

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY BHABHA ATOMIC RESEARCH CENTRE VISAKHAPATNAM



Date: 07/09/2022

Computational Analysis Division

Ref: CAD/HEDM/WO/IND/22-23/15

SUBJECT: Notice inviting tender for "Fabrication, Machining, supply, & Installation of Mounting structures for electromagnets" (For details see Annexure-I)."

1. Scope of work: (See Annexure-I)".

2. 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 Centre

Village: Madturu (Sub: PO)

Anu Vihar Campus, Mekarasi Hill,

Near Nagavaram Junction,

Nagavaram-Atchutapuram Highway

Visakhapatnam

Andhra Pradesh- 531011

(Kind Attention: Pradeep K Maurya, SO/D,CAD, 0891-283-2148)

- Quotation shall reach us on/or before 20 09 2022 by Speed Post/Courier Only.
- On top left corner of the envelope please indicate

Quotation for - " Fabrication, Machining, supply, & Installation of Mounting structures for electromagnets" and due date 20/09/2022

- 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 and taxes shall be mentioned clearly.
- You may contact us for any clarification before 20 09 2022 (Shri. Pradeep K Maurya, 0891-2832148,9100483817/7382224750, pkmaurya@barc.gov.in

3. Rates:

As per BOQ (Bill of quantity) & Scope of Work.

4. Place of Delivery/Work:

PEB-04, CAD Bhabha Atomic Research Centre Near Nagavaram Junction, Nagavaram-Atchutapuram Highway Visakhapatnam Andhra Pradesh- 531011

5. 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.
 - iii. Declaration confirming filing of Income Tax Return from immediate two preceding years, in accordance with Section 206 AB of the Income Tax Act 1961, has to be submitted in the prescribed proforma along with necessary acknowledgements in support of declaration. In case the aforesaid declaration is not submitted, TDS/TCS shall be deducted at higher rates as instructed under the provisions of Income Tax Act.

6. 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

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.

pradub kumar mawy (Pradeep K Maurya) SO/D, CAD

Phone: 0891-2832148,

Email: pkmaurya@barc.gov.in

SCOPE OF WORK

Subject: Fabrication, Machining, supply, & Installation of Mounting structures for electromagnets Note to the vendor

- a) Pre-bid meeting is recommended: Pre-bid meeting may be held with the indentor for understanding the type of work and availability of facilities for installation.
- b) All tools and machines required for installation has to be brought by the vendor.
- c) As per prevailing security regulations, the contractor is required to obtain valid entry passes from the security section for working inside BARC, for which related documents will be required to be submitted.
- d) Minimum Guarantee/Warranty period of the workmanship shall be One Year from the date of issue of completion certificate.
- e) The quality of workmanship shall conform to high engineering standards and strictly as per instructions of engineer in charge (EIC) of job.
- f) Cost of each item (as in BoQ), along with rate must be mentioned in the quotation.
- g) Installation and commissioning cost must be mentioned in the quotation.

A. BoQ for above subject:

S. No.	Item Description	Quantity
1.	MS Stand	03 Nos.
2.	Height Adjuster	14 set
3.	SS Platform _Type_I	02 Nos.
4.	SS Sliding Rail	02 Nos.
5.	Acrylic Breadboard sheet	06 Nos.
6.	Teflon Insulator Post_Type_I	50 Nos.
7.	SS Platform _Type_II	01 No.
8.	SS Post	16 Nos.
9.	Teflon Insulator post_Type_II	50Nos.
10.	Coaxial Cable termination	04 Nos.
11.	Level Adjuster	02 Nos.
12.	SS Nut Bolts	As mentioned in the details
13.	Installation & Commissioning	Installation of all items is in the supplier's scope.

B. Detail of scope of work.

1) Item(1): Machining, fabrication, supply, & Installation of MS Stand_Type_I

Drg. No	Title	Main features	Quantity(Nos.)
01	MS Stand	1. Material: MS	03 Nos.
		2. Framing: Using C-Channels of size 75X75X40X5mm	
		3. Fabrication : Through Welding	
Note:			NA
• All th	e dimensions m	ust be strictly ensured.	
A bas	se plate of 125x1	25x15mm is to be welded to the legs(6Nos.).	
• Thro	igh holes are t	o be provided on channels wherever necessary to fasten	
platfo	orms.		
Tolerances:			
• Prope	er Surface levelli	ng must be insured.	

2) Item(2): Machining, fabrication, Supply and installation of Height adjuster

Drg. No.	Title	Main Features	Quantity
02-07	Height adjuster	1. Material: MS 2. Size: 80mmX155mm±25mm	14 set
Note:			

- Fabrication should be done as per drawing no. 02-07.
- Proper fitting & working must be insured.
- Handle/Handle bars are to be provided wherever necessary
- Joints can be made by welding or by bolting.
- Bearings should be provided as mentioned in the drawing. Type of bearing should be strictly adhered to.

Installation work:

• Fitting jobs required for mounting on MS Stand at site is in the suppliers scope.

3) Item(3): Machining, fabrication, Supply and installation of SS Platform _Type_I

Drg. No.	Title	Main features	Quantity(Nos.)
08	SS Platform_ Type_I	1. Material: SS304	02 No.
		2. Overall Size: 1300mmX500mm	
Tolerances:			02 set
• Surface t	finish must be within 20micron	s.	
Note:			
• Fabricati	on can be done in parts. Each p	part is to be attached by TIG welding.	
• Perpendi	cularity must be maintained wi	thin 0.1mm.	
Installation	work:		
• Drilling	and bolting with MS Frames is	s in the supplier's scope.	

4) Item(3): Machining, fabrication, Supply and installation of SS Sliding Rail

Drg. No	Title	Main features	Quantity(Nos.)
09	SS Sliding Rail	1. Material: SS304	02 No.
		2. Size:1300mmX220mm	
	;	3. M10 tapping	
Note:			02 set
	• Fabrication has to be de	one in single piece only.	
Tolerances	•		
	 Surface finish must be 	within 20microns.	
	No welding.		
	• Perpendicularity must	be maintained within 0.1mm.	
Installation	work:		
	 Bolting with SS Plats 	Form is in the supplier's scope.	

5) Item(4): Machining, fabrication, Supply and installation of Acrylic Breadboard Sheet

Drg. No.	Title	Main Features	Quantity
10	Acrylic Breadboard sheet	1. Material: Acrylic	06 Nos.
		 Size: 1300mm(length)X22.5mm M6X25mm Tapping 	
Installation	work:		
• Fittin	ng jobs required for mounting on	SS Platform at site is in the suppliers scope.	

6) Item(5): Machining, fabrication, Supply and installation of Teflon Insulator Post_Type_I

Drg. No.	Title	Main Features	Quantity
11	Teflon Insulator	1. Material: Teflon	50 Nos.
	Post Type I	2. Size: 100mm(length)X25mm dia.	
		3. M8X25mm Tapping with spring insert.	
Installation	work:		
• Fittir	ng jobs required for mountin	g on SS Platform at site is in the suppliers scope.	

7) Item(7): Machining, fabrication, Supply and installation of SS Platform Type II

Drg. No.	Title	Main features	Quantity(Nos.)
12	SS Platform Type II	1. Material: SS304	01 No.
		2. Overall Size:Dia.1300mmX500mmX22.5mm	
		3. M10 tapping and through Holes-40mm	
Tolerances:			01 No.
 Surface t 	finish must be within 20microns.		
Installation	work:		
• Drilling	and bolting with MS Frames will	be is in the supplier's scope.	

8) Item(8): Machining, fabrication, Supply and installation of SS Posts

Drg. No.	Title	Main Features	Quantity
13	SS Post	1. Material: SS304	16Nos.
		2. Size: 75mmX50mmX280mm	
	1	3. Vertical grooves.	
Note:		# 1	16Set
• Fabricati	on can be done in 2 part	s. Each part attached by TIG welding.	
Tolerance			
 Perpendi 	cularity must be maintai	ned within 0.05mm.	

9) Item(9): Machining, fabrication, Supply and installation of Teflon Insulator Post_Type_II

Drg. No.	Title	Main Features	Quantity
14	Teflon Insulator Post	1. Material: Teflon	50Nos.
	Type II	2. Size: 125mm(length)X25mm dia.	
		3. M8X25mm Tapping with spring insert	
Installation	work:		, , ,
• Fitti	ng jobs required for mounting of	on SS Platform at site is in the suppliers scope.	

10) Item(10): Machining, fabrication, Supply and installation of coaxial termination

	g. No	Title	Main features	Quantity(Nos.)
	15	Coaxial cable_ Acrylic Base	Material: Acrylic	04
			2. Size:100x500x50mm	
			3. Circular slot	
	16	Coaxial cable_SS flange-1	1. Material: SS 304	04
		_	2. Size:Dia.80x10mm	
		i	3. 8.5mm through holes	
	16	Coaxial cable SS flange-2	1. Material: SS 304	04
			2. Size:Dia.80x10mm	
			3. M8 tapping	
Sur	ply: Cable	gland (SpecificationPG29 cab	le gland)	04
Ins	tallation wo	rk:		04 Set
i.	The SS flar	nges should sit within close clear	rance inside the circular slot in acrylic base.	
ii.	The PG29	cable gland must be threaded to	acrylic base.	
iii.	Cutting, dr	illing, fitting jobs required for a	mounting on acrylic sheet at site is in the suppliers	
	scope			

11) Item(11): Machining, fabrication, Supply and installation of level adjuster

1. Material: MS	02 set
2. Size: 700mmX134mm	

- Proper fitting & working must be insured.
- Handle/Handle bars are to be provided wherever necessary
- Joints can be made by welding or by bolting.
- Bearings should be provided as mentioned in the drawing. Type of bearing should be strictly adhered to.
- Bearing at the bottom of 'Base Rail' has to be provided separately.

Installation work:

• Fitting jobs required for mounting on MS Stand at site is in the suppliers scope.

12) Supply of SS Nut Bolts

S. No.	Item	Size	Material	Quantity (nos.)
1.	M06 Nut(1), Bolt(1), Spring washer (1), plain washer (2),	25mm	SS	50Set.
	(Allen head)			
2.	M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2),	40mm	SS	50Set.
	(Hex head)			
3.	M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2),	125mm	SS	50Set.
	(Hex head)			
Installa	tion:			
•	Fastening (Bolts, Nut, washers etc) is in the supplier scope.	† · · · · · · · · · · · · · · · · · · ·		

13) Installation & Commissioning

"	Instanat	ation & Commissioning				
	S. no.	Installation work				
Ī	01	Installation work for each item is mentioned above for each item.				
-		Assembly of individual item may be done either at purchaser's site or at supplier's site.				
Ţ	02	Fitting Work (fitting and supply of fasteners) includes;				
١		1. Drilling, cutting, fitting, fastening etc.				
		2. All work must be carried under the instruction of Engineer in charge of site.				
		3. All safety measures (provision of safety shoes, gloves, goggles etc. to the fitter) must be ensured				
		by the supplier.				

General requirements:

h) Finished products should be delivered to the address given below address.

Stores Officer,

Bhabha Atomic Research Center,

Near Nagavaram Junction, ,

Nagavaram-Atchutapuram Highway

Visakhapatnam,

Andhra Pradesh- 531011

Phone: 0891-283-1011

i) Contact Persons:

Shri. Pradeep K Maurya

SO/D, Computational Analysis Division, BARC-Vizag

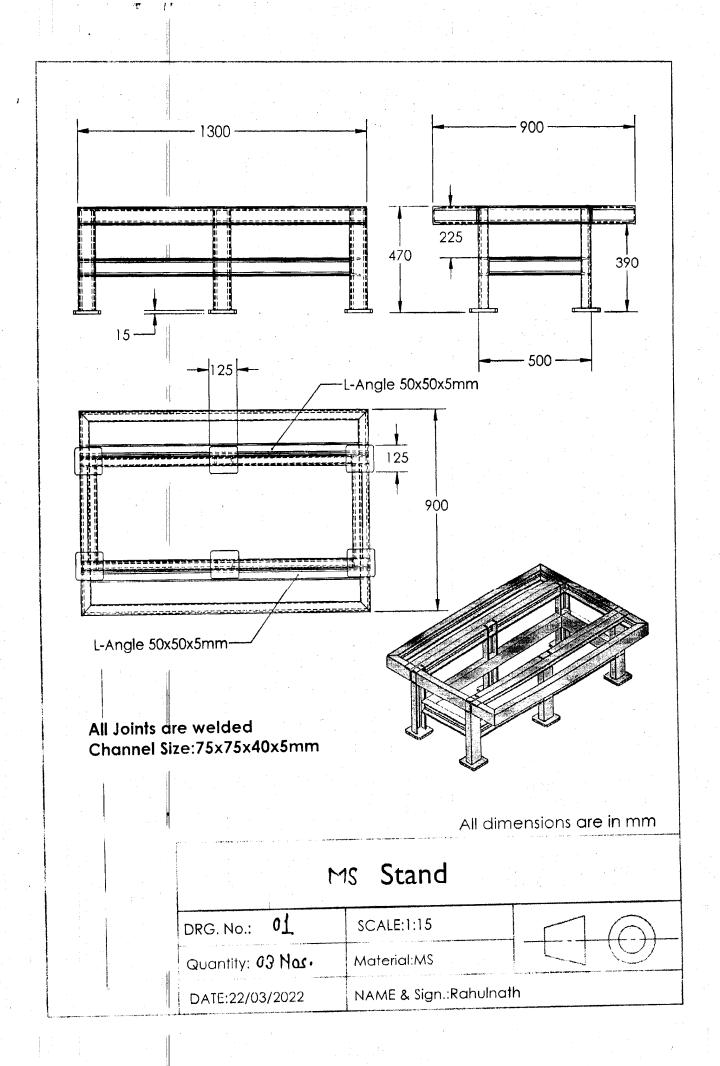
Contact details: pkmaurya@barc.gov.in
Phone: 0891-283-2148, 9100483817

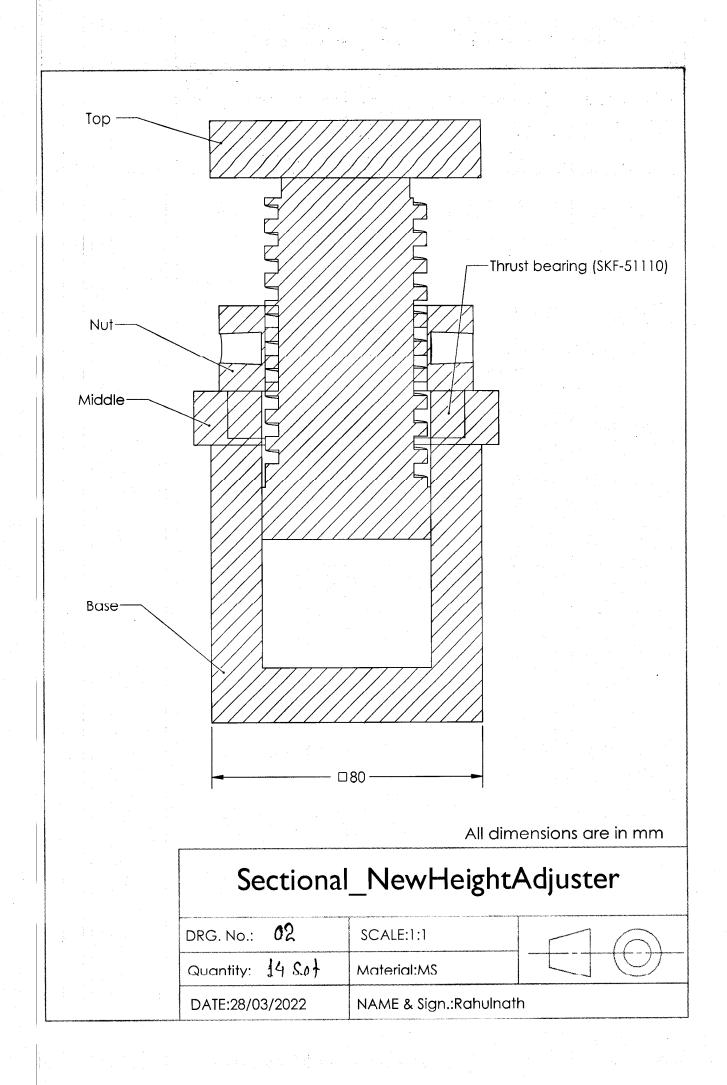
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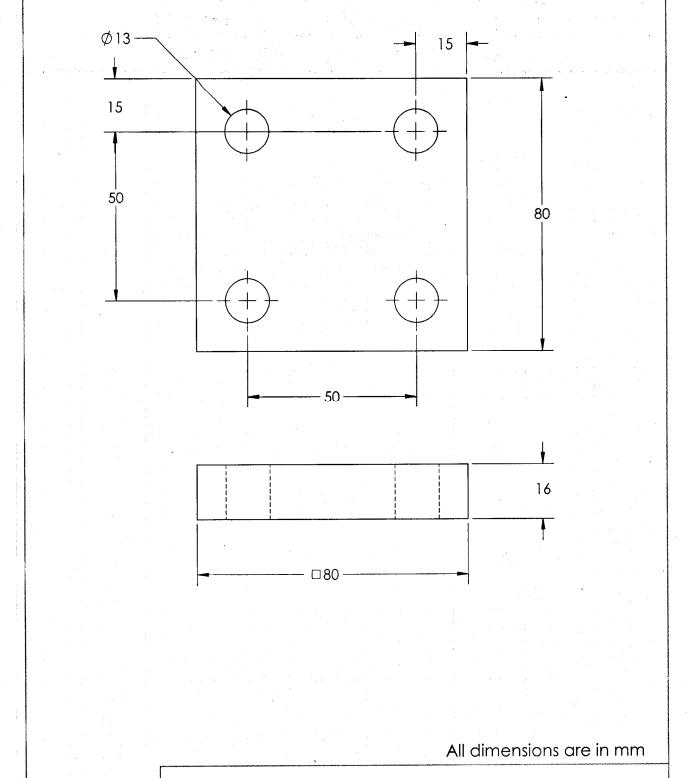
(Pradeep K Maurya)

SO/D, CAD

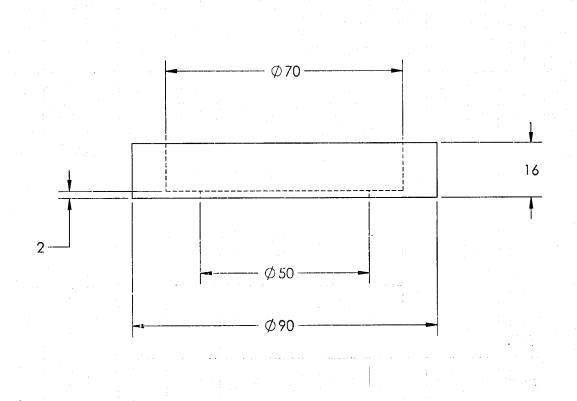
Indentor





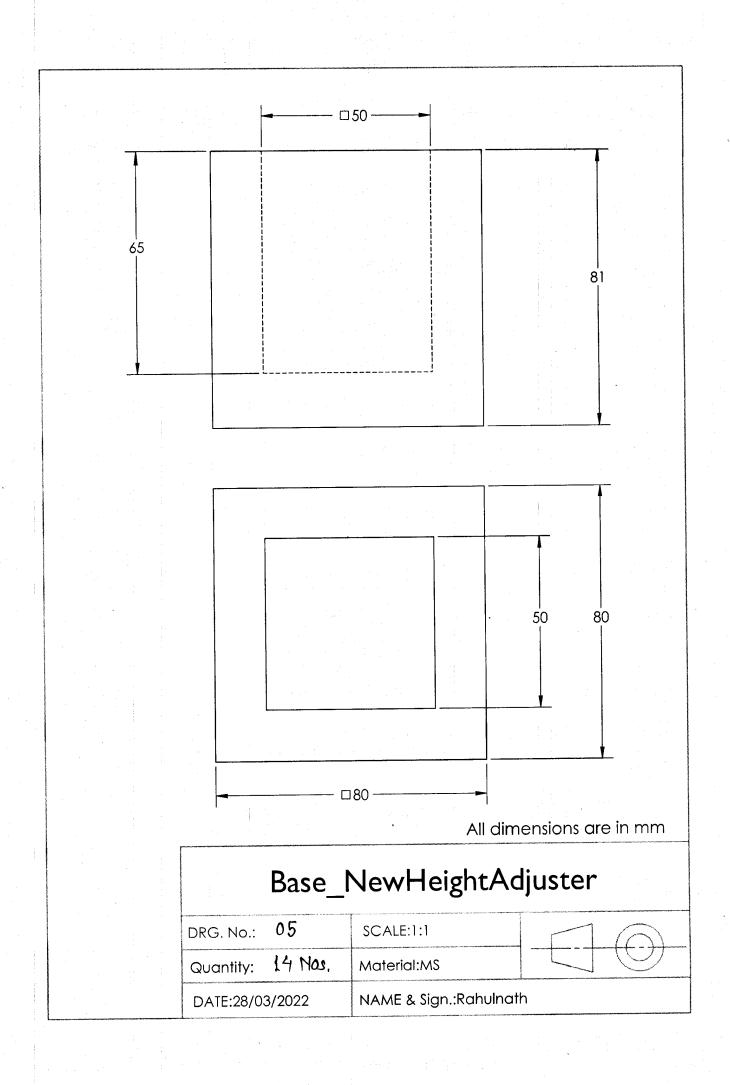


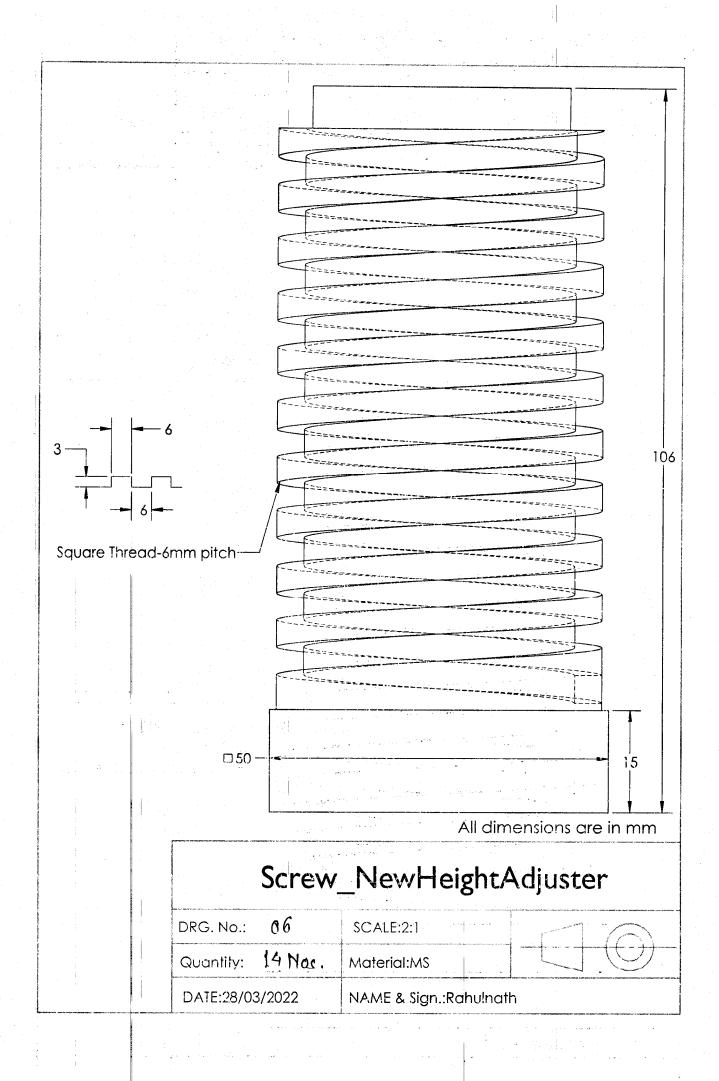
Top_NewHeightAdjuster				
DRG. No.: 0 3	SCALE:1:1			
Quantity: 14 Nos.	Material:MS			
DATE:28/03/2022	NAME & Sign.:Rahulnat	h		

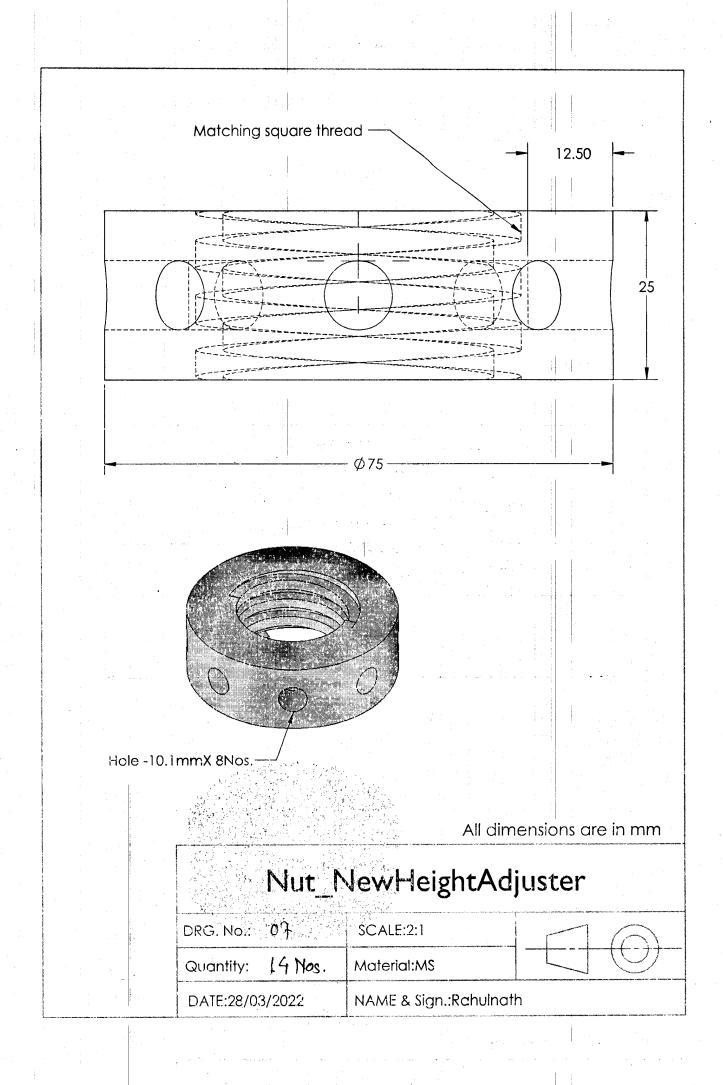


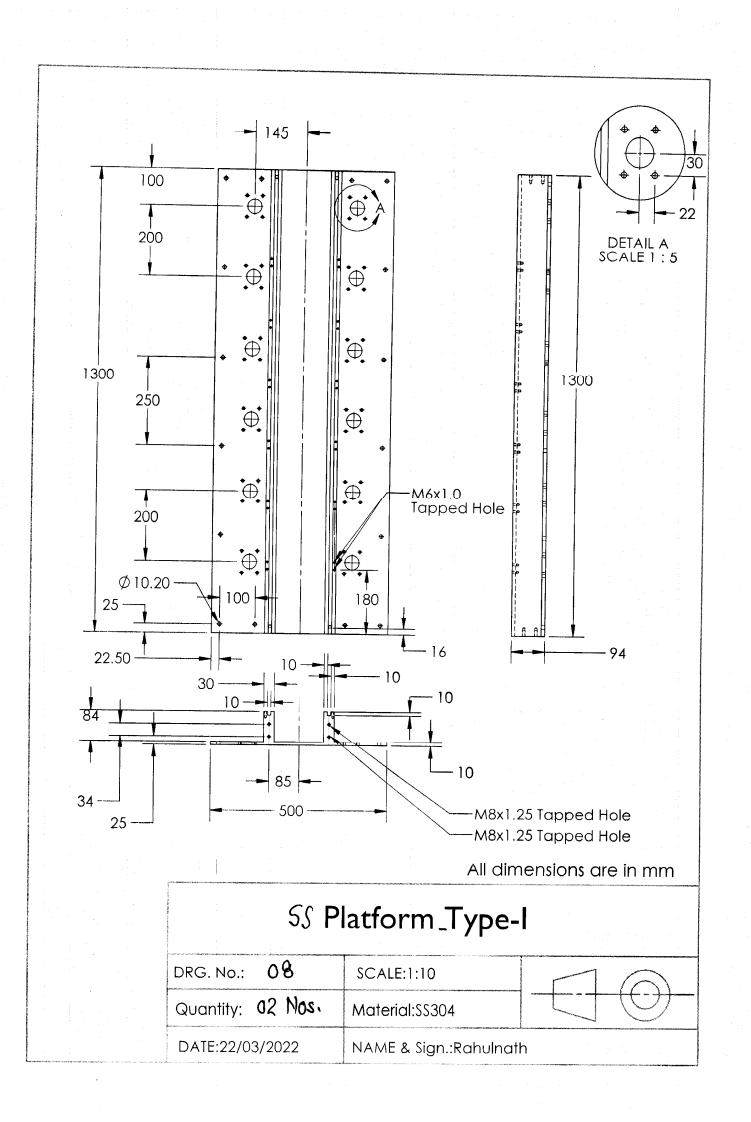
All dimensions are in mm

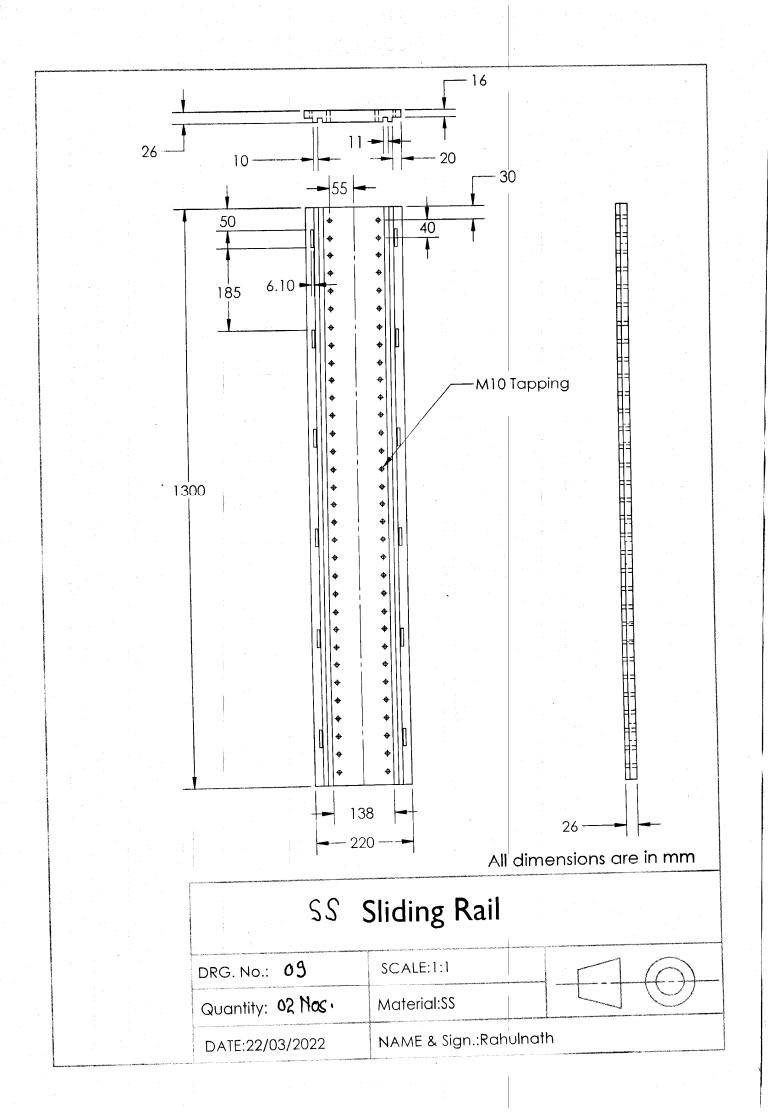
Middle_NewHeightAdjuster DRG. No.: 04 | SCALE:1:1 | Quantity: 14 Nos. | Material:MS | DATE:28/03/2022 | NAME & Sign.:Rahulnath

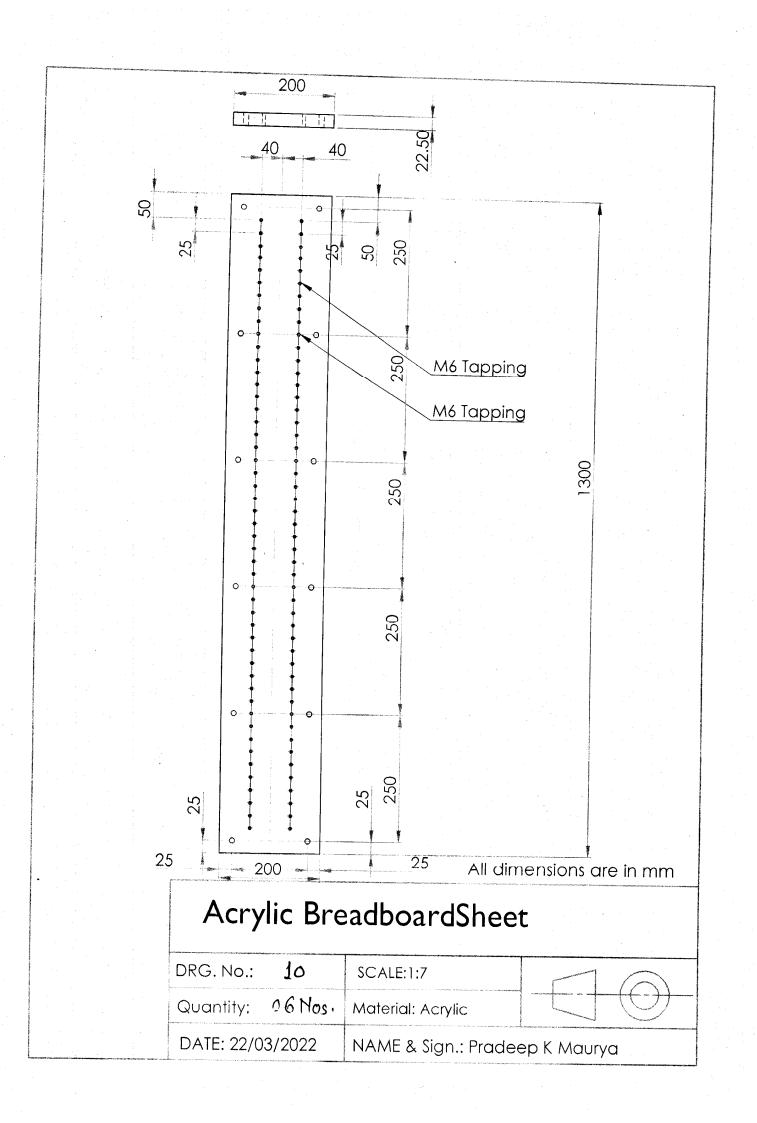


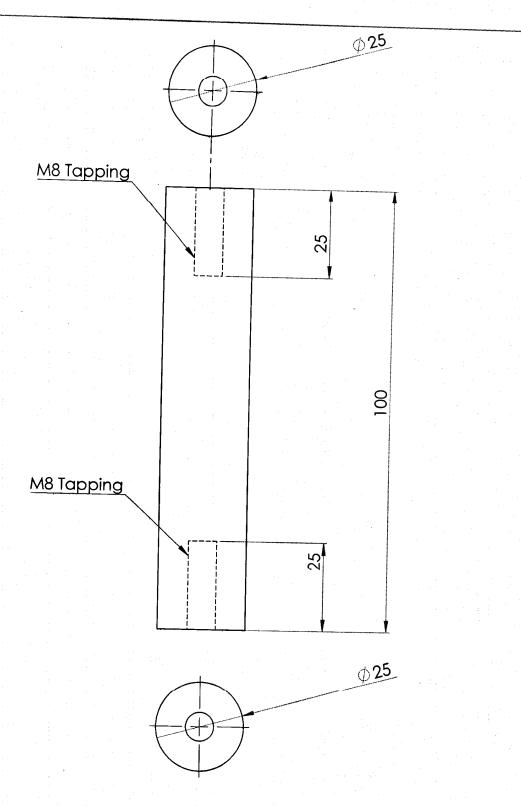






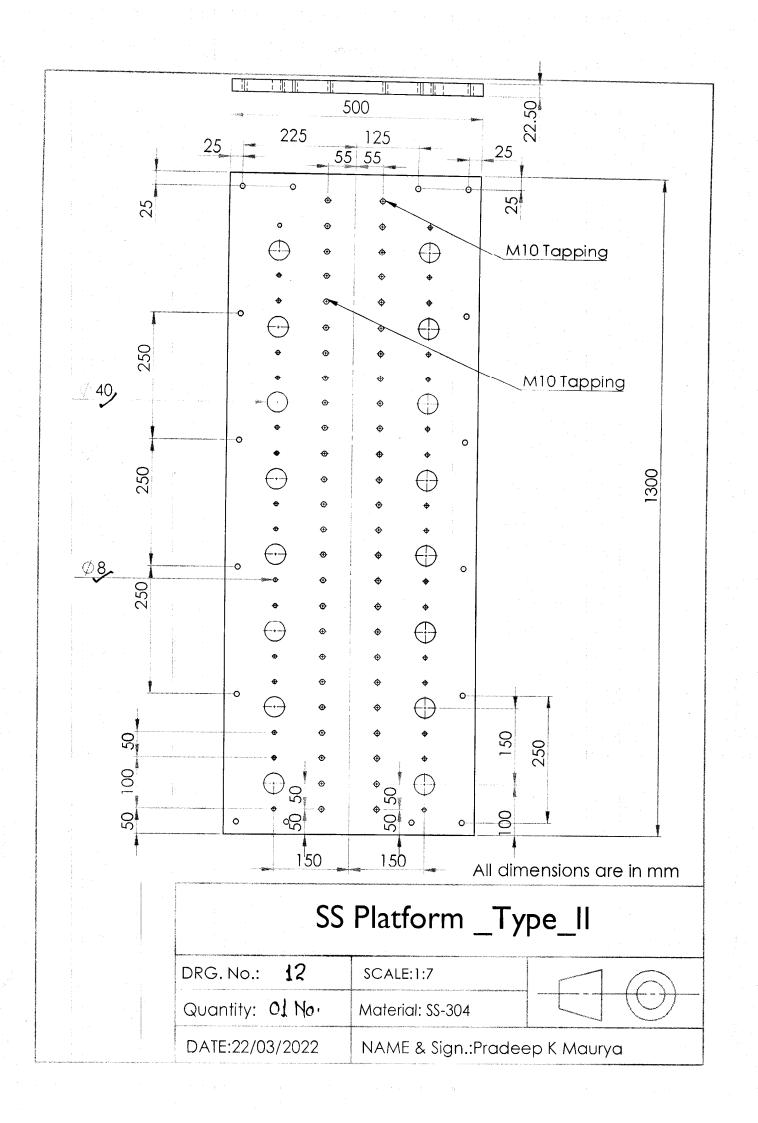


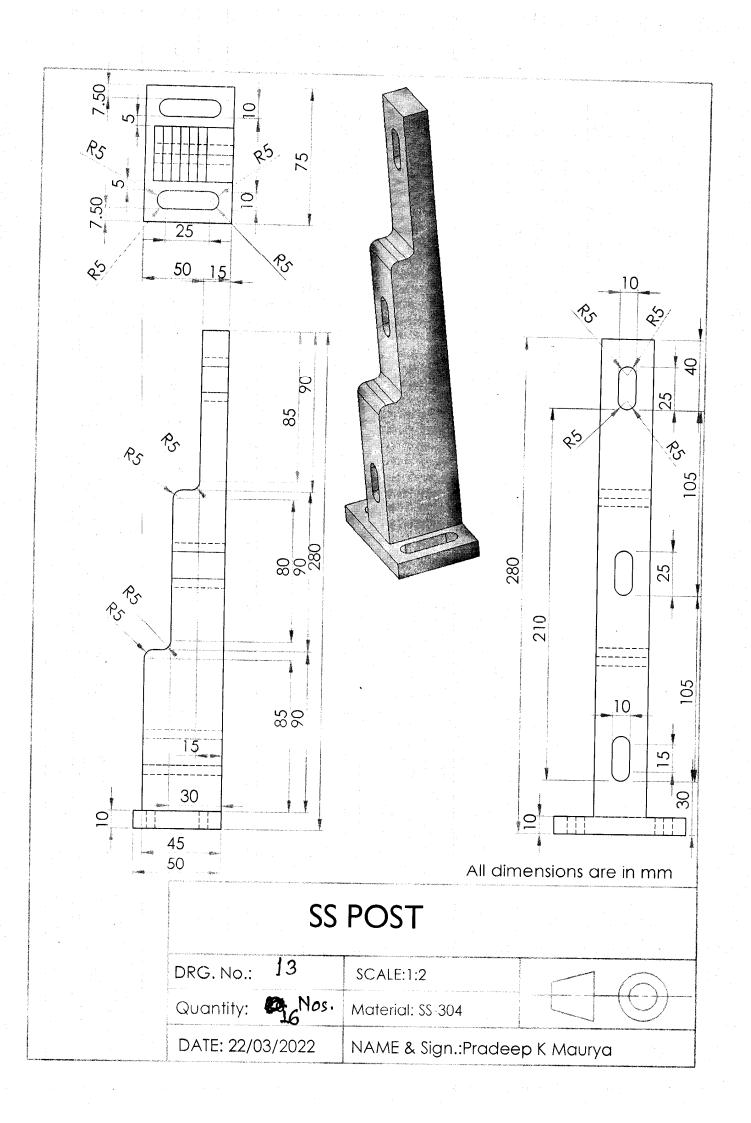


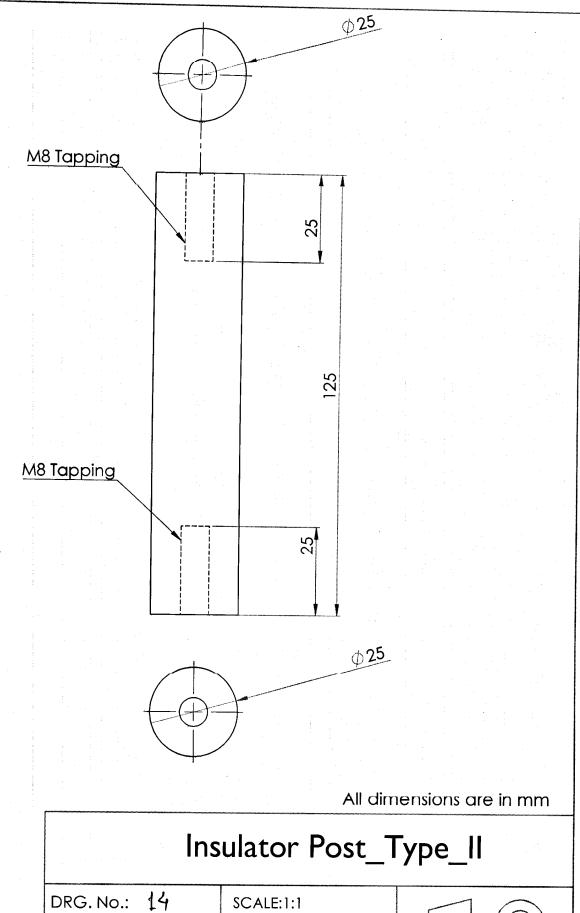


All dimensions are in mm

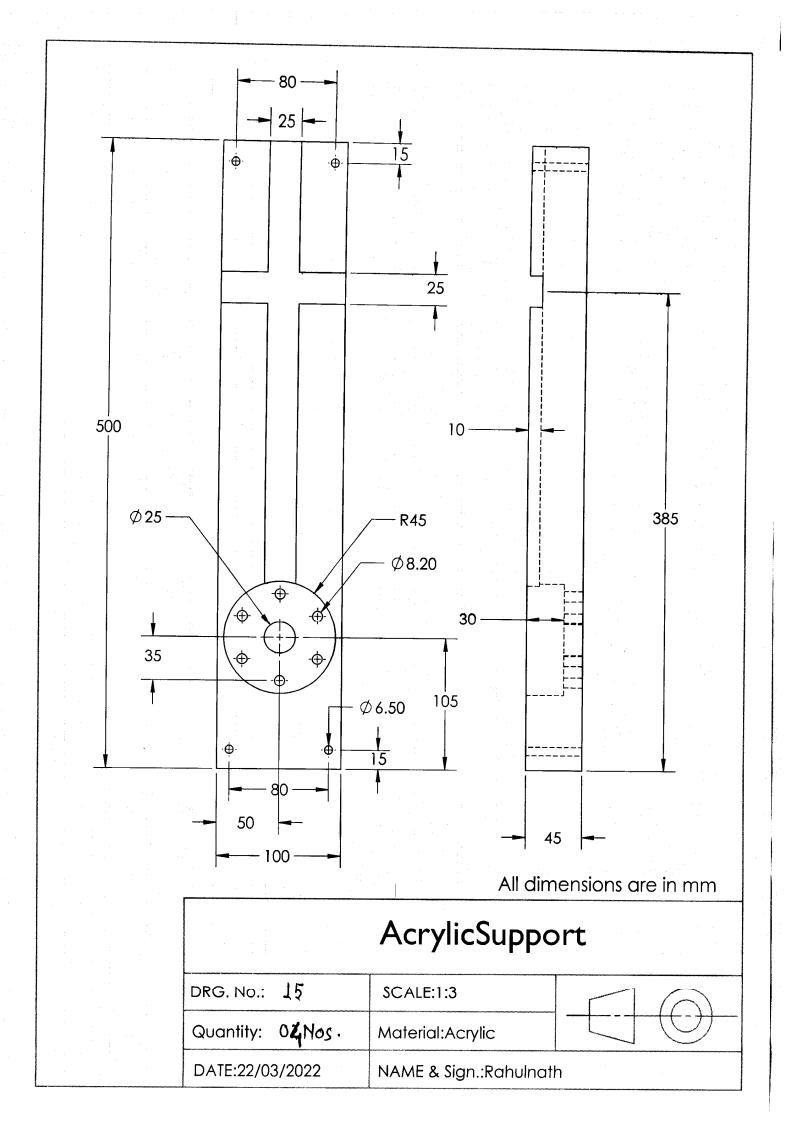
Insulator Post_Type_I DRG. No.: 11 SCALE:1:1 Quantity: 50 Nos Material: Teflon DATE: 22/03/2022 NAME & Sign.: Pradeep K Maurya

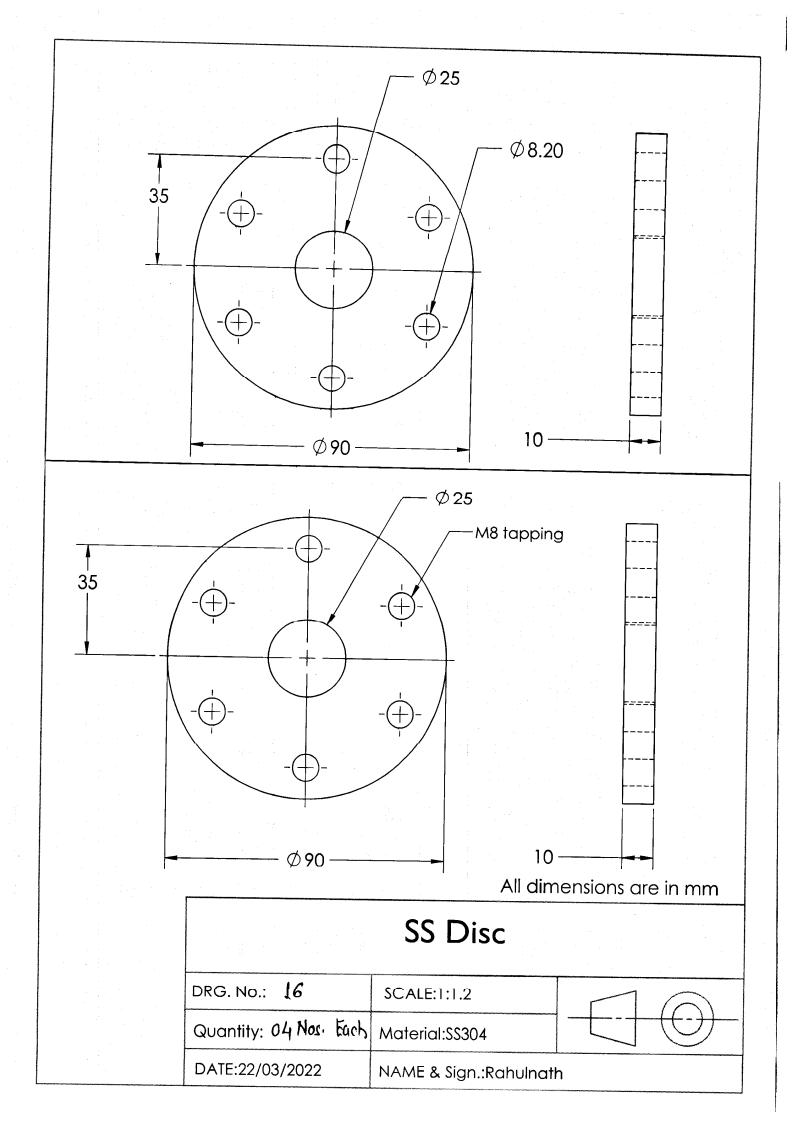


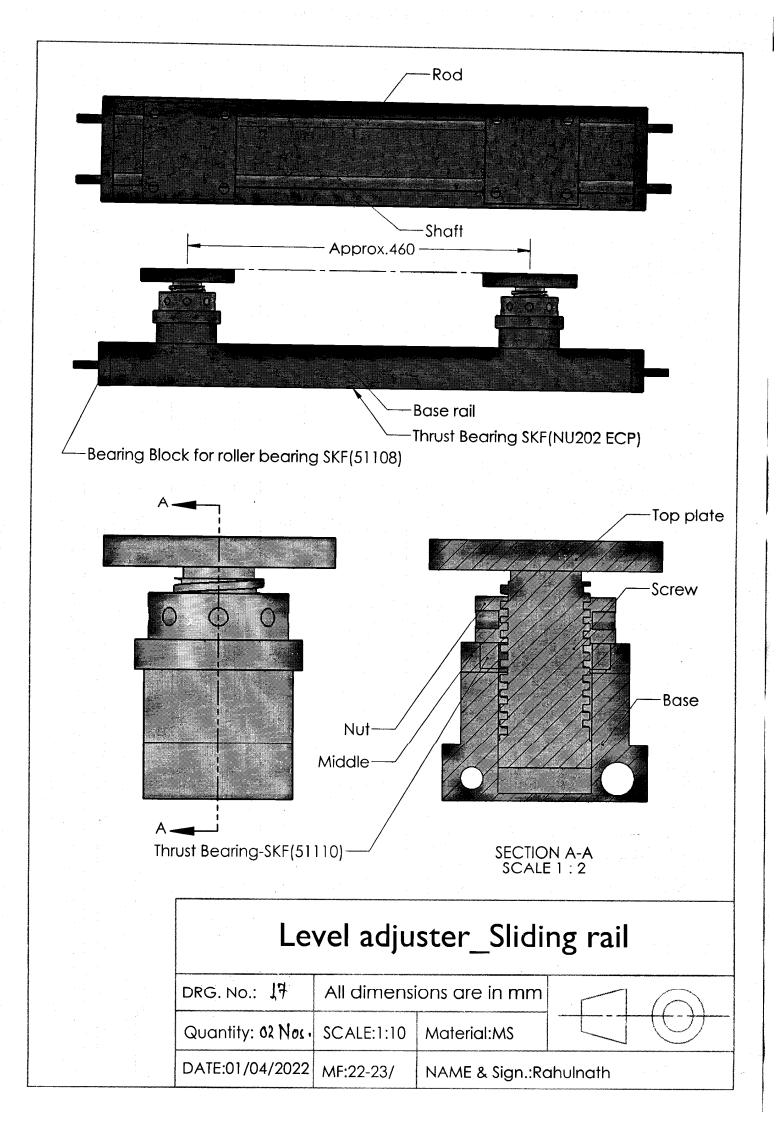


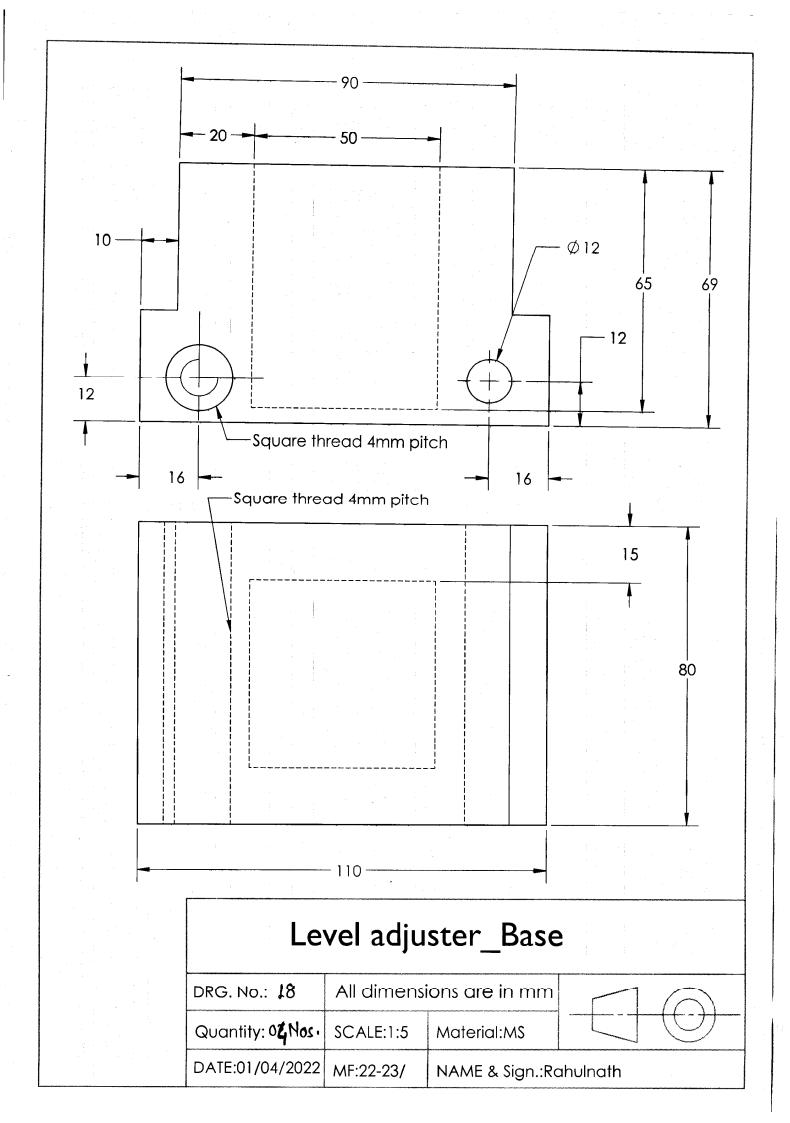


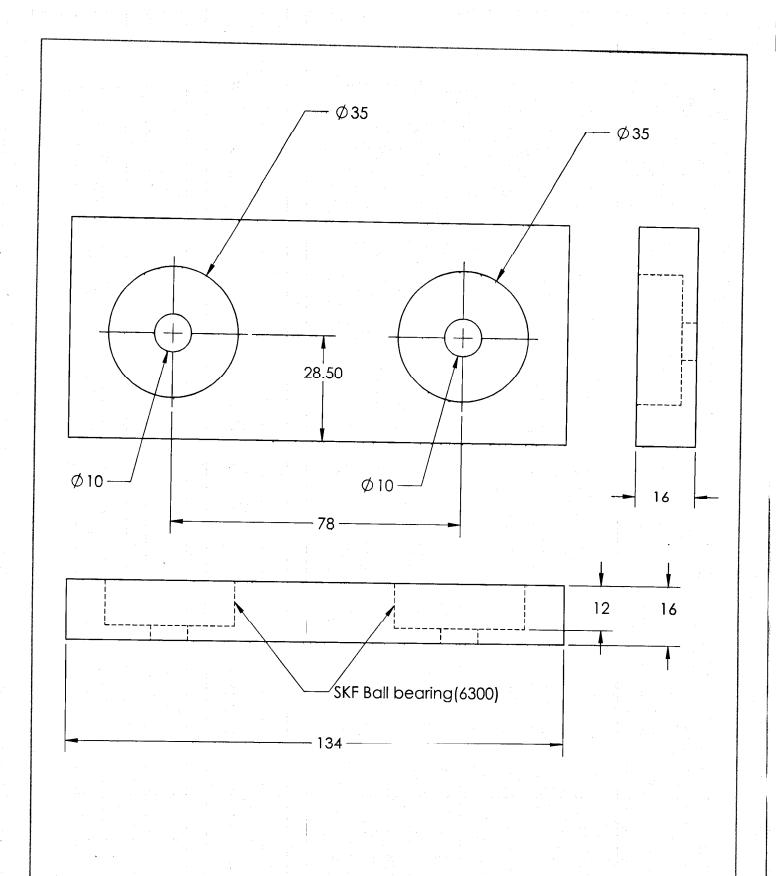
1115diacoi 1 03c_17pc_11				
DRG. No.: 14	SCALE:1:1			
Quantity: 50 Nos.	Material: Teflon			
DATE: 22/03/2022	NAME & Sign.: Pradeep K Maurya			



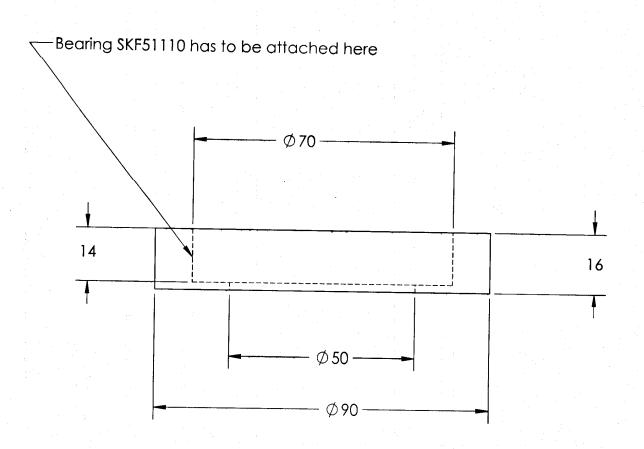




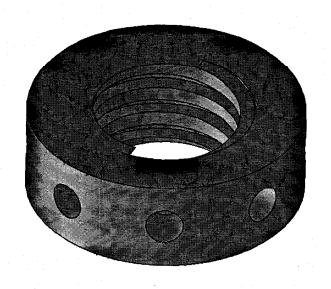


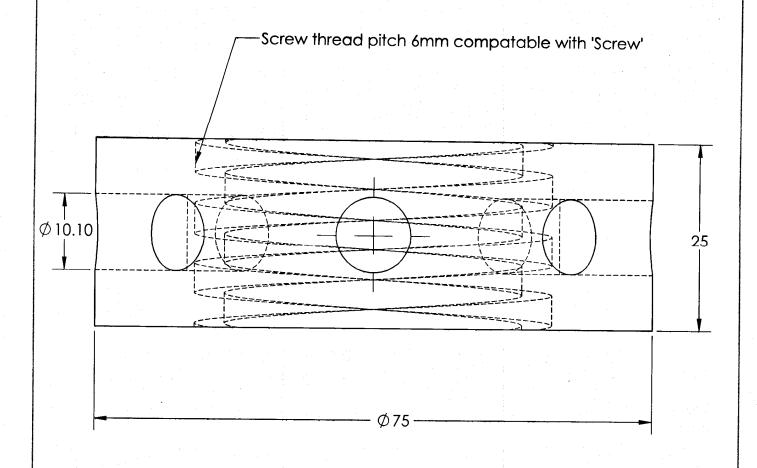


Level adjuster_Bearing block DRG. No.: 19 All dimensions are in mm Quantity: 04 Nos SCALE:1:1 Material:MS DATE:01/04/2022 MF:22-23/ NAME & Sign.:Rahulnath

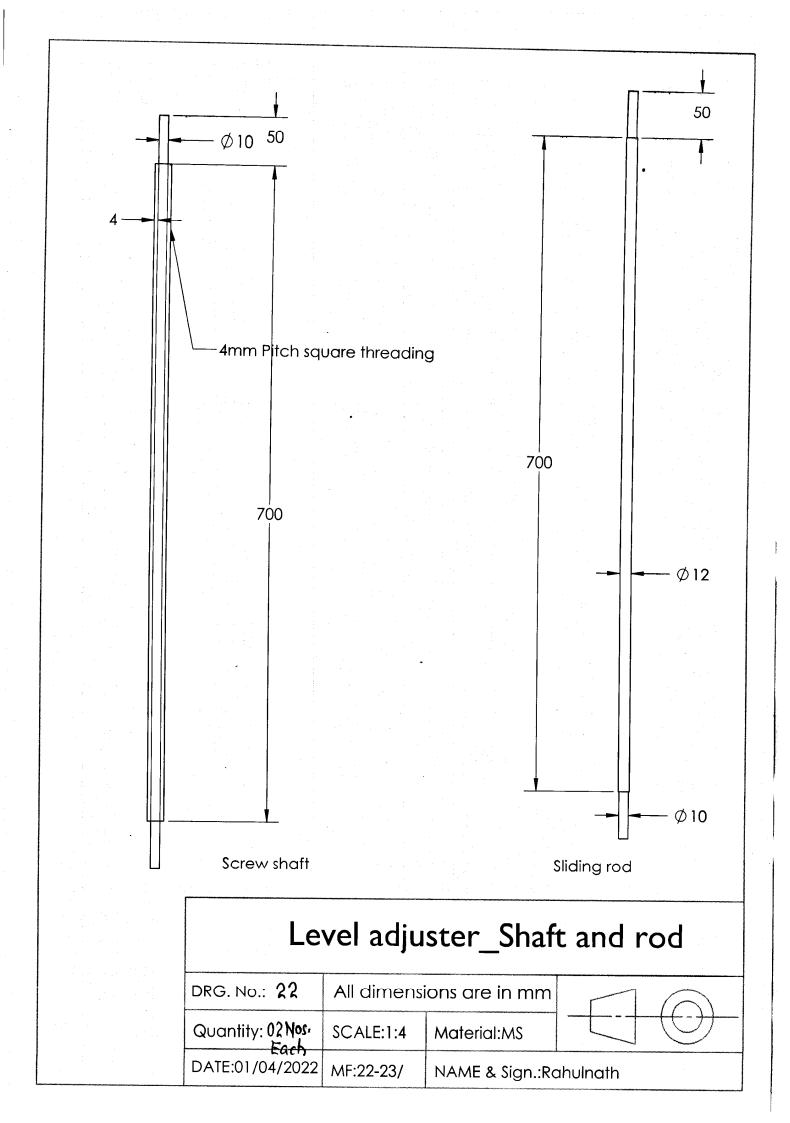


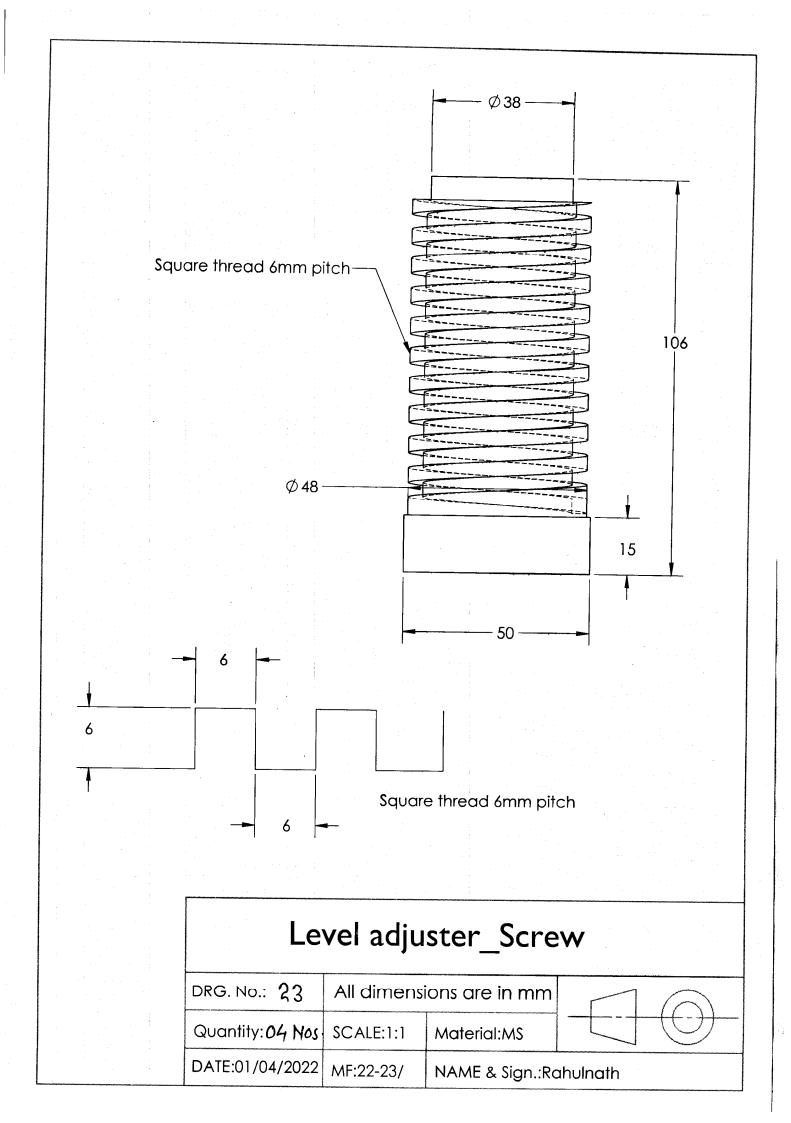
Level adjuster_Middle				
DRG. No.: 20	All dimensions are in mm		70	
Quantity: 04 Nos.	SCALE:1:1	Material:MS		
DATE:01/04/2022	MF:22-23/	NAME & Sign.:Ro	ahulnath	

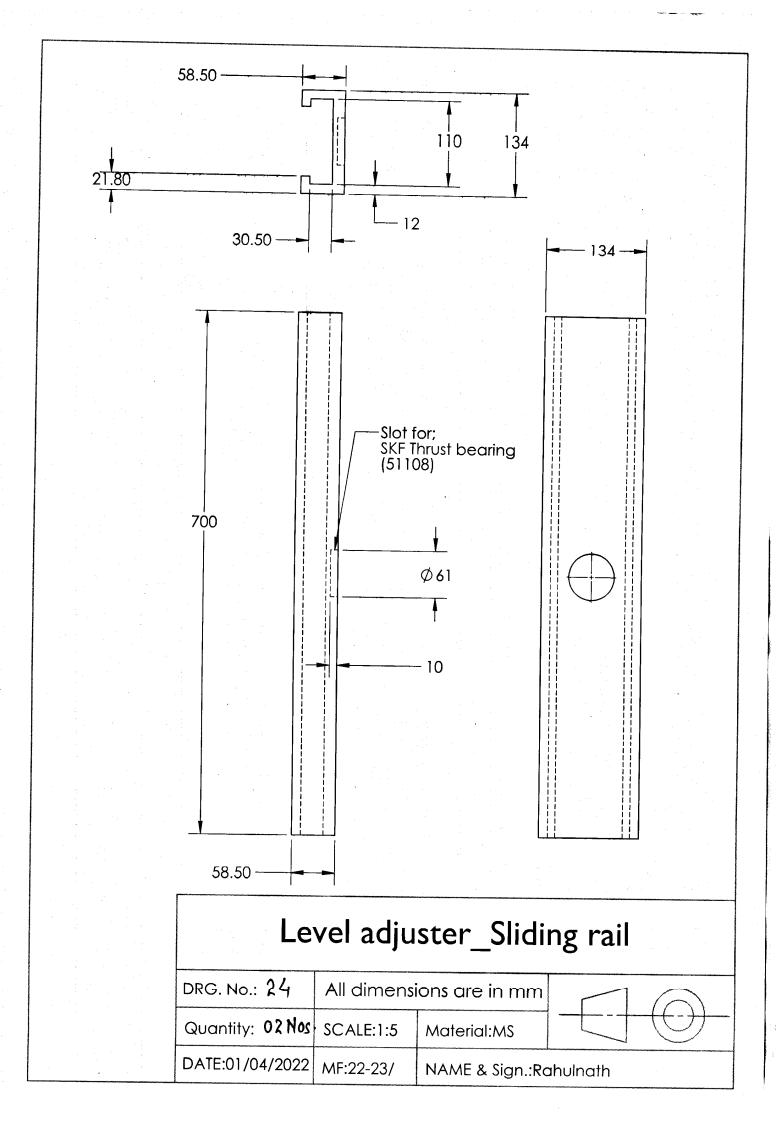


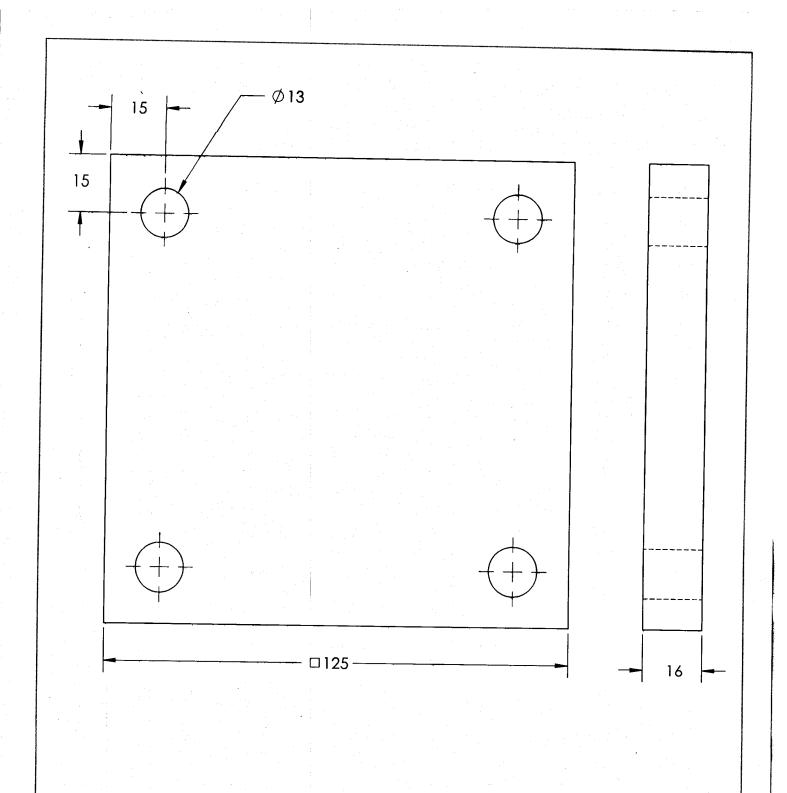


Level adjuster_Nut				
DRG. No.: 21	All dimensions are in mm			
Quantity: 04 Nos	SCALE:2:1	Material:MS		
DATE:01/04/2022	MF:22-23/	NAME & Sign.:Rahulnath		-









Level adjuster_Top plate DRG. No.: 25 All dimensions are in mm Quantity: 04 Nos. SCALE:1:1 Material:MS DATE:01/04/2022 MF:22-23/ NAME & Sign.:Rahulnath