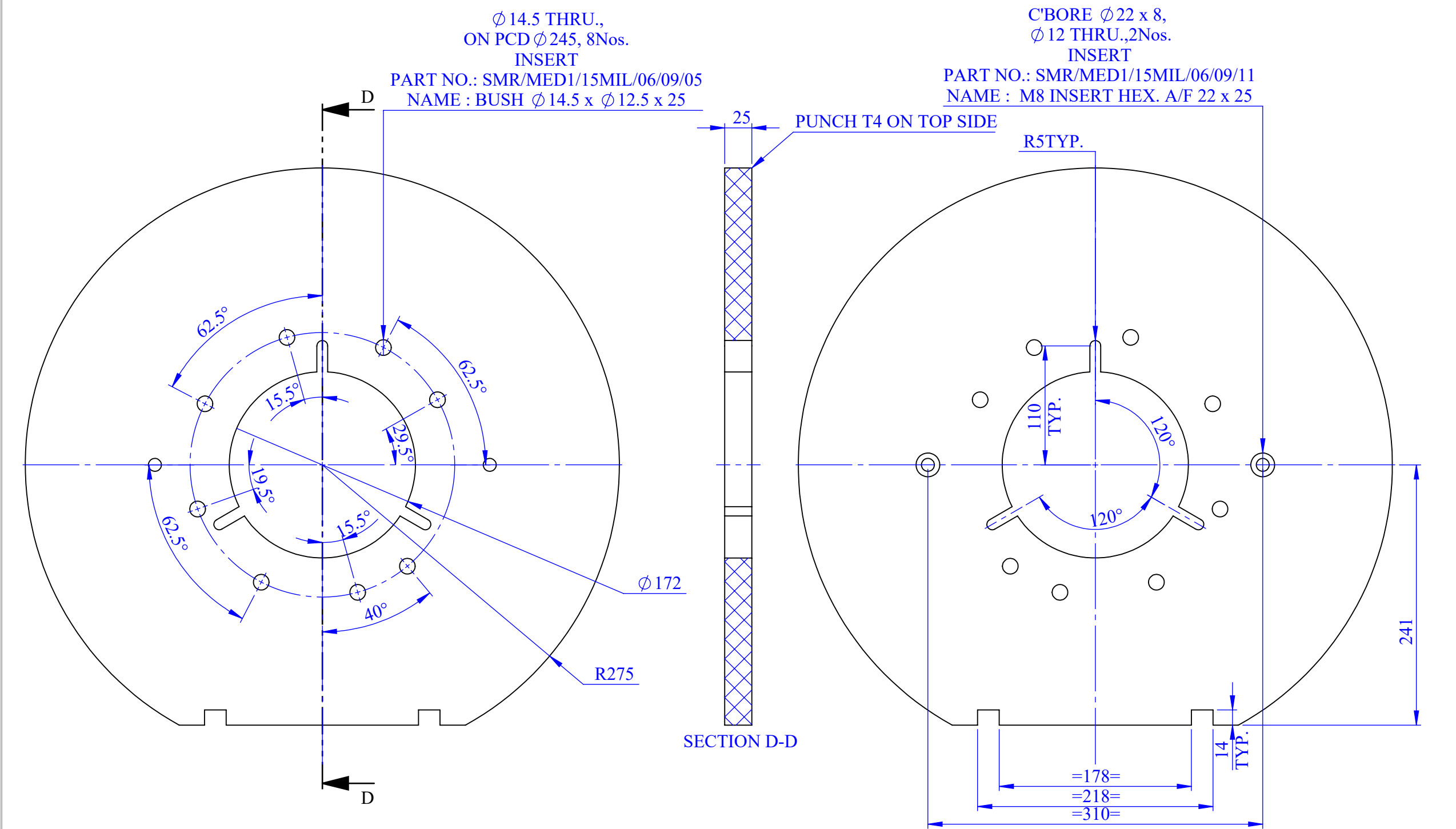
ALL DIM. ARE IN mm	DRG.NO. MED1/15MIL/06/01
--------------------	---------------------------------

FINISH

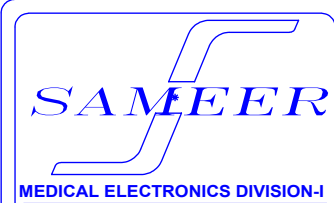
FILE:	
-------	--



PART NO. : SMR/MED1/15MIL/06/02/01
NAME : 15 MIL LEAD SHEILDING_3
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 57Kg



PART NO. : SMR/MED1/15MIL/06/02/02
NAME : 15 MIL LEAD SHEILDING_4
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 57Kg



**SOCIETY FOR APPLIED
MICROWAVE ELECTRONICS
ENGG & RESEARCH**
IIT CAMPUS POWAI
MUMBAI- 400 076 INDIA

THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.

TITLE: 15 MIL LEAD SHIELDING

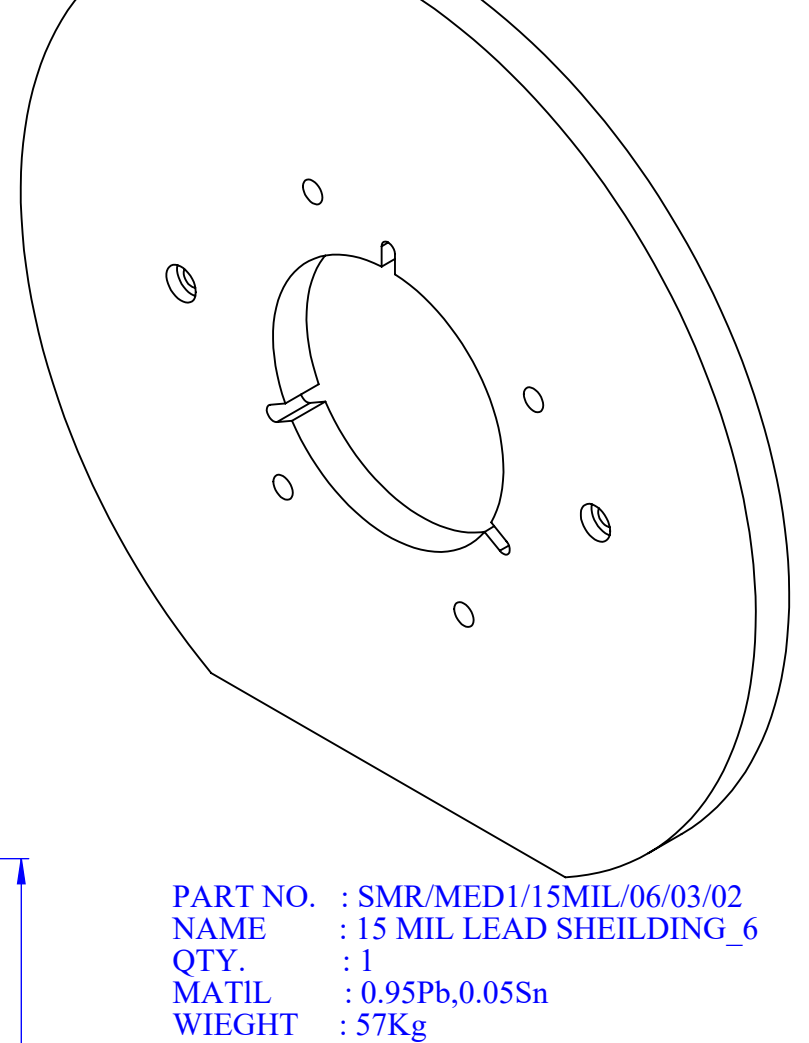
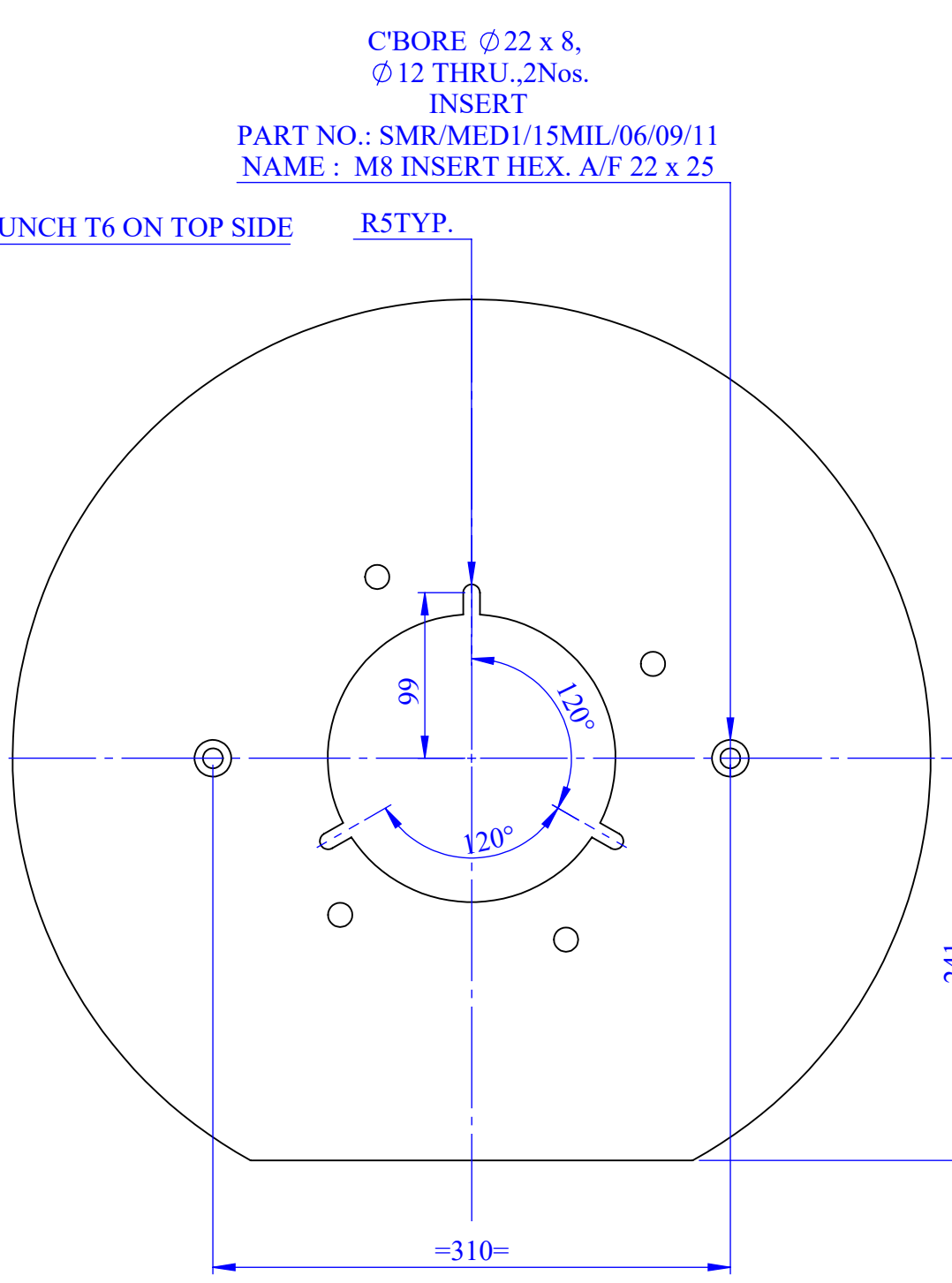
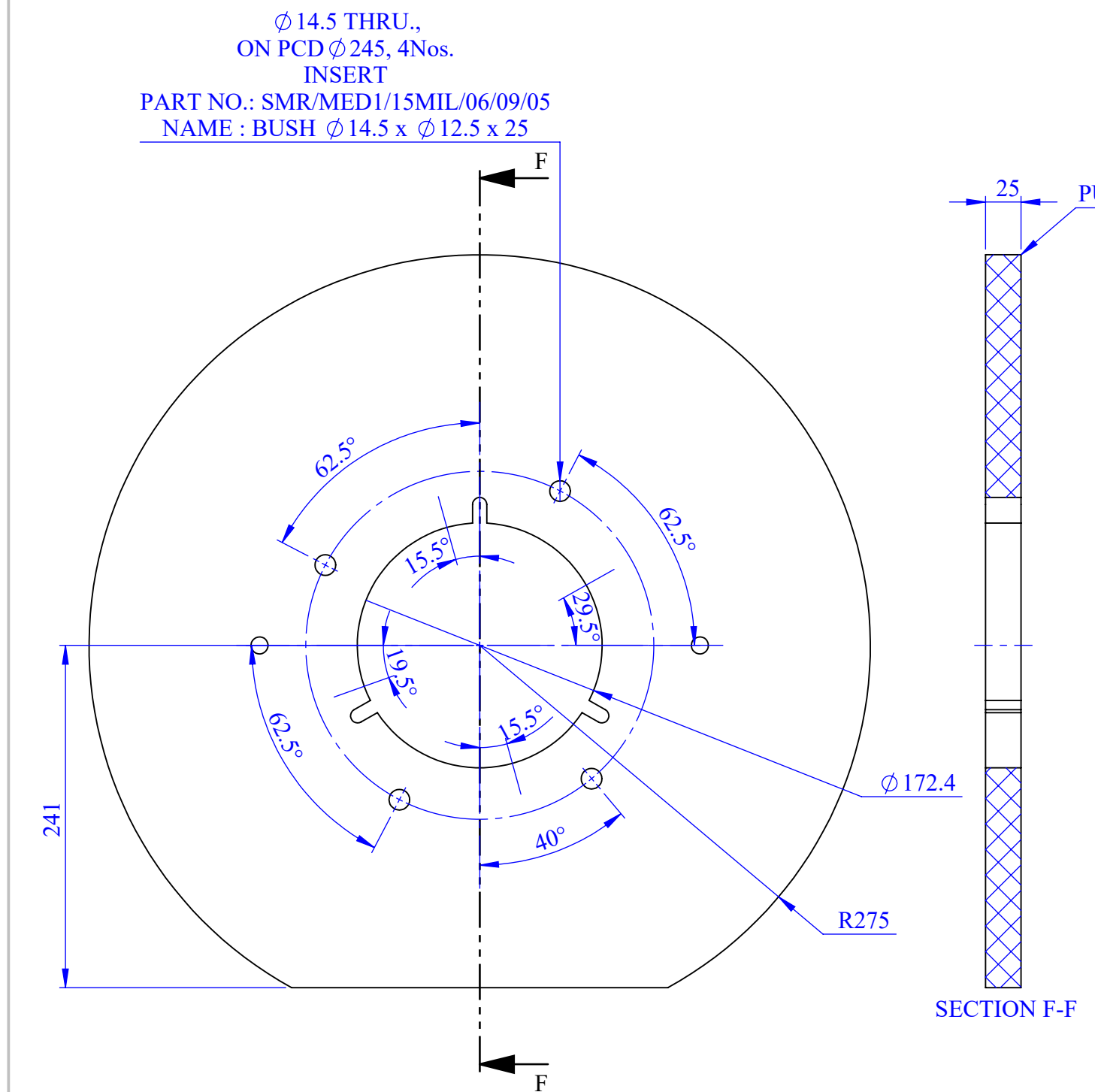
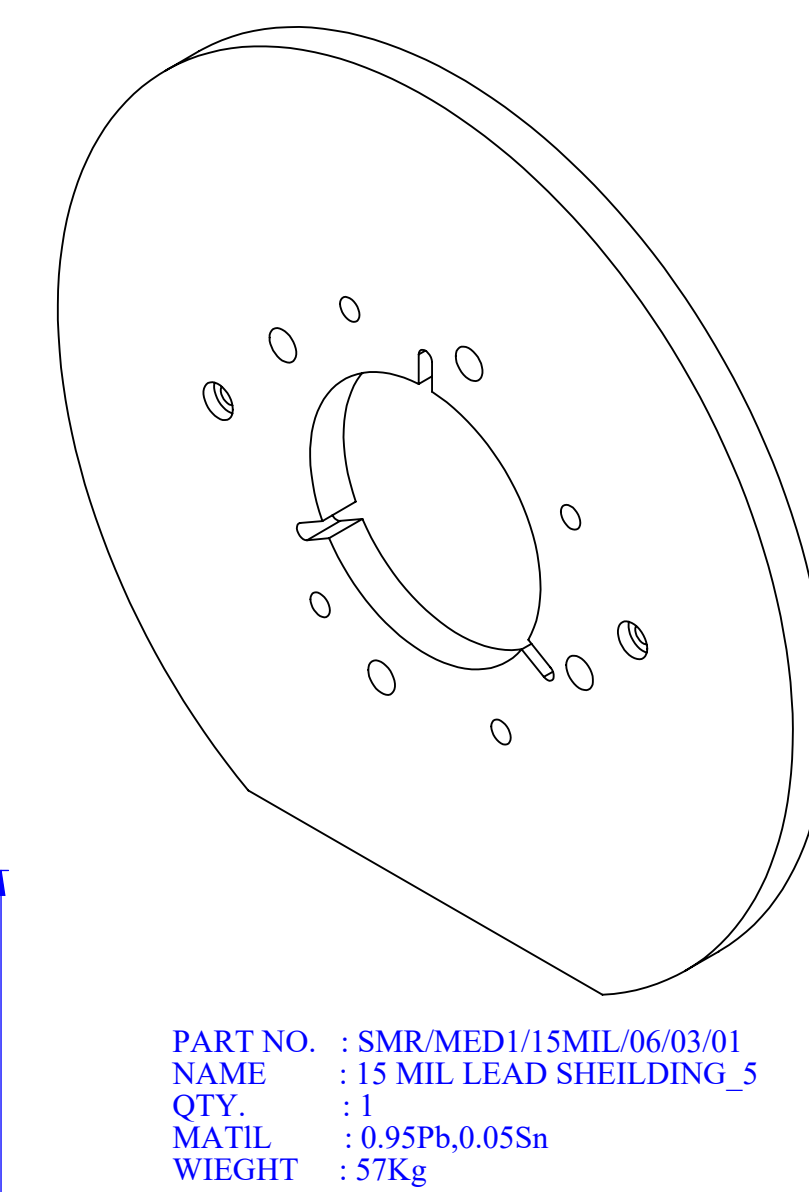
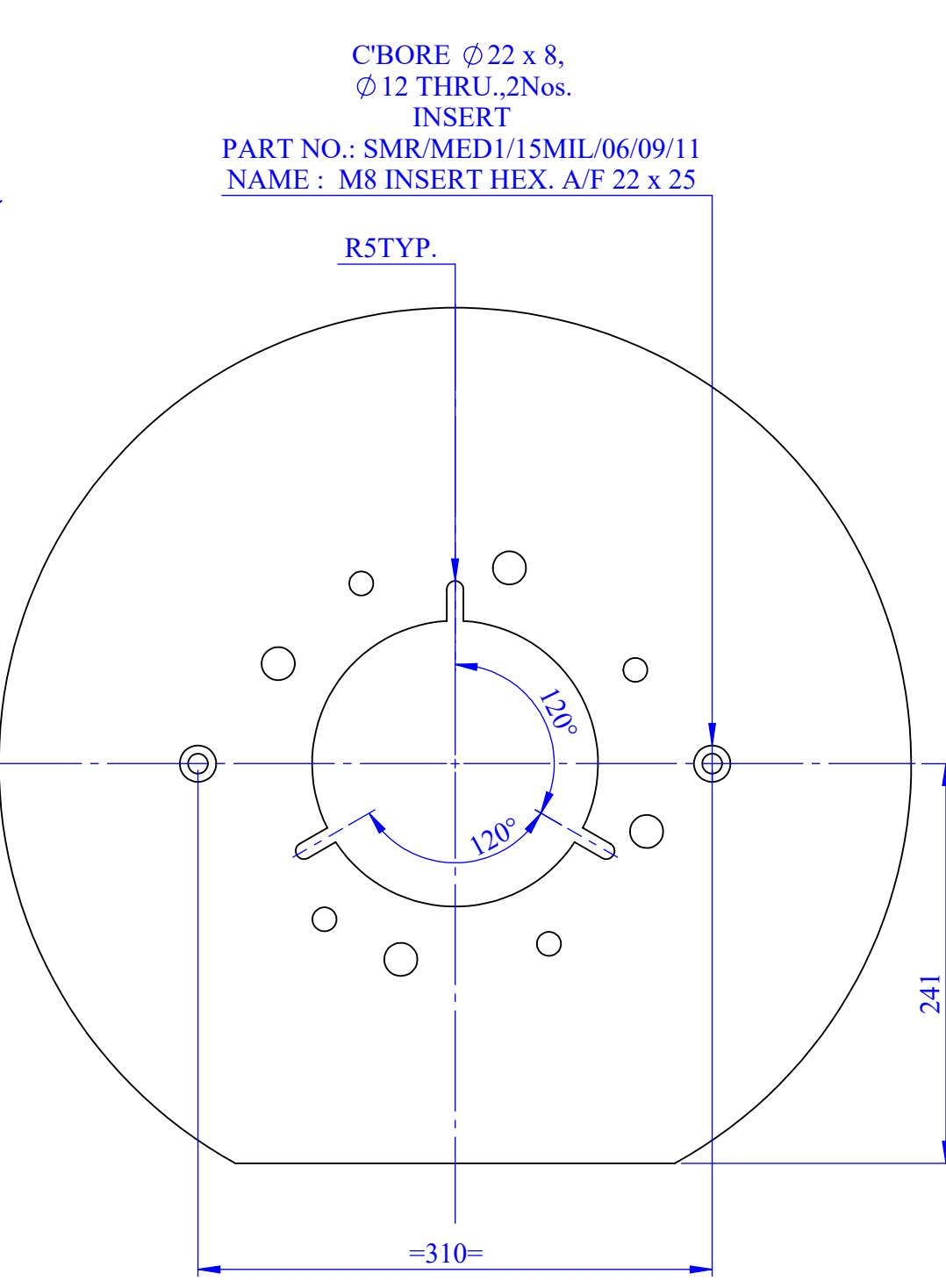
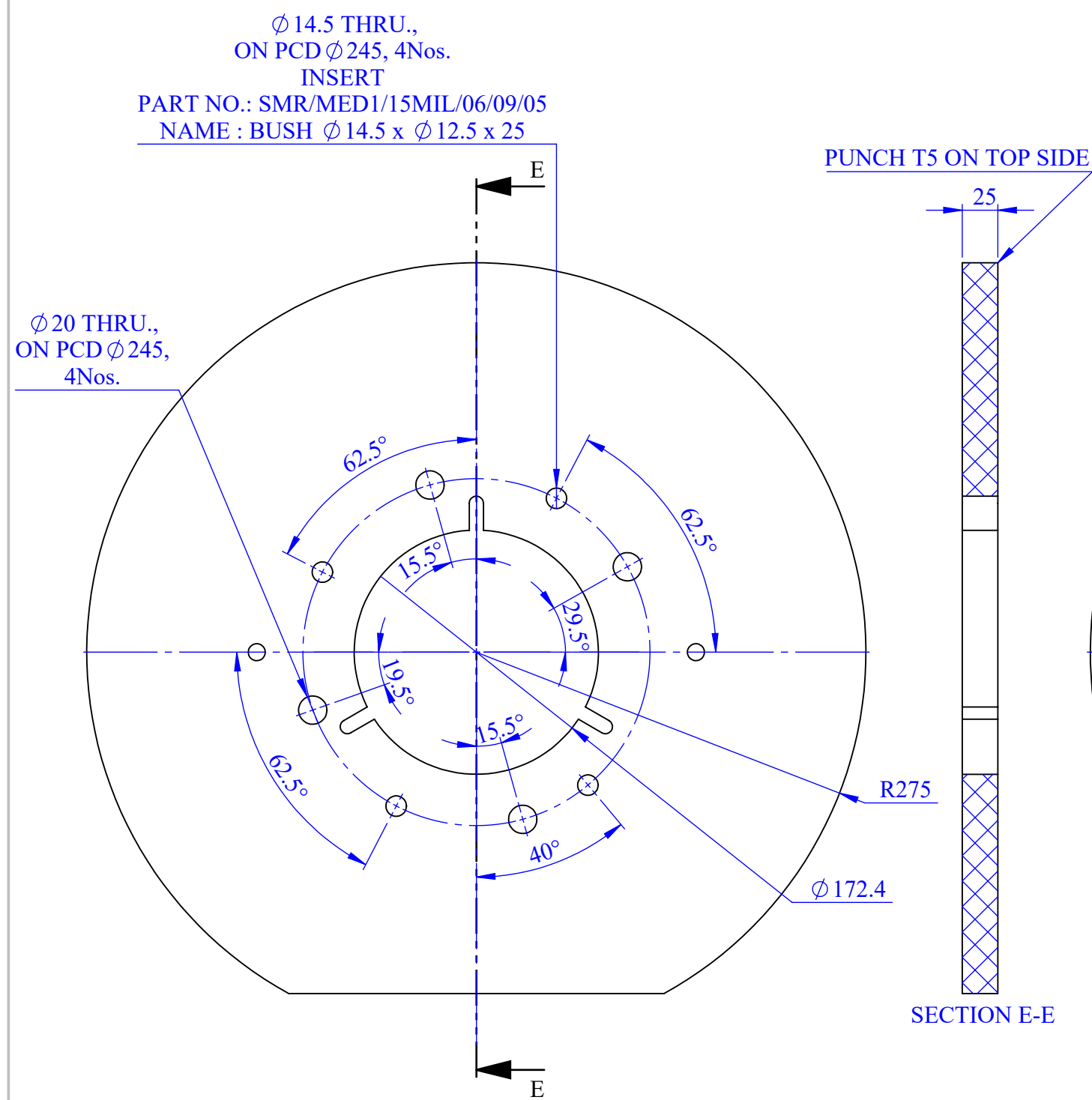
ASSLY: LEAD SHEILDING 3 AND 4

REV

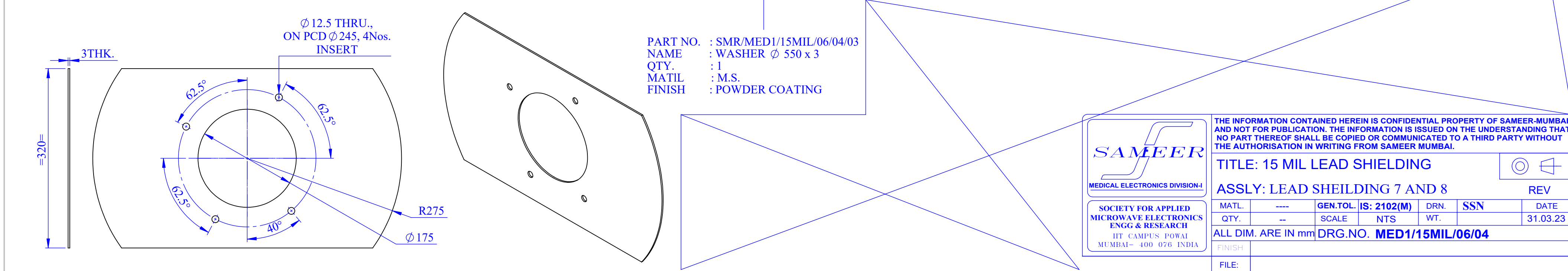
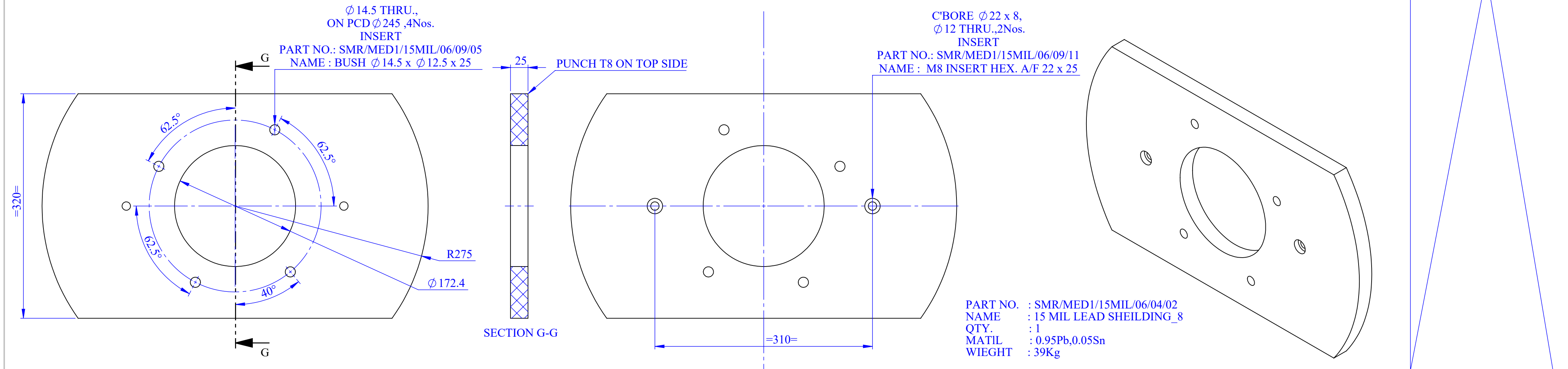
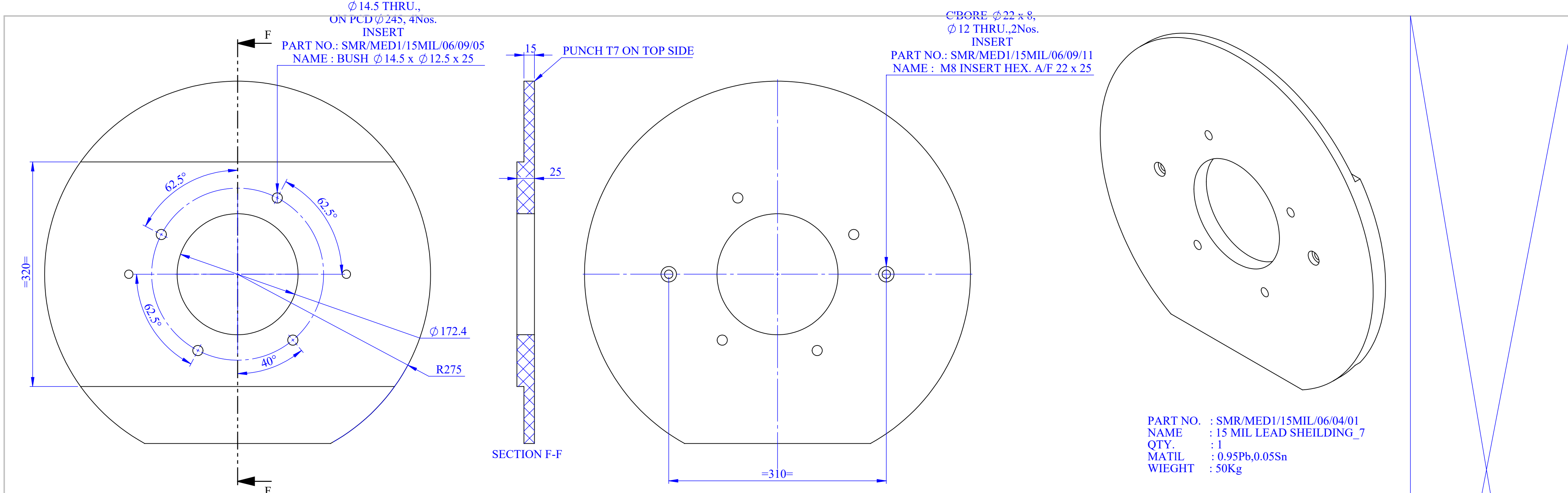
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN	DATE
QTY.	--	SCALE	NTS	WT.		31.03.23

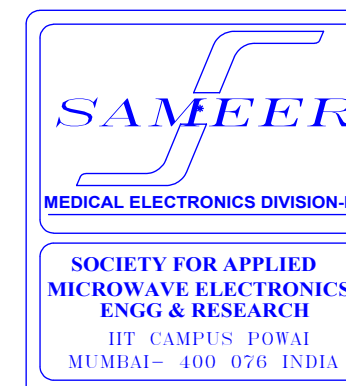
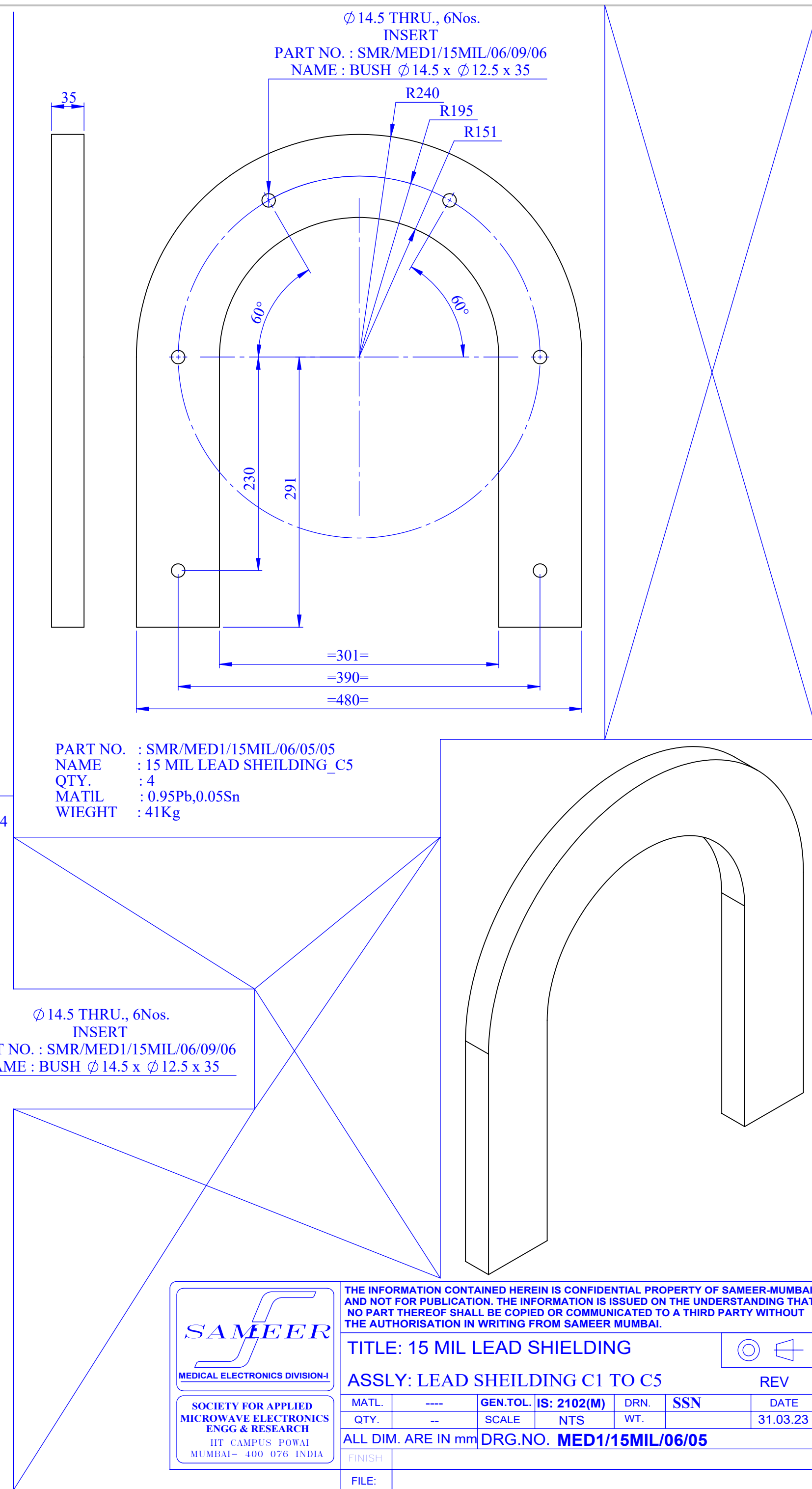
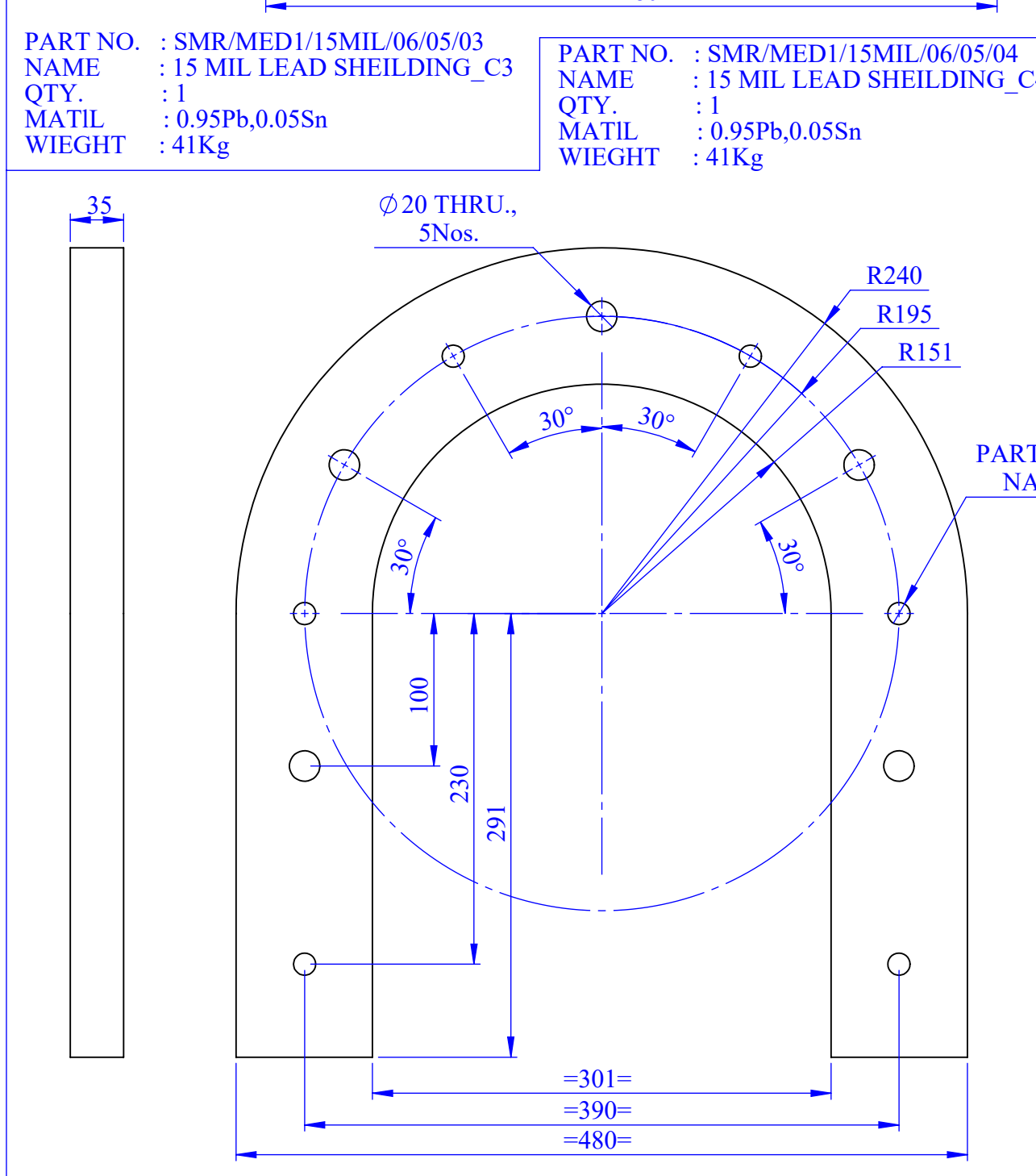
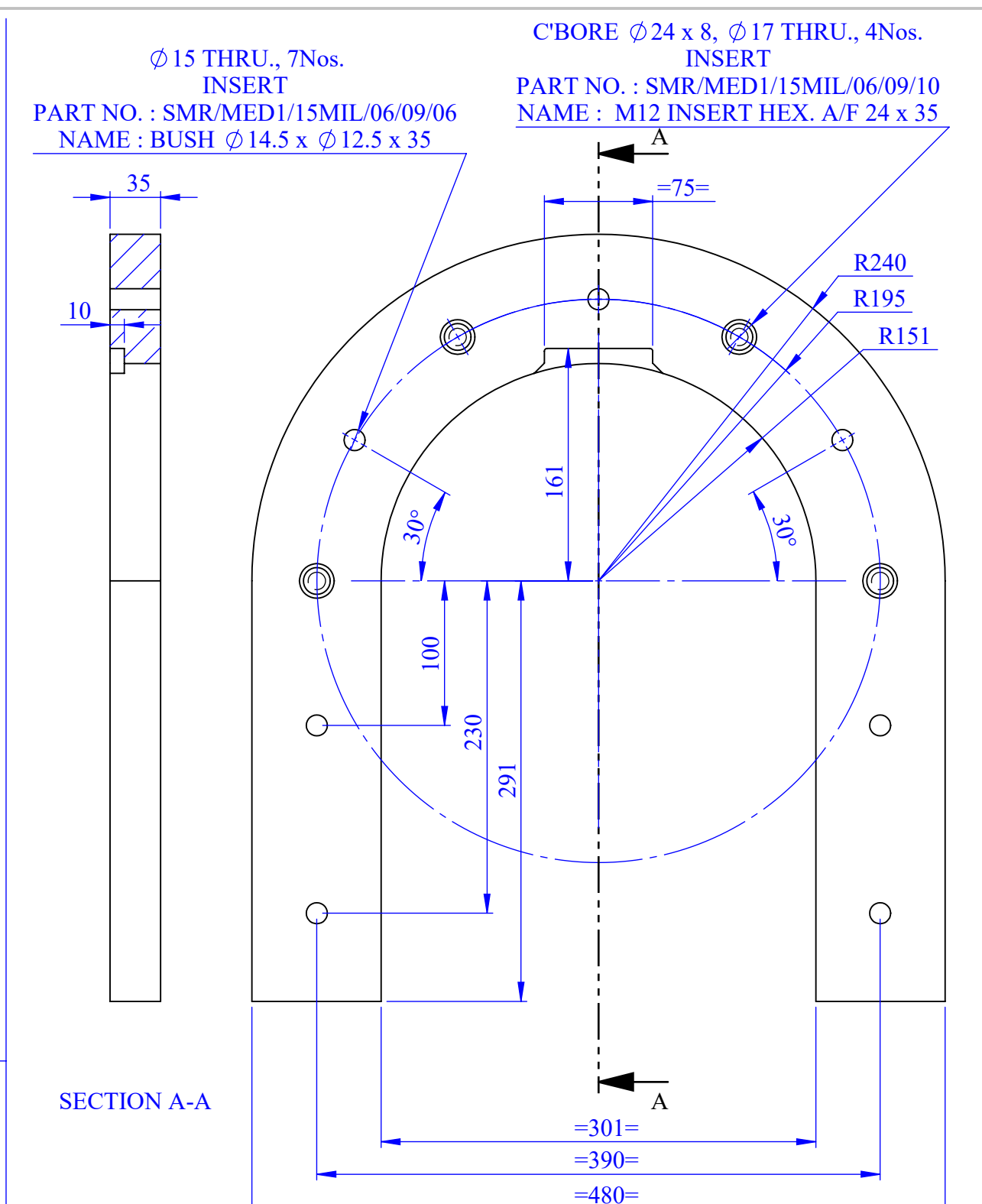
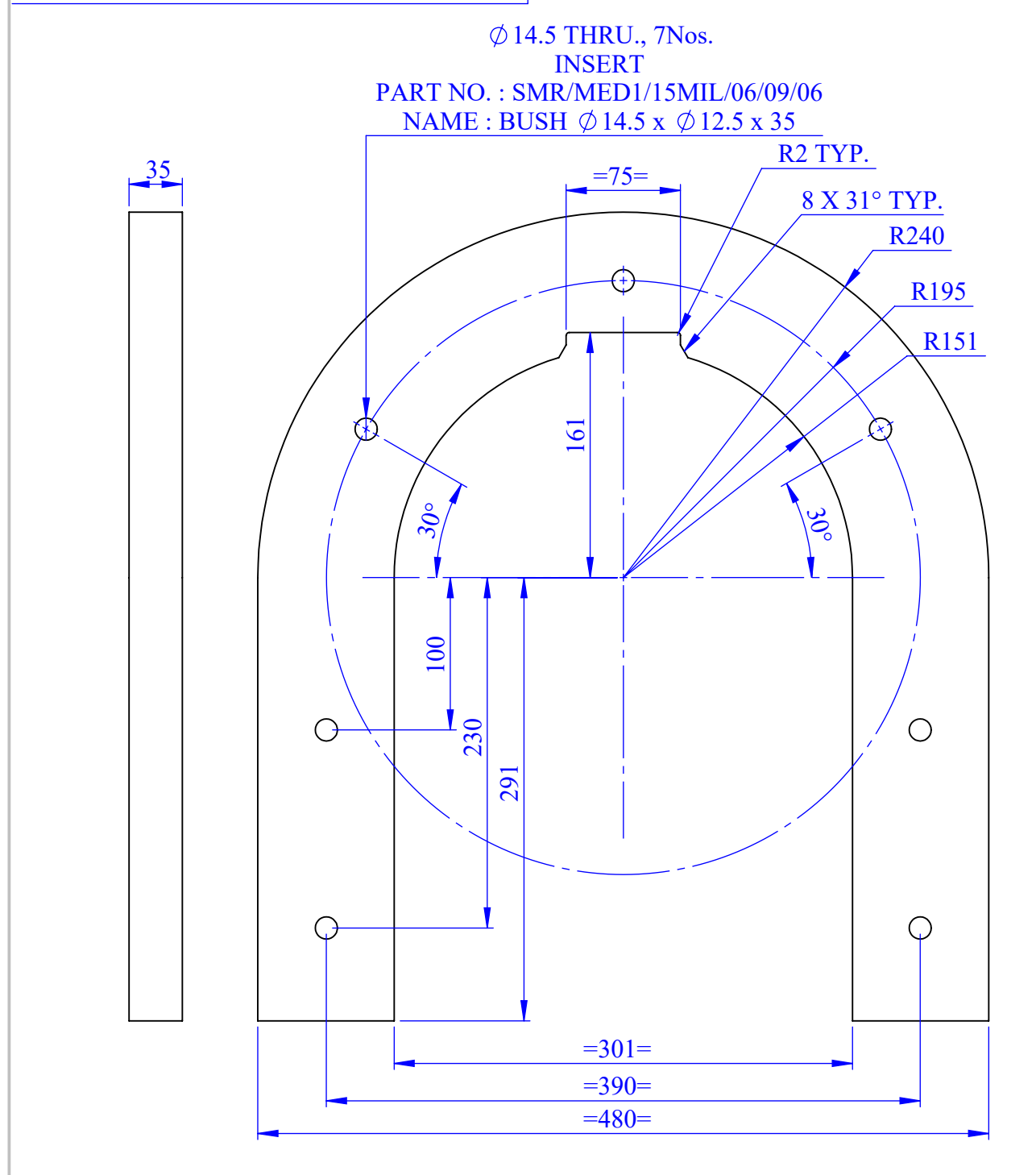
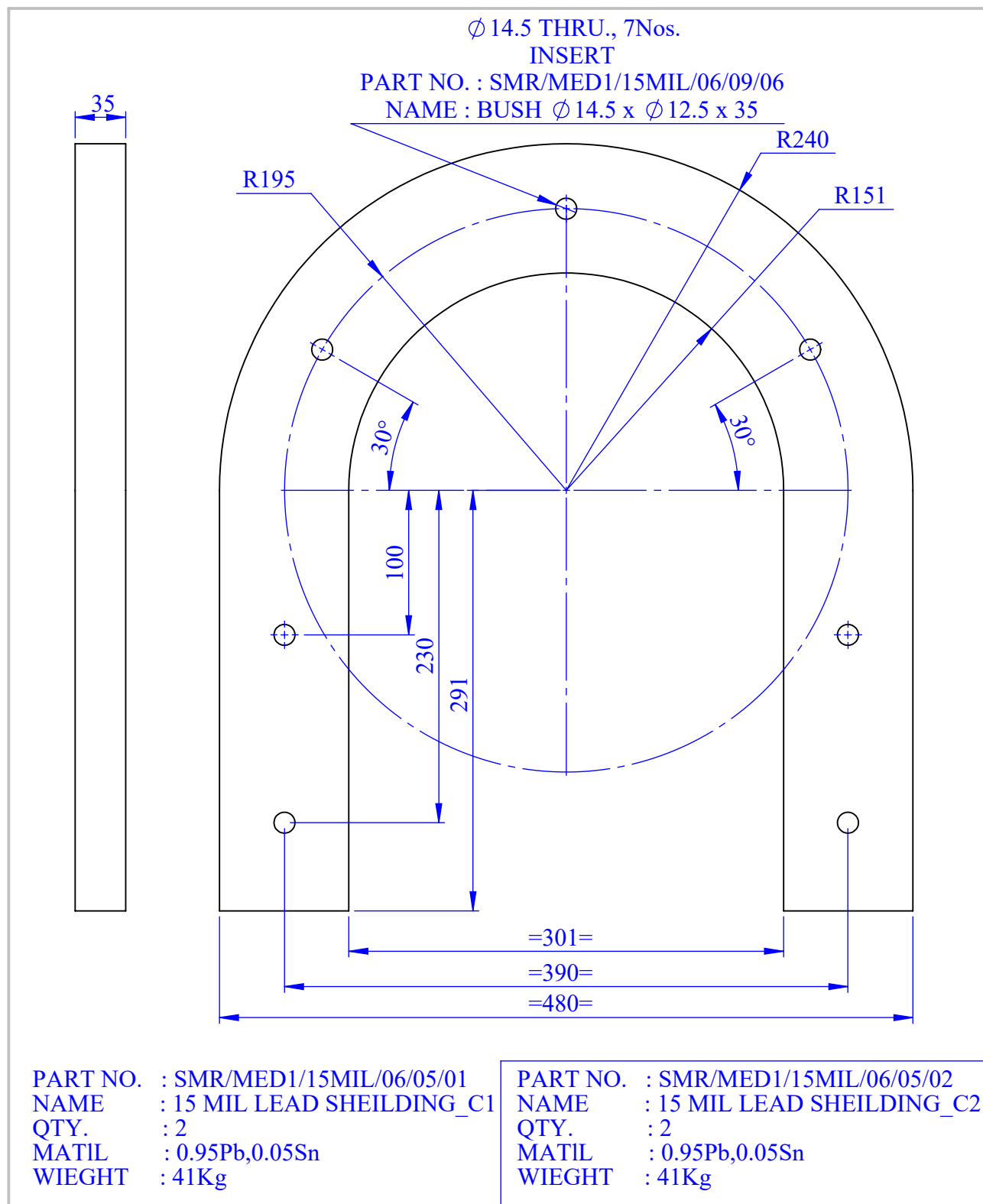
ALL DIM. ARE IN mm | DRG.NO. **MED1/15MIL/06/02**

FILE:



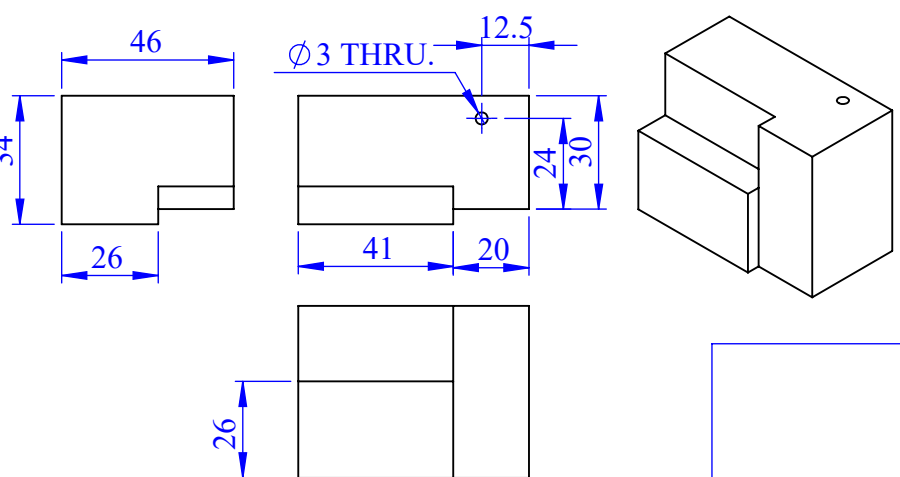
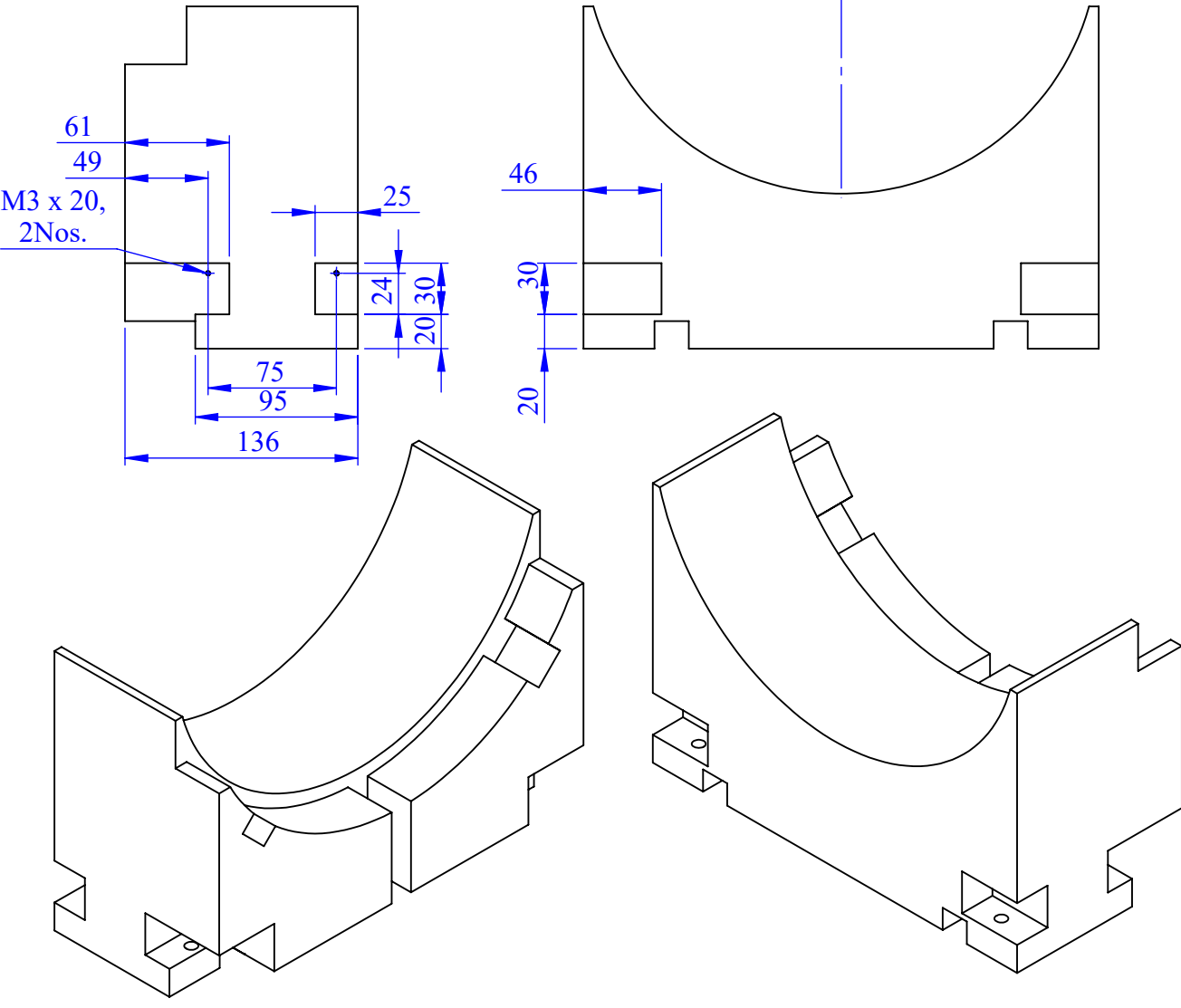
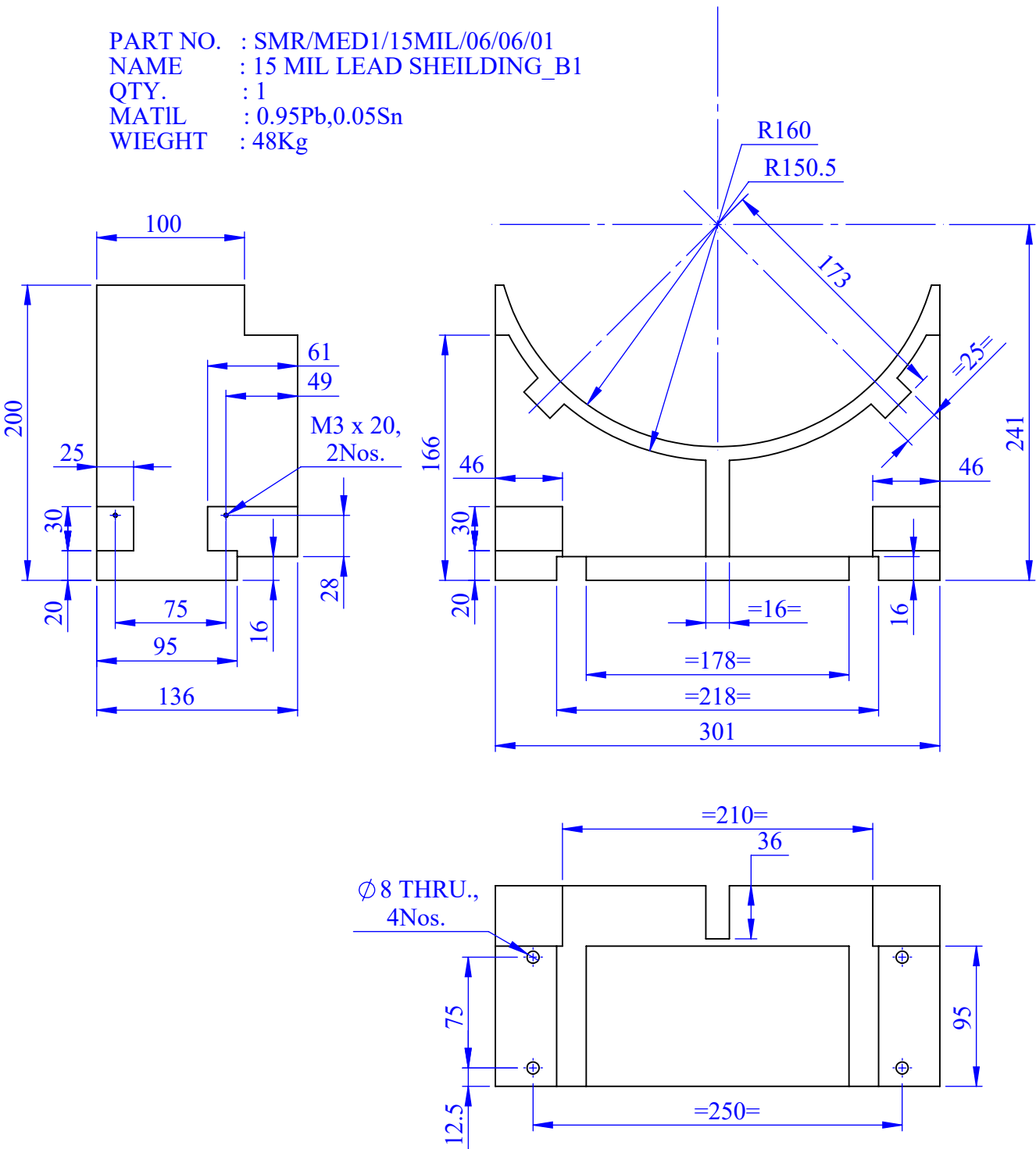
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.					
TITLE: 15 MIL LEAD SHEILDING					
ASSLY: LEAD SHEILDING 5 AND 6					
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN
QTY.	--	SCALE	NTS	WT.	
ALL DIM. ARE IN mm					
DRG.NO. MED1/15MIL/06/03					
REV					
DATE					
31.03.23					
FILE:					



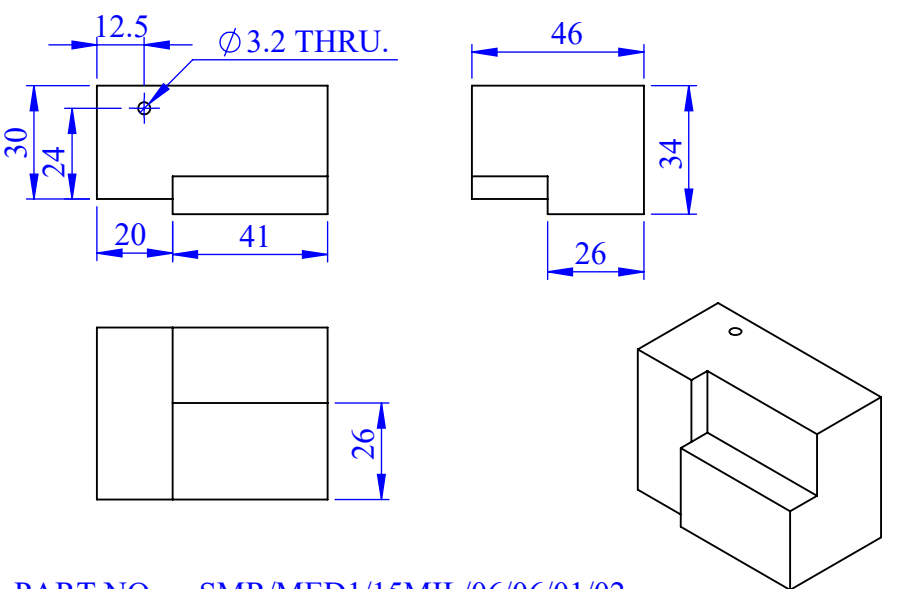


THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.					
TITLE: 15 MIL LEAD SHEILDING					
ASSLY: LEAD SHEILDING C1 TO C5					
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN
QTY.	--	SCALE	NTS	WT.	DATE
ALL DIM. ARE IN mm					
DRG.NO. MED1/15MIL/06/05					
FINISH					
FILE:					

PART NO. : SMR/MED1/15MIL/06/06/01
NAME : 15 MIL LEAD SHEILDING_B1
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 48Kg

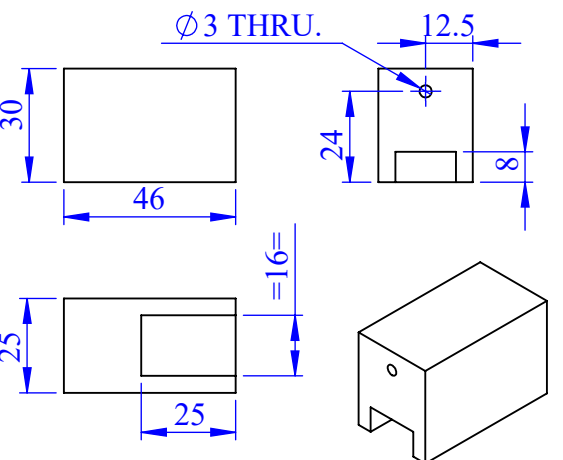
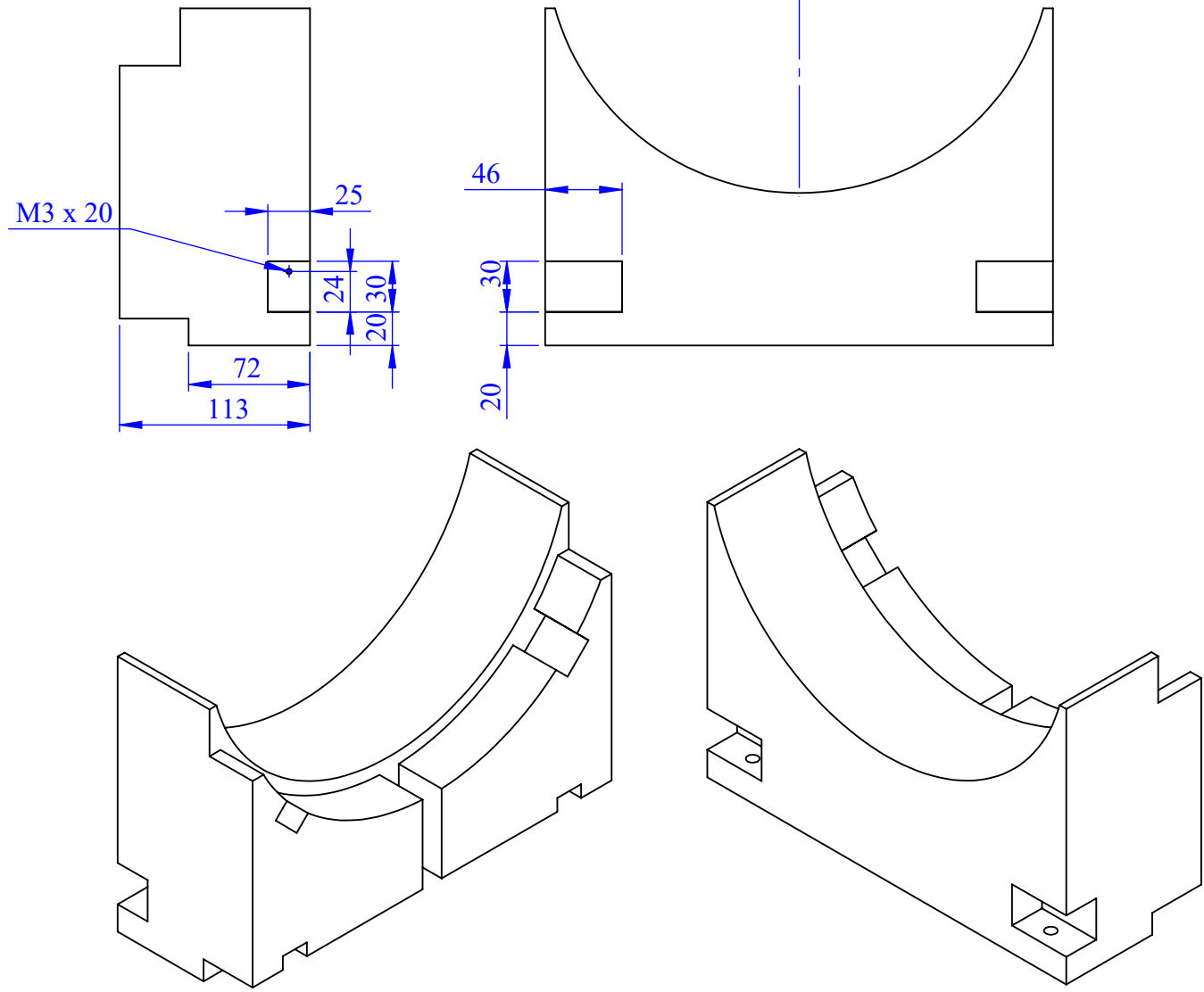
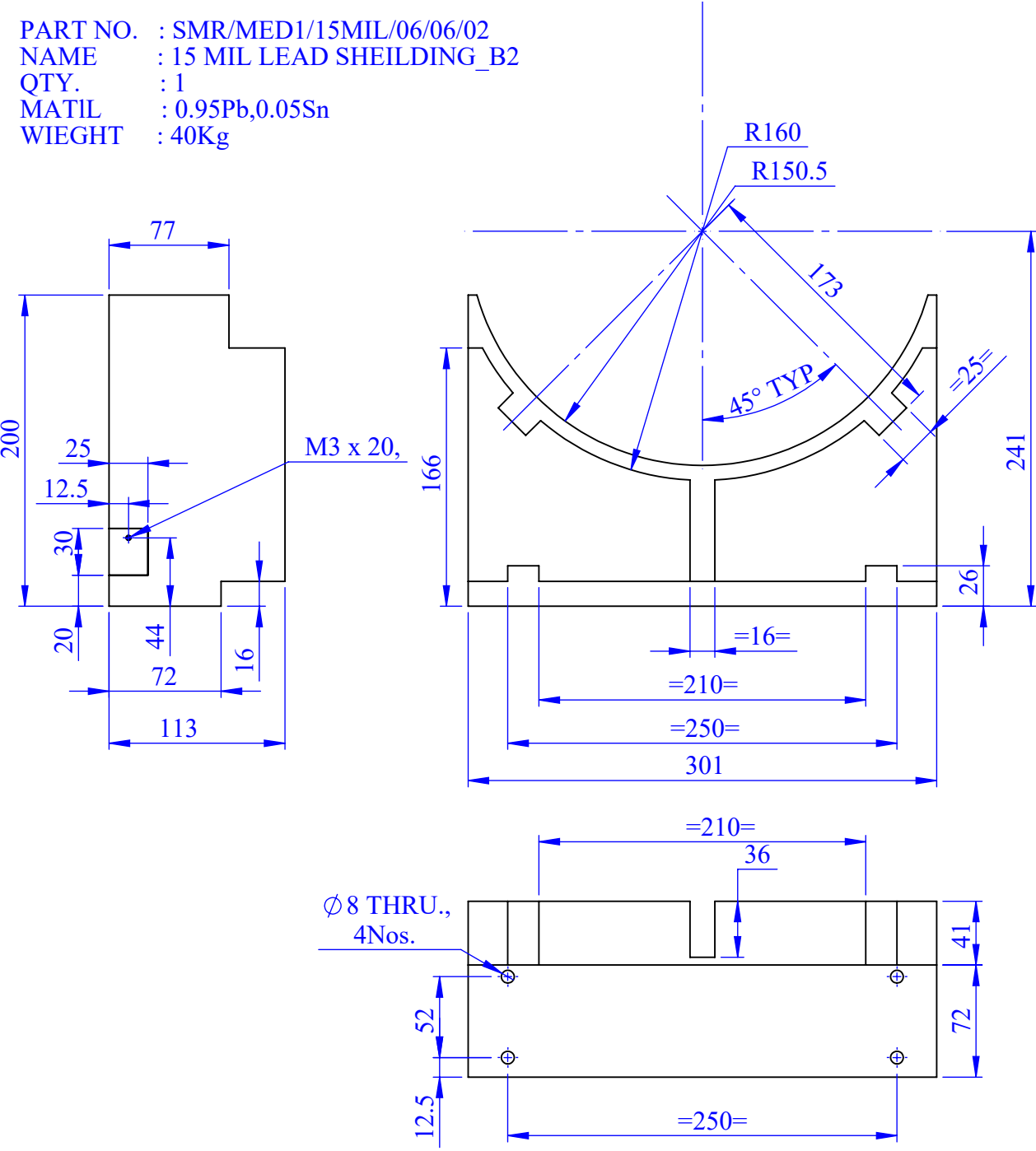


PART NO. : SMR/MED1/15MIL/06/06/01/01
NAME : 15 MIL LEAD SHEILDING_B1_1
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 1Kg

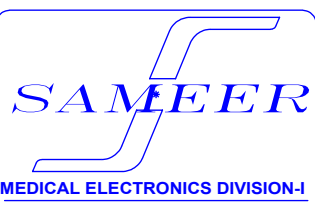


PART NO. : SMR/MED1/15MIL/06/06/01/02
NAME : 15 MIL LEAD SHEILDING_B1_2
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 1Kg

PART NO. : SMR/MED1/15MIL/06/06/02
NAME : 15 MIL LEAD SHEILDING_B2
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 40Kg



PART NO. : SMR/MED1/15MIL/06/06/02
NAME : 15 MIL LEAD SHEILDING_B2_1
QTY. : 4
MATIL : 0.95Pb,0.05Sn
WIEGHT : 0.5Kg

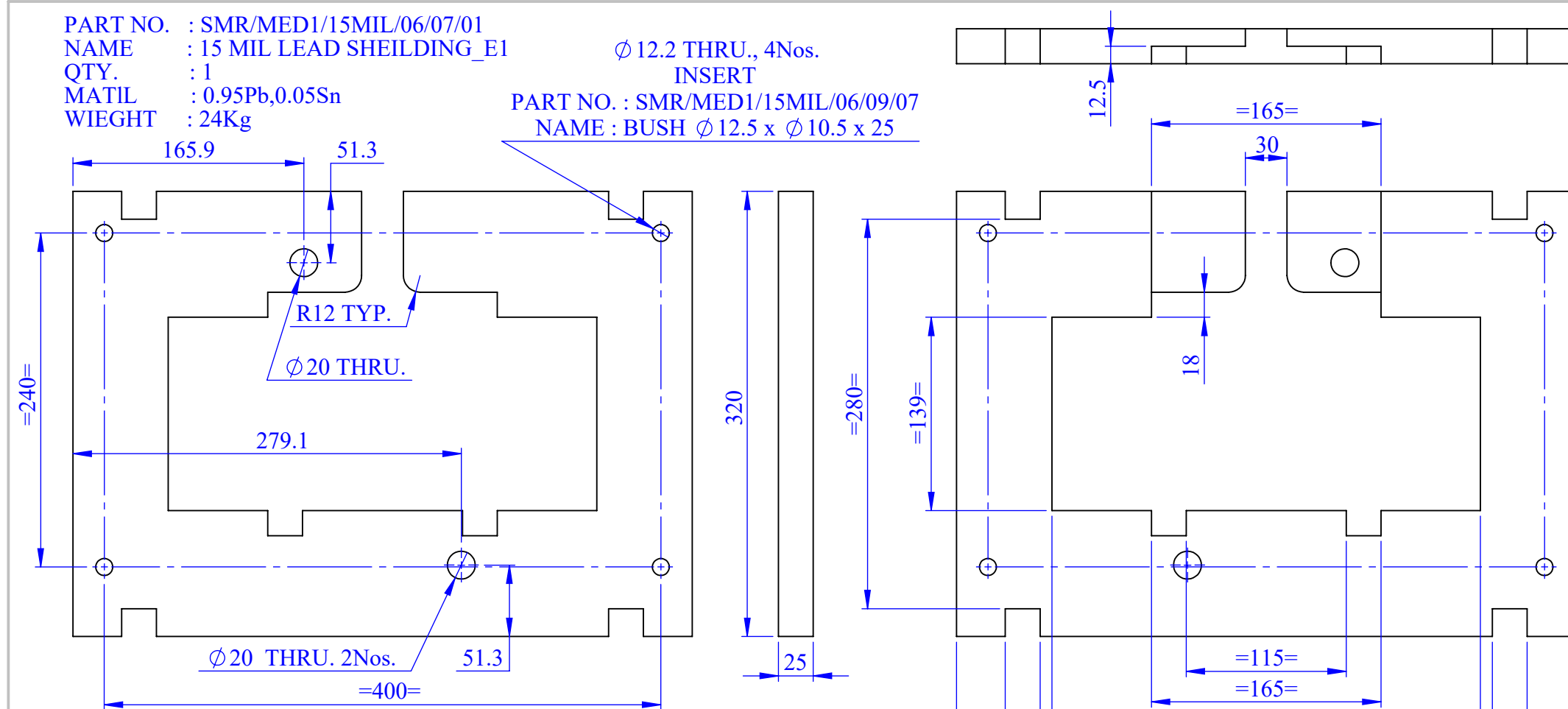


SOCIETY FOR APPLIED
MICROWAVE ELECTRONICS
ENGG & RESEARCH
IIT CAMPUS POWAI
MUMBAI- 400 076 INDIA

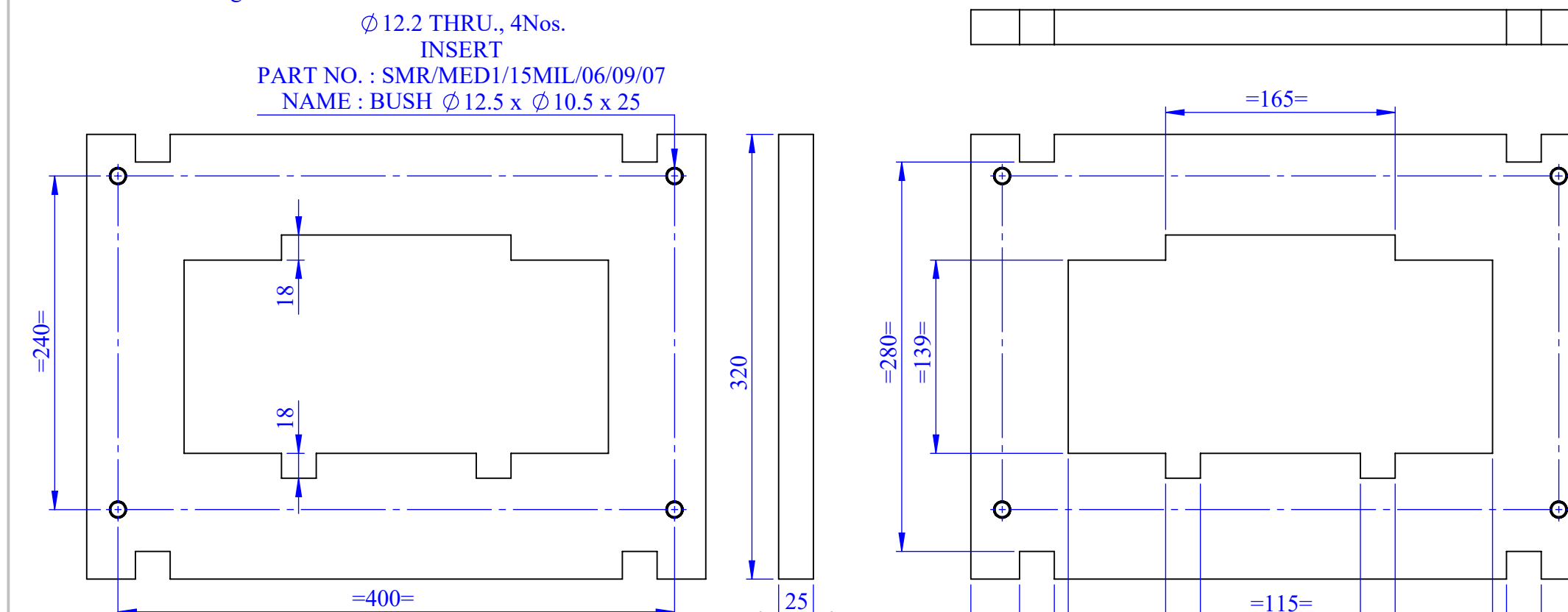
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.

TITLE: 15 MIL LEAD SHIELDING					
ASSLY: LEAD SHEILDING B1 AND B2					
REV					
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN
QTY.	--	SCALE	NTS	WT.	
ALL DIM. ARE IN mm					
DRG.NO. MED1/15MIL/06/06					
FINISH					
FILE:					

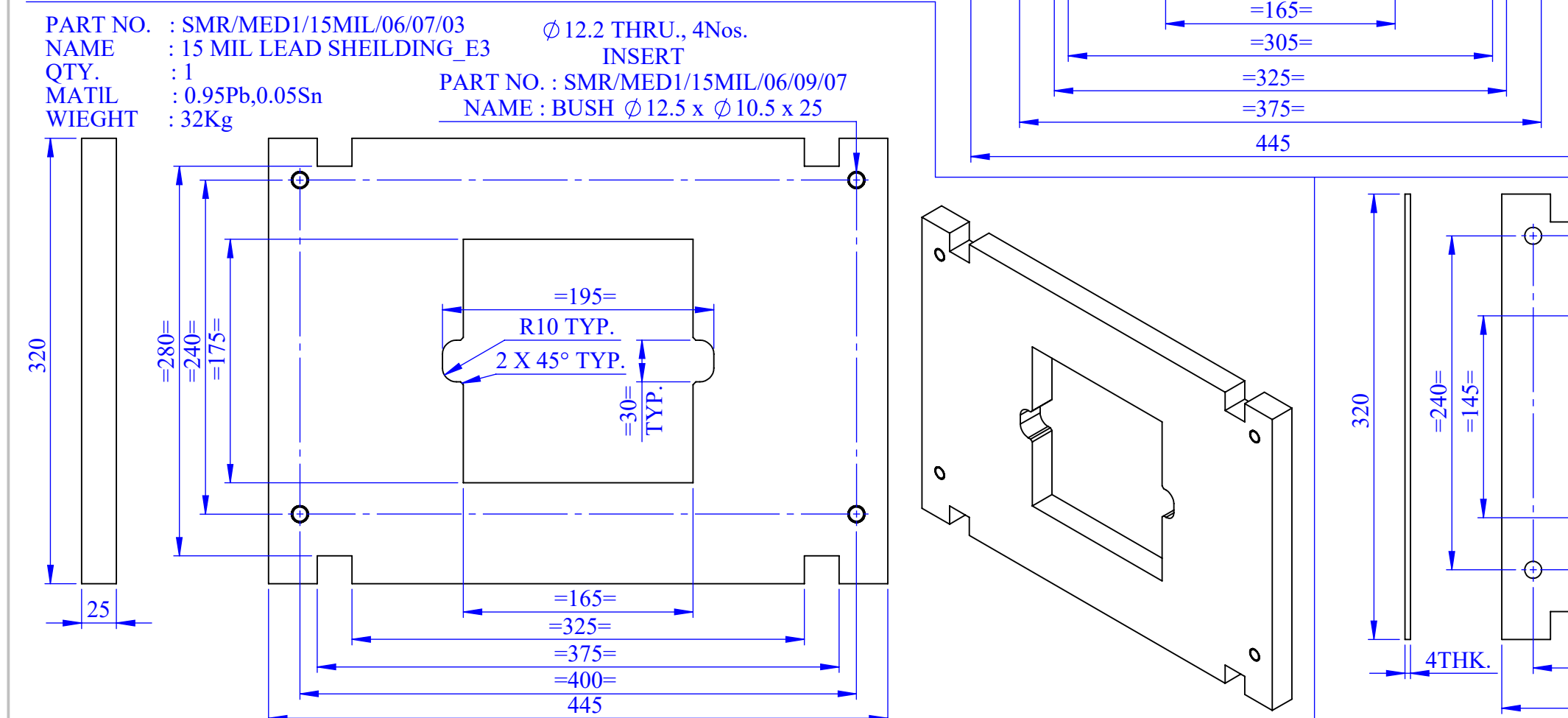
PART NO. : SMR/MED1/15MIL/06/07/01
NAME : 15 MIL LEAD SHEILDING_E1
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 24Kg



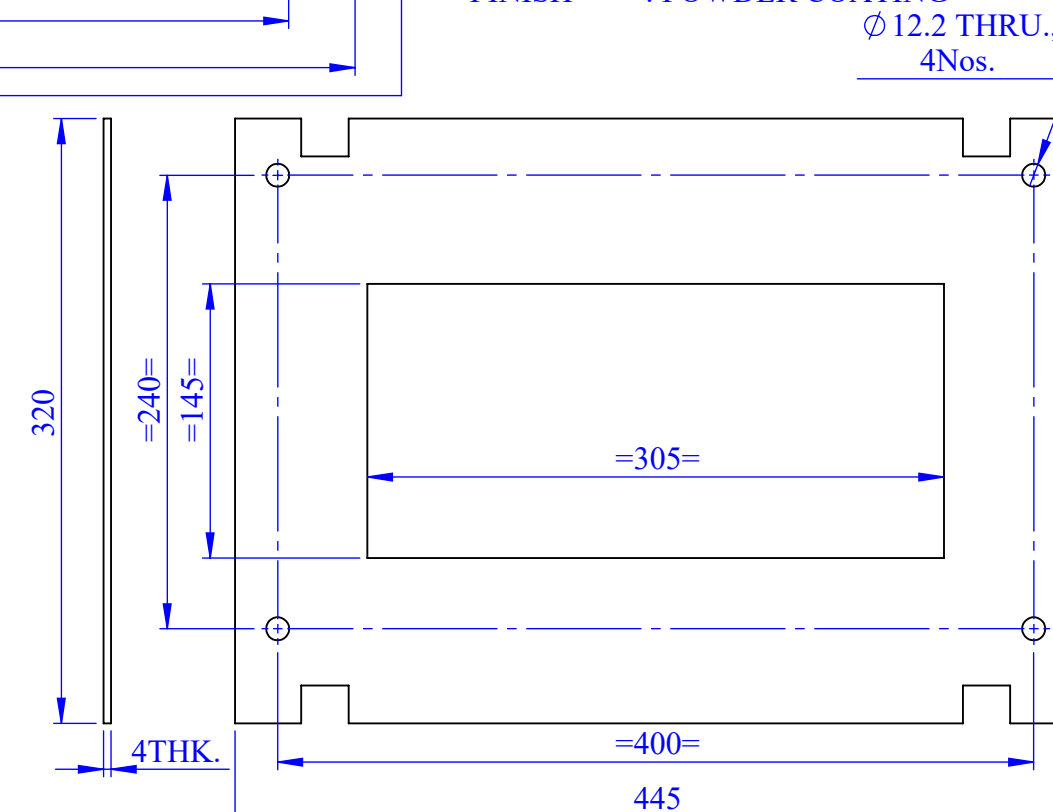
PART NO. : SMR/MED1/15MIL/06/07/02
NAME : 15 MIL LEAD SHEILDING_E2
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 27Kg



PART NO. : SMR/MED1/15MIL/06/07/03
NAME : 15 MIL LEAD SHEILDING_E3
QTY. : 1
MATIL : 0.95Pb,0.05Sn
WIEGHT : 32Kg



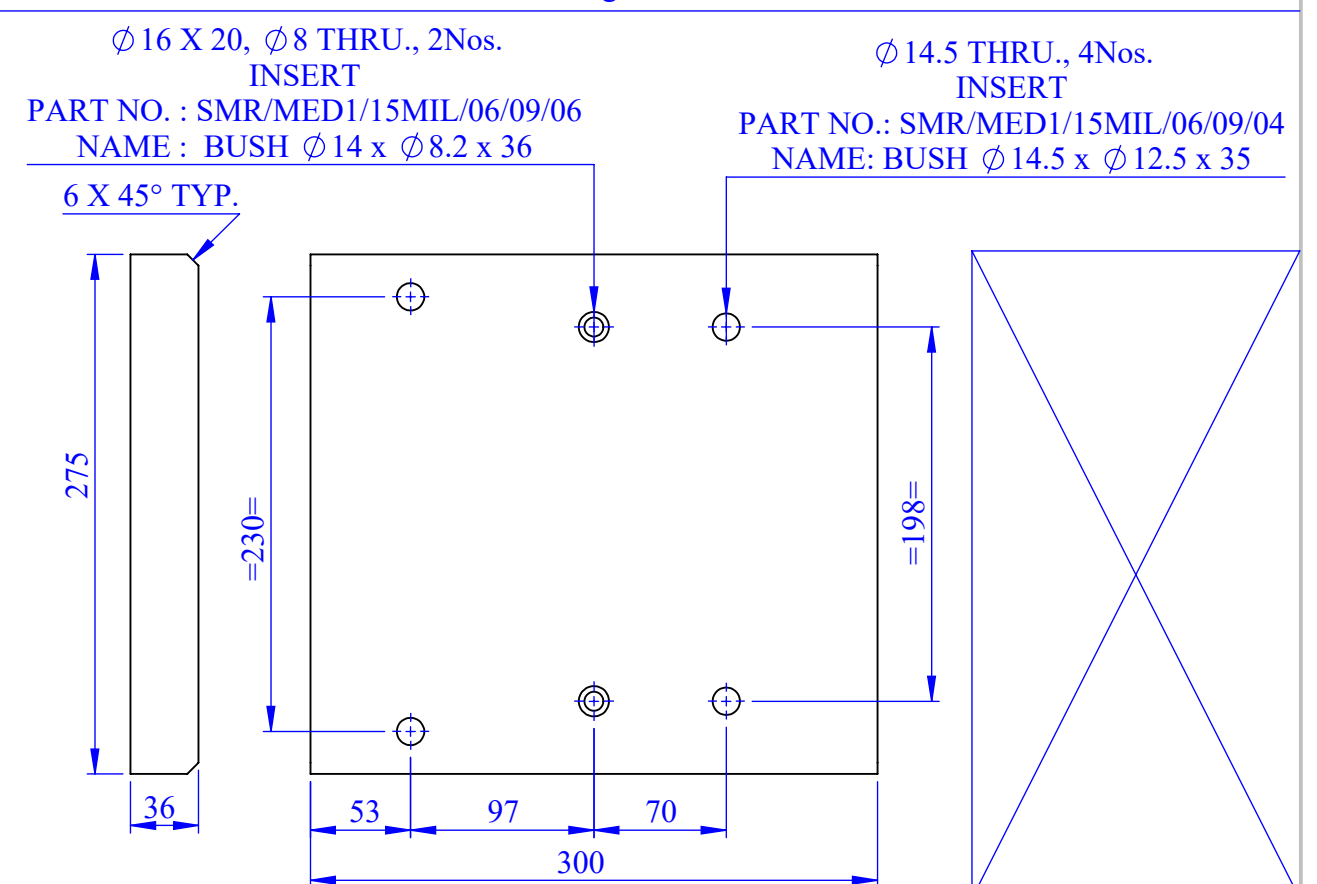
PART NO. : SMR/MED1/15MIL/06/07/04
NAME : WASHER 445 x 320 x 4THK.
QTY. : 1
MATIL : M.S.
FINISH : POWDER COATING



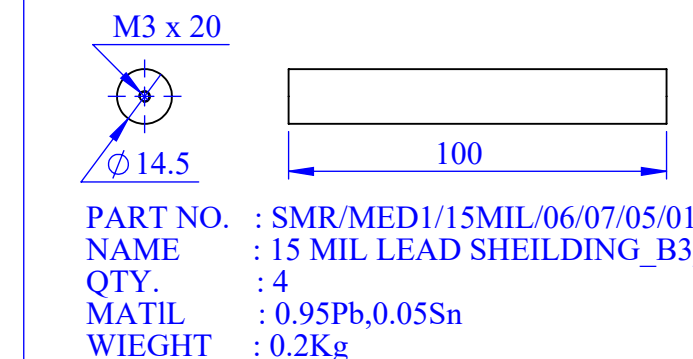
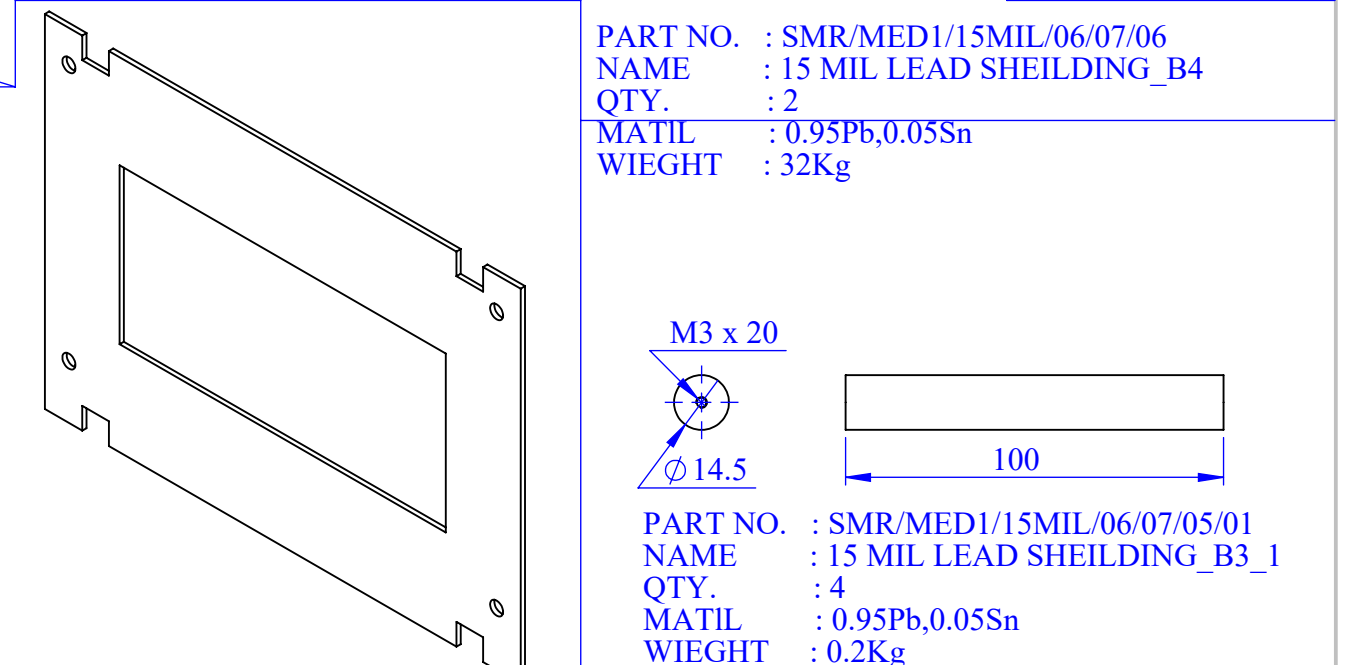
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.

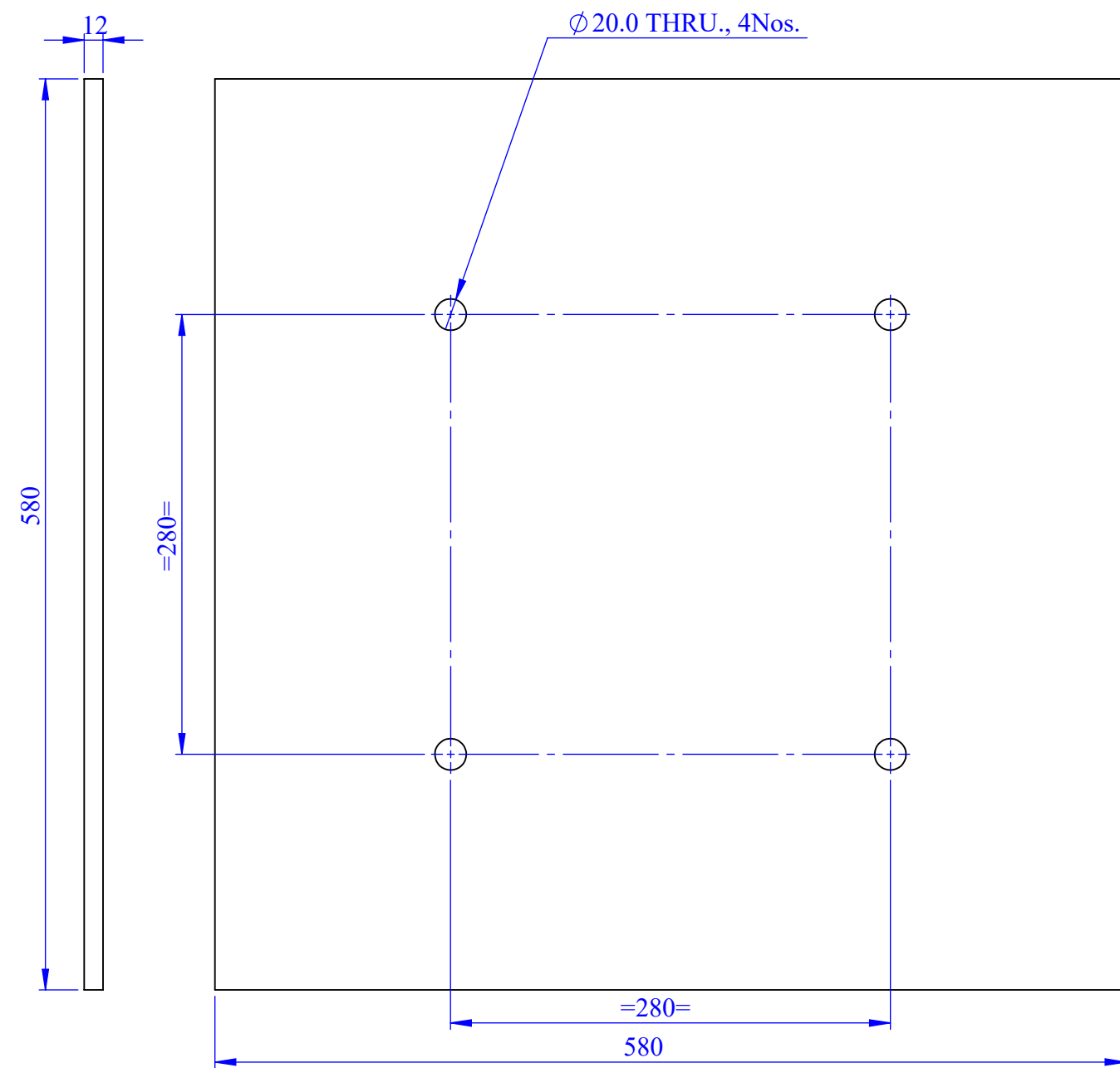
TITLE: 15 MIL LEAD SHEILDING					
ASSLY: LEAD SHEILDING E1 TO E3 & B3, B4 REV					
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN
QTY.	--	SCALE	NTS	WT.	DATE
ALL DIM. ARE IN mm					
DRG.NO. MED1/15MIL/06/07					
FINISH					
FILE:					

PART NO. : SMR/MED1/15MIL/06/07/05
NAME : 15 MIL LEAD SHEILDING_B3
QTY. : 2
MATIL : 0.95Pb,0.05Sn
WIEGHT : 12Kg



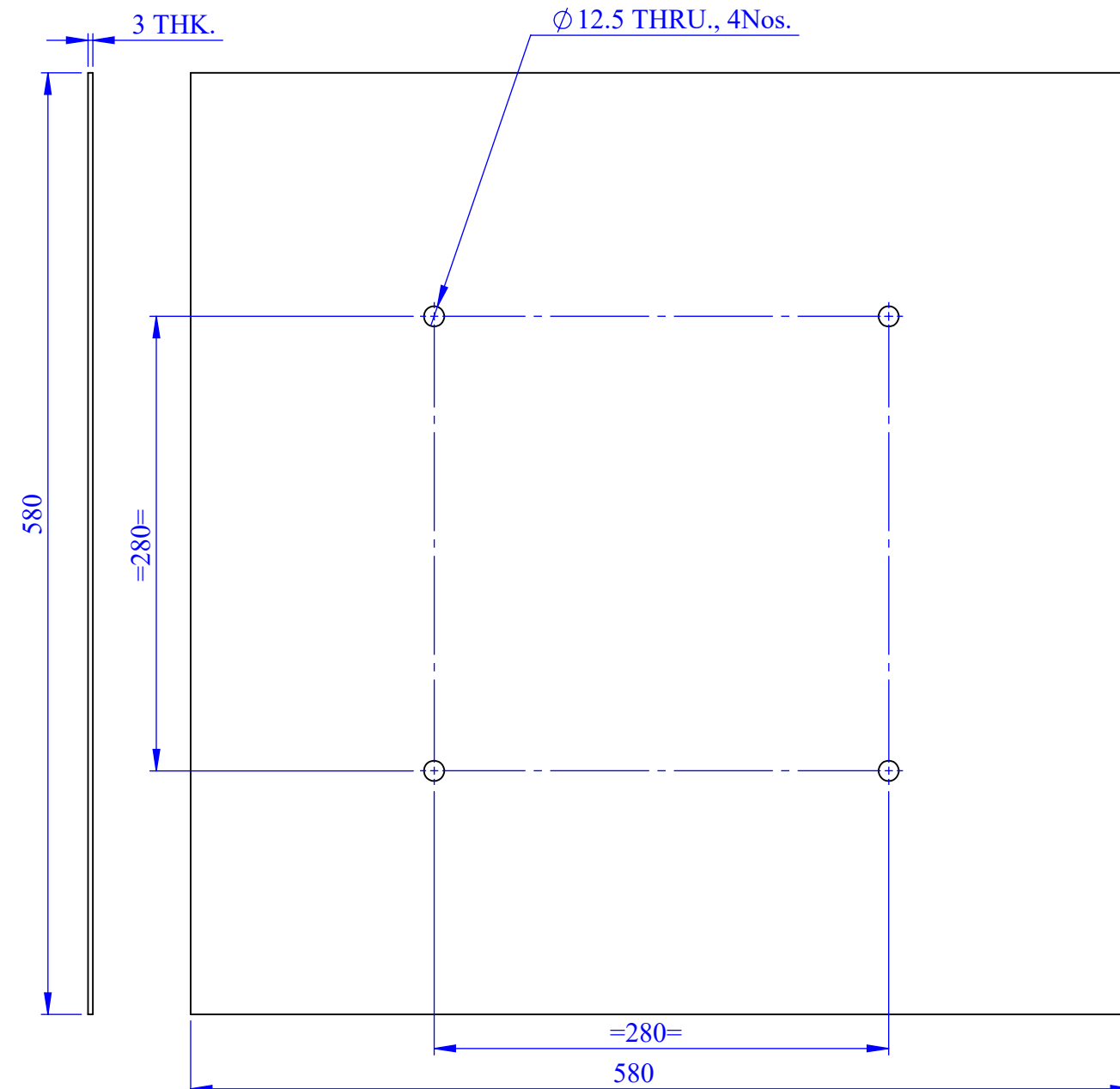
PART NO. : SMR/MED1/15MIL/06/07/06
NAME : 15 MIL LEAD SHEILDING_B4
QTY. : 2
MATIL : 0.95Pb,0.05Sn
WIEGHT : 32Kg





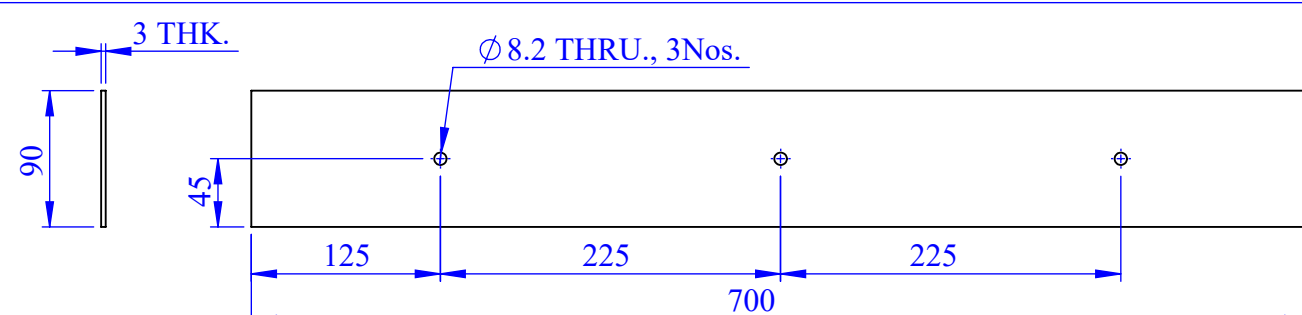
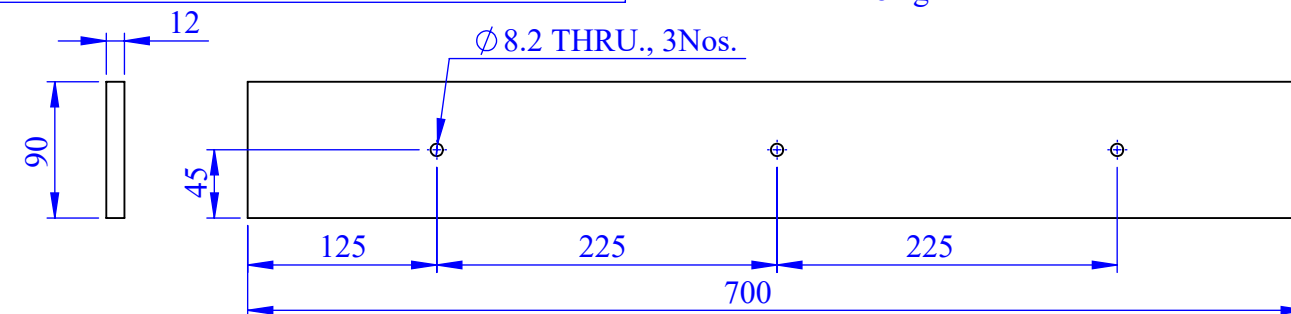
PART NO. : SMR/MED1/15MIL/06/08/01
NAME : 15 MIL LEAD SHEILDING_W1
QTY. : 2
MATIL : 0.95Pb,0.05Sn
WIEGHT : 44Kg

PART NO. : SMR/MED1/15MIL/06/08/02
NAME : 15 MIL LEAD SHEILDING_W2
QTY. : 24
MATIL : 0.95Pb,0.05Sn
WIEGHT : 44Kg



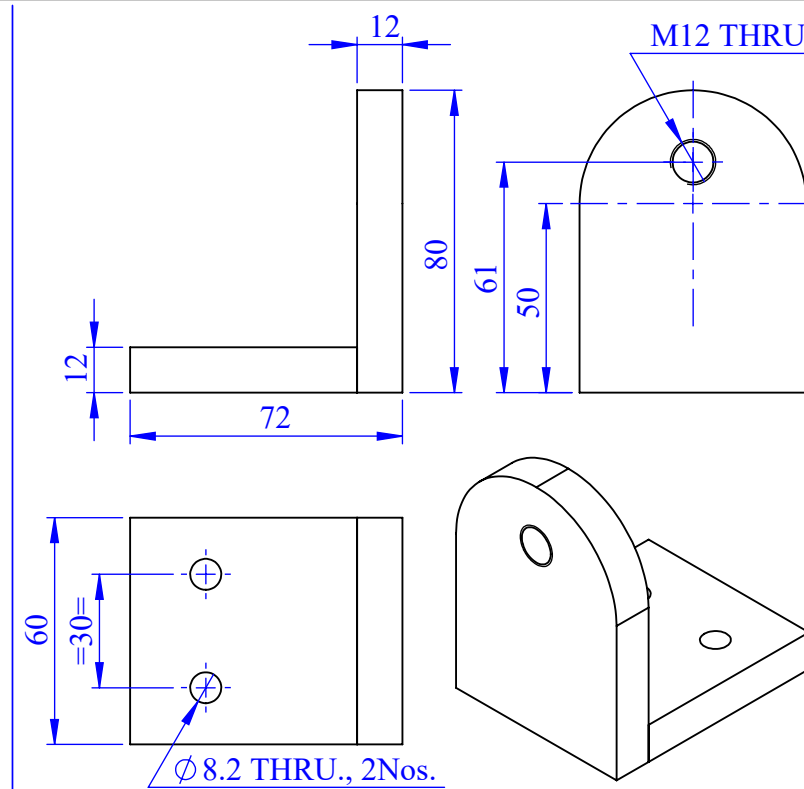
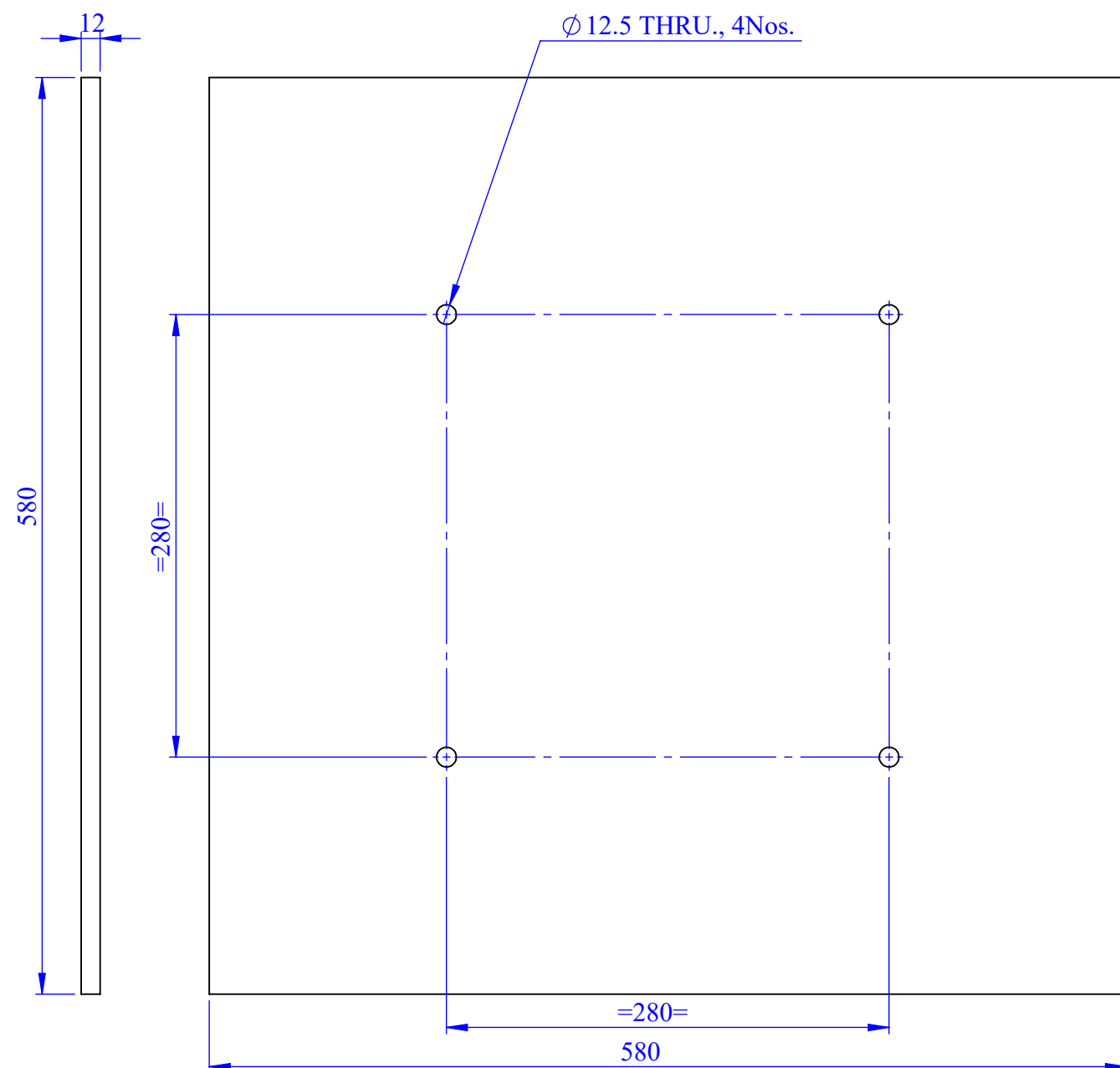
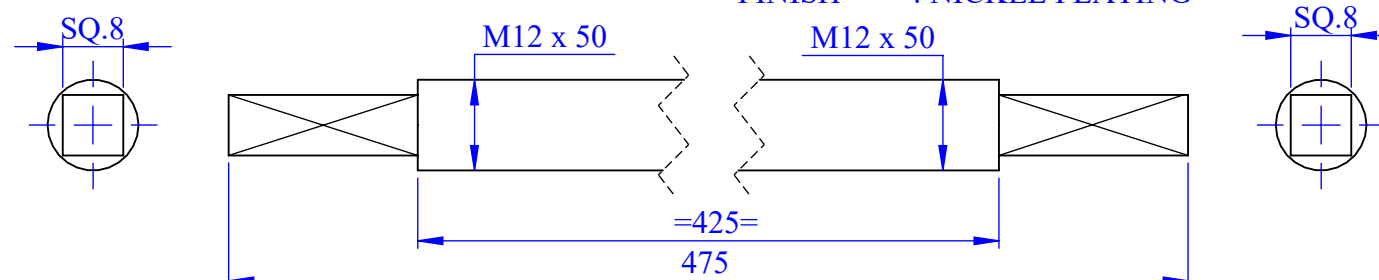
PART NO. : SMR/MED1/15MIL/06/08/03
NAME : WASHER 580 x 580 x 3 THK
QTY. : 2
MATIL : M.S.
FINISH : POWDER COATING

PART NO. : SMR/MED1/15MIL/06/08/04
NAME : 15 MIL LEAD SHEILDING_W3
QTY. : 12
MATIL : 0.95Pb,0.05Sn
WIEGHT : 8Kg

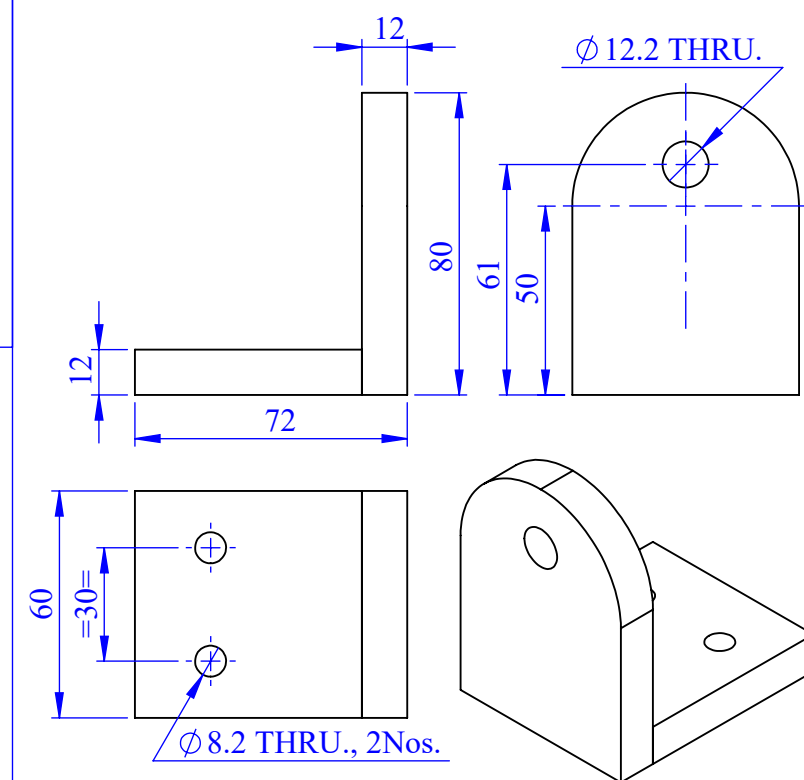


PART NO. : SMR/MED1/15MIL/06/08/05
NAME : WASHER 700 x 90 x 3 THK
QTY. : 2
MATIL : M.S.
FINISH : POWDER COATING

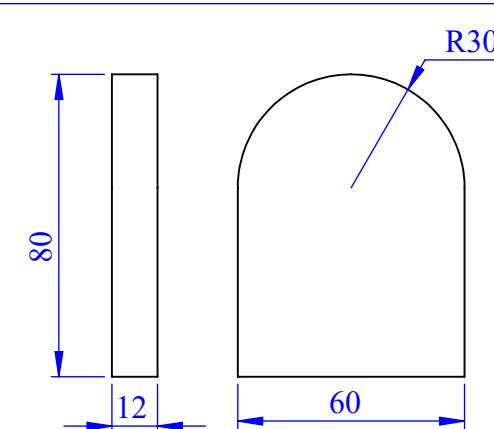
PART NO. : SMR/MED1/15MIL/06/08/06
NAME : STUD M12 x 475
QTY. : 2
MATIL : M.S.
FINISH : NICKEL PLATING



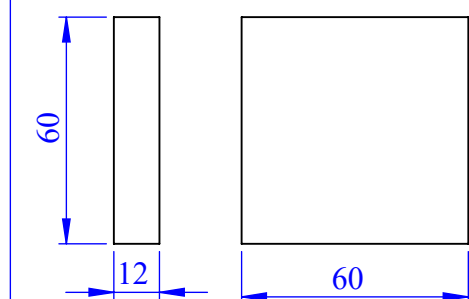
PART NO. : SMR/MED1/15MIL/06/08/07
NAME : SUPPORT_1
QTY. : 2
MATIL : M.S.
FINISH : NICKEL PLATING



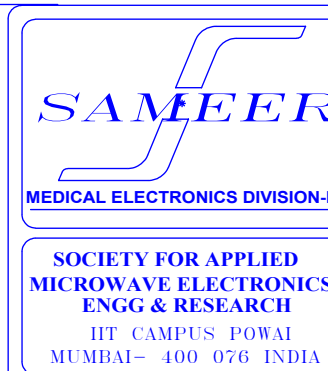
PART NO. : SMR/MED1/15MIL/06/08/08
NAME : SUPPORT_2
QTY. : 2
MATIL : M.S.
FINISH : NICKEL PLATING



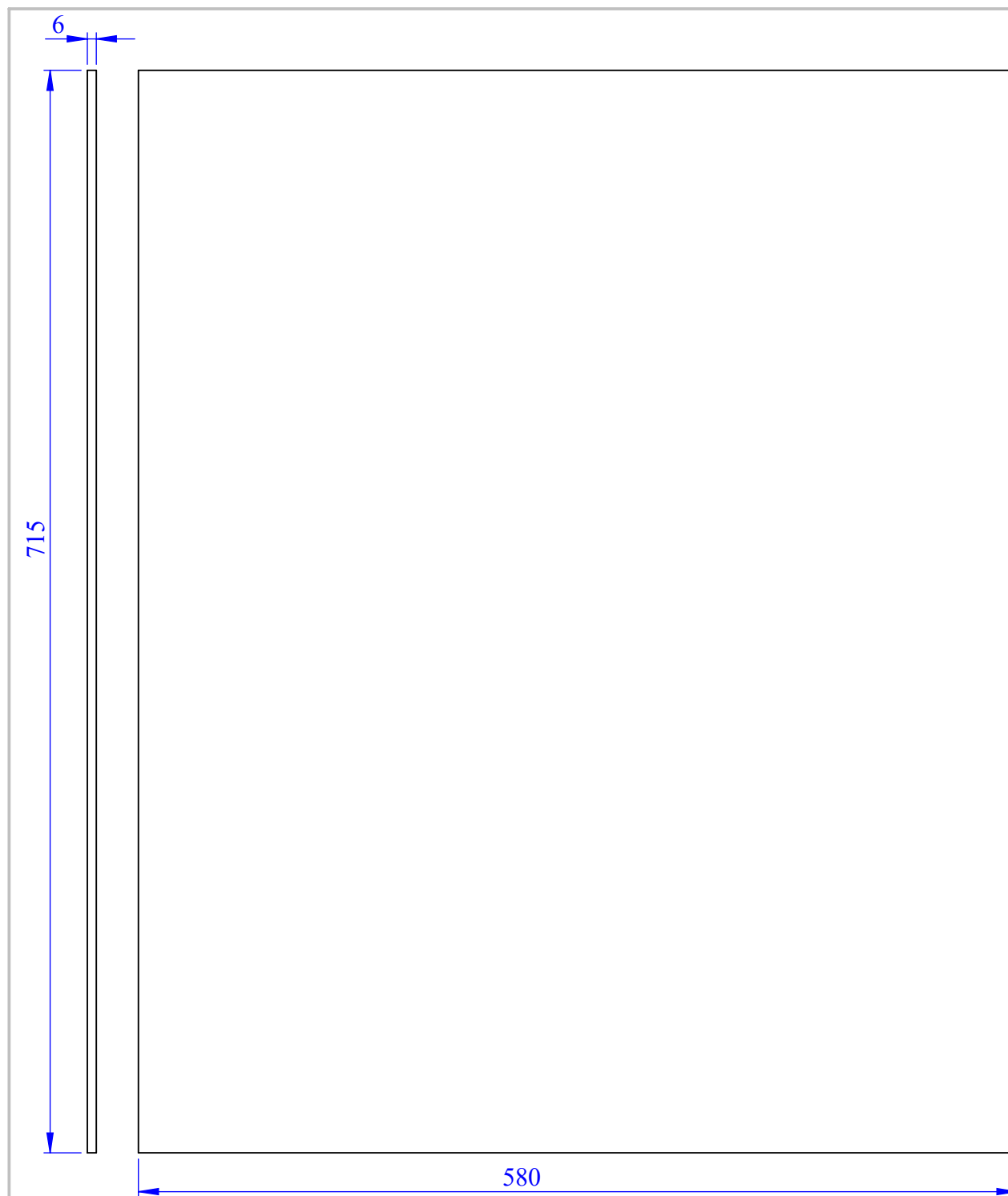
PART NO. : SMR/MED1/15MIL/06/08/07/01
NAME : PLATE 80 x 60 x 12
QTY. : 4
MATIL : M.S.



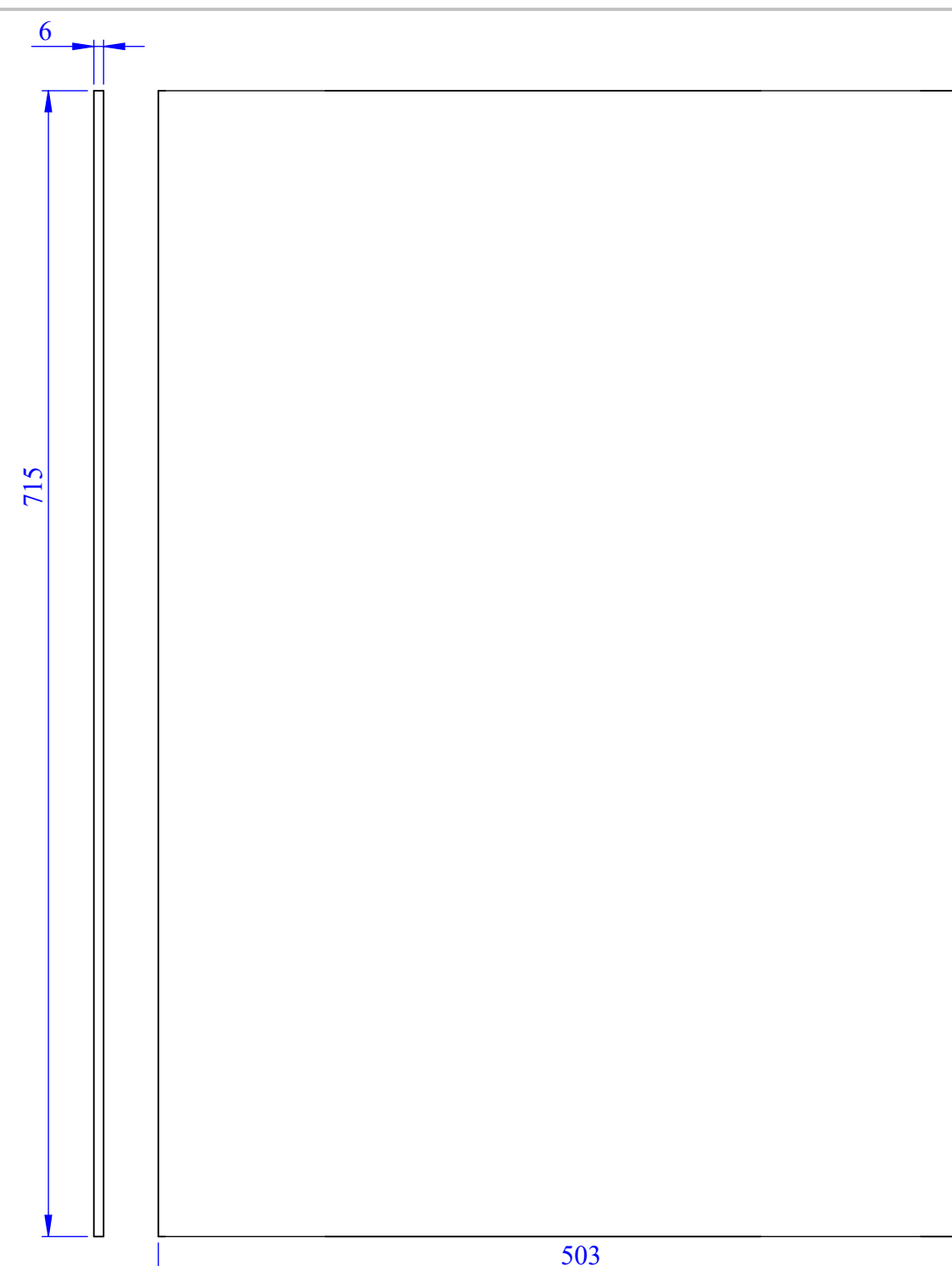
PART NO. : SMR/MED1/15MIL/06/08/07/02
NAME : PLATE 60 x 60 x 12
QTY. : 4
MATIL : M.S.



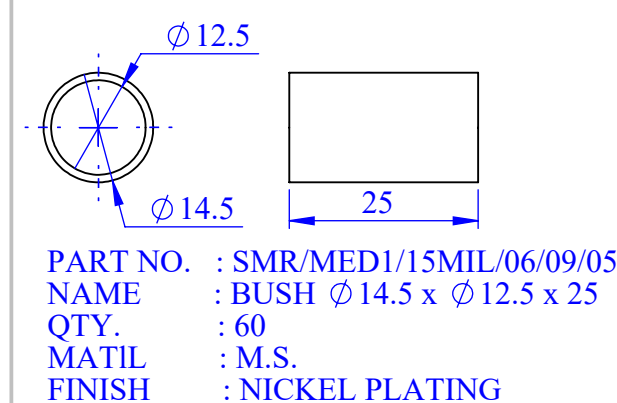
THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORIZATION IN WRITING FROM SAMEER MUMBAI.					
TITLE: 15 MIL LEAD SHIELDING					
ASSLY: LEAD SHEILDING W1 TO W3					
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN
QTY.	--	SCALE	NTS	WT.	
ALL DIM. ARE IN mm					
DRG.NO. MED1/15MIL/06/08					
FINISH					
FILE:					



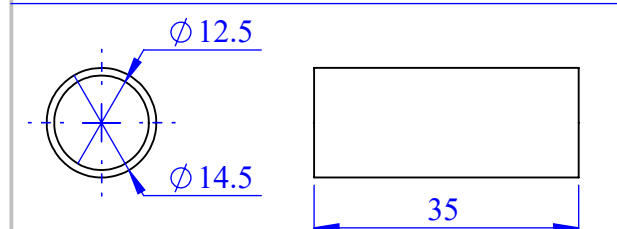
PART NO. : SMR/MED1/15MIL/06/09/01
NAME : 15 MIL LEAD SHEILDING_P1
QTY. : 2
MATIL : 0.95Pb,0.05Sn
WIEGHT : 28Kg



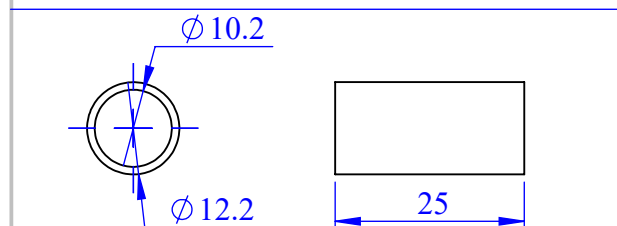
PART NO. : SMR/MED1/15MIL/06/09/02
NAME : 15 MIL LEAD SHEILDING_P2
QTY. : 2
MATIL : 0.95Pb,0.05Sn
WIEGHT : 24Kg



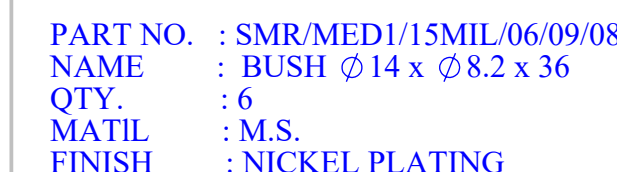
PART NO. : SMR/MED1/15MIL/06/09/05
NAME : BUSH Ø14.5 x Ø12.5 x 25
QTY. : 60
MATIL : M.S.
FINISH : NICKEL PLATING



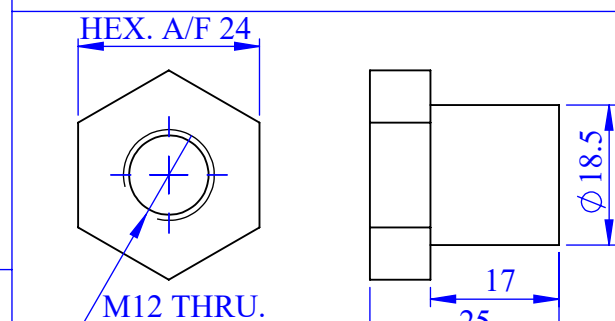
PART NO. : SMR/MED1/15MIL/06/09/06
NAME : BUSH Ø14.5 x Ø12.5 x 35
QTY. : 81
MATIL : M.S.
FINISH : NICKEL PLATING



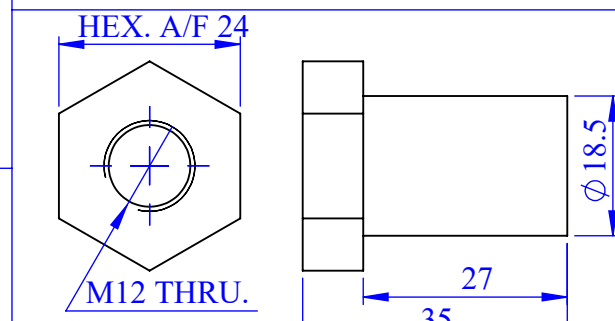
PART NO. : SMR/MED1/15MIL/06/09/07
NAME : BUSH Ø12.5 x Ø10.5 x 25
QTY. : 20
MATIL : M.S.
FINISH : NICKEL PLATING



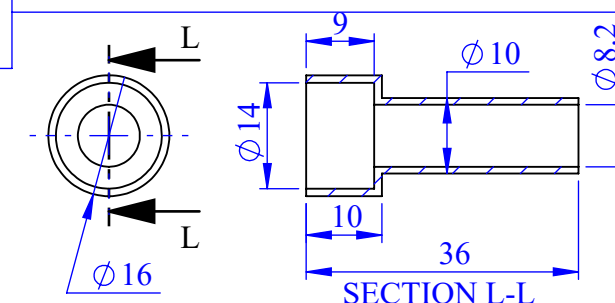
PART NO. : SMR/MED1/15MIL/06/09/08
NAME : BUSH Ø14 x Ø8.2 x 36
QTY. : 6
MATIL : M.S.
FINISH : NICKEL PLATING



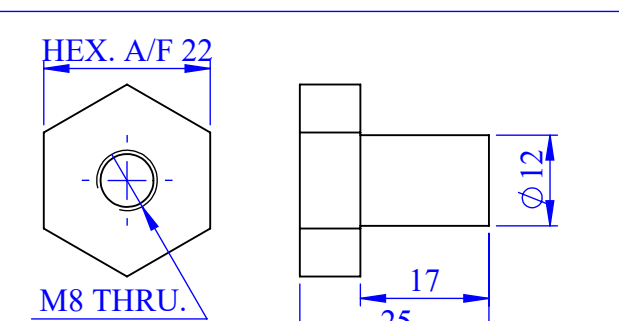
PART NO. : SMR/MED1/15MIL/06/09/09
NAME : M12 INSERT HEX. A/F 24 x 25
QTY. : 12
MATIL : M.S.
FINISH : NICKEL PLATING



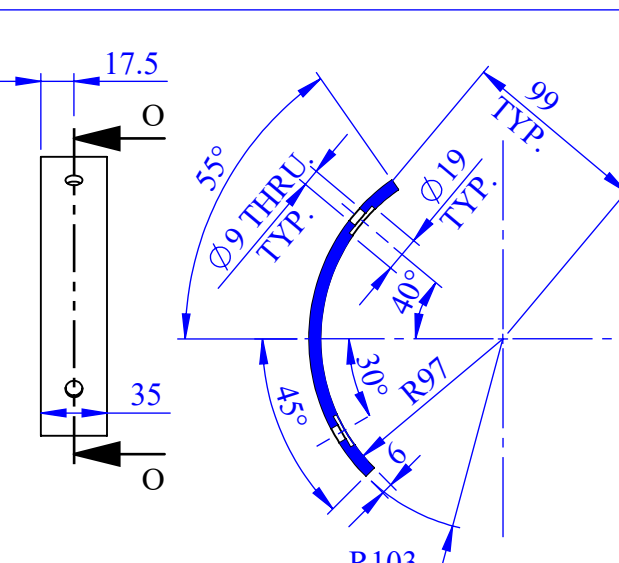
PART NO. : SMR/MED1/15MIL/06/09/10
NAME : M12 INSERT HEX. A/F 24 x 35
QTY. : 12
MATIL : M.S.
FINISH : NICKEL PLATING



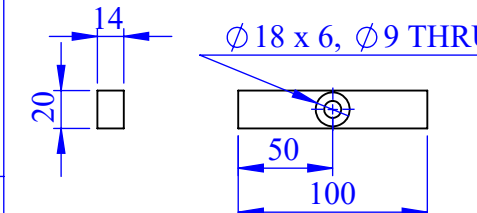
PART NO. : SMR/MED1/15MIL/06/09/11
NAME : M12 INSERT HEX. A/F 24 x 35
QTY. : 12
MATIL : M.S.
FINISH : NICKEL PLATING



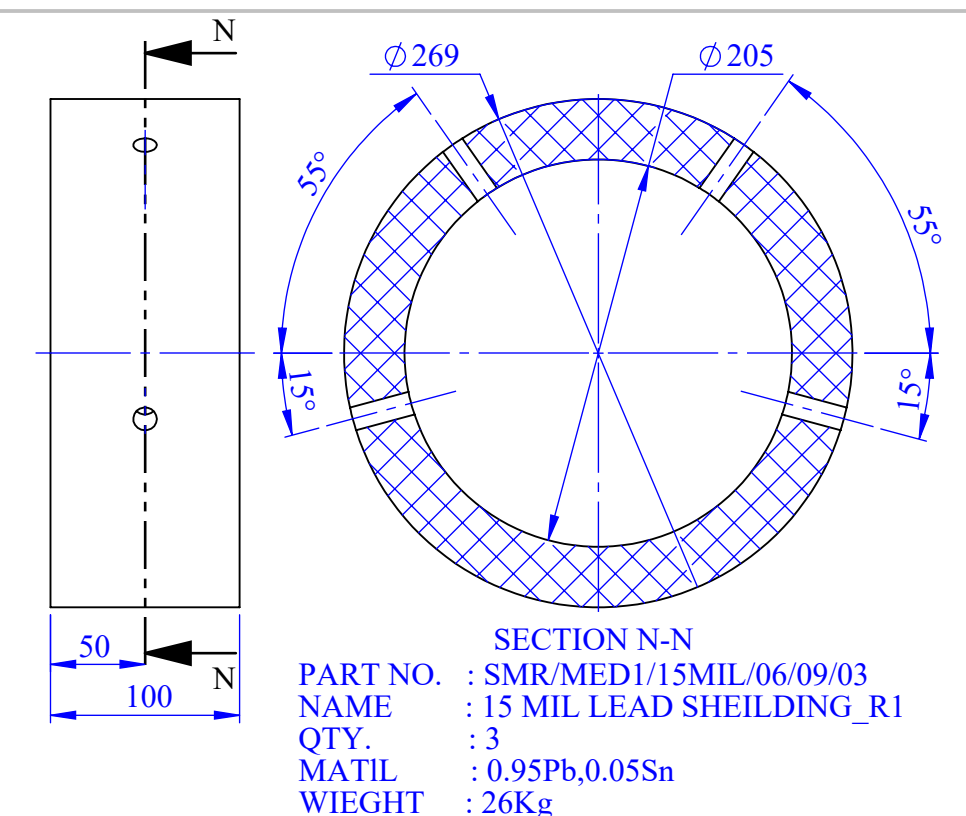
PART NO. : SMR/MED1/15MIL/06/09/11
NAME : M8 INSERT HEX. A/F 22 x 25
QTY. : 24
MATIL : M.S.
FINISH : NICKEL PLATING



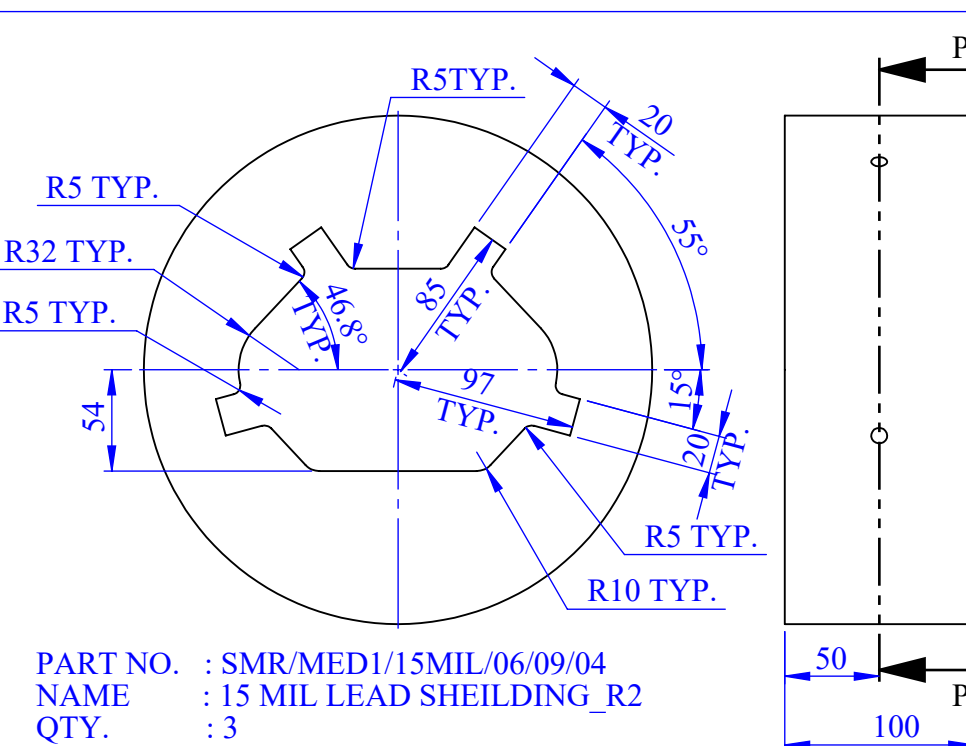
PART NO. : SMR/MED1/15MIL/06/09/12
NAME : RING WASHER
QTY. : 6
MATIL : M.S.
FINISH : NICKEL PLATING



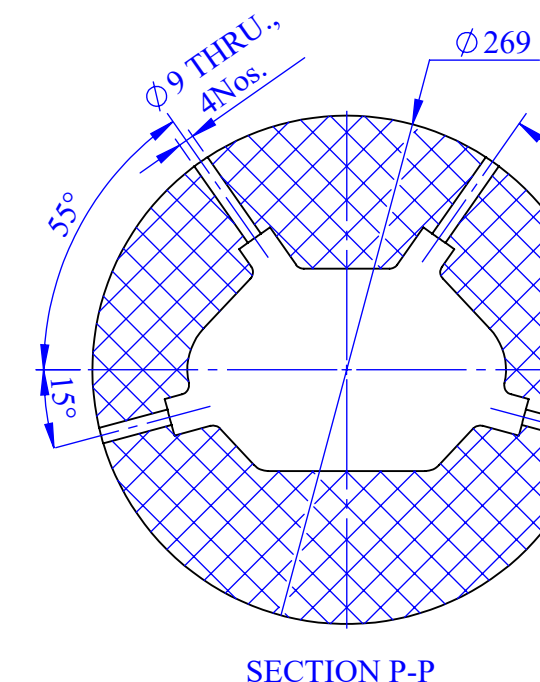
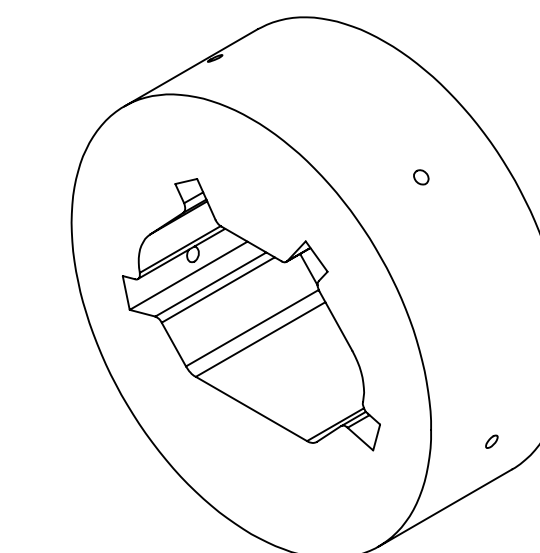
PART NO. : SMR/MED1/15MIL/06/09/13
NAME : FLAT WASHER
QTY. : 12
MATIL : M.S.
FINISH : NICKEL PLATING



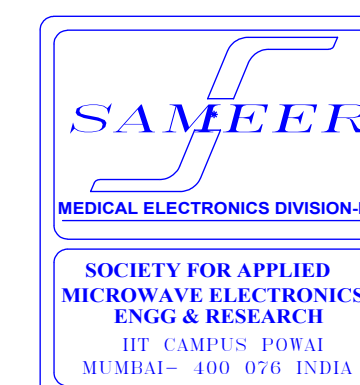
SECTION N-N
PART NO. : SMR/MED1/15MIL/06/09/03
NAME : 15 MIL LEAD SHEILDING_R1
QTY. : 3
MATIL : 0.95Pb,0.05Sn
WIEGHT : 26Kg



PART NO. : SMR/MED1/15MIL/06/09/04
NAME : 15 MIL LEAD SHEILDING_R2
QTY. : 3
MATIL : 0.95Pb,0.05Sn
WIEGHT : 45Kg



SECTION P-P



THE INFORMATION CONTAINED HEREIN IS CONFIDENTIAL PROPERTY OF SAMEER-MUMBAI AND NOT FOR PUBLICATION. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE COPIED OR COMMUNICATED TO A THIRD PARTY WITHOUT THE AUTHORISATION IN WRITING FROM SAMEER MUMBAI.					
TITLE: 15 MIL LEAD SHEILDING					
ASSLY: LEAD SHEILDING P1 AND P2					
MATL.	----	GEN.TOL.	IS: 2102(M)	DRN.	SSN
QTY.	--	SCALE	NTS	WT.	
ALL DIM. ARE IN mm					
DRG.NO. MED1/15MIL/06/09					
REV					
FILE:					