

GOVERNMENT OF INDIA DEPARTMENT OF ATOMIC ENERGY BHABHA ATOMIC RESEARCH CENTRE <u>VISAKHAPATNAM</u>



Date: 01/04/2022

Computational Analysis Division

Ref: CAD/HEDM/WO/IND/22-23/01

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 <u>sealed envelope</u> 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 27/04/2022 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 27/04/3022.

- 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 /ΓΑΝ no. on quotation.
- GST number shall be clearly mentioned on Quotation.
- All the charges and taxes shall be mentioned clearly.

Please note that BARC being an R&D institution, GST rates are as follows

- For Intra-state Supply of Goods: @ 2.5% SGST + 2.5% CGST
- For Inter-state Supply of Goods: @ 5.0% IGST
- GST exemption certificate shall be issued to the supplier.

(This is as per Office Order No. BARC/GST/12/2017 dt. 27.12.2017)

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• You may contact us for any clarification before $\frac{27/04/2022}{2832148,9100483817/7382224750, pkmaurya@barc.gov.in}$ (Shri. Pradeep K Maurya, 0891-

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 original disclosing party.

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

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

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

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

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SO/D, CAD

Phone: 0891-2832148, Email: pkmaurya@barc.gov.in

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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.
	4 - 7 -	2. Framing: Using C-Channels of size 75X75X40X5mm3. Fabrication: Through Welding	03 1100.
Note:			NA
• All th	e dimensions mu	ast be strictly ensured.	
A bas	e plate of 125x1	25x15mm is to be welded to the legs(6Nos.).	
	igh holes are to	o be provided on channels wherever necessary to fasten	
Tolerances:			
 Prope 	r Surface levellii	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	14 set
		2. Size: 80mmX155mm±25mm	•
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 Division.

D N	aciming, fabrication, Supply a	nd installation of SS Platform Type I	
Drg. No.	Title	Main features	Quantity(No.)
08	SS Platform_ Type I	1. Material: SS304	Quantity(Nos.)
		2. Overall Size: 1300mmX500mm	02 No.
Tolerances • Surface	finish must be within 20microns.		02 set
Note:	mish most be within 20microns.		
Fabrica	tion can be done in parts. Each pa	art is to be attached by TIG welding.	
Perpend	licularity must be maintained witl	hin 0.1mm.	
Installation			
Drilling	and bolting with MS Frames is i	in the supplier's scope.	

No welding.
Perpendicularity must be maintained within 0.1mm.

Installation work:

Bolting with SS Platform 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.
		2. Size: 1300mm(length)X22.5mm	301.00.
		3. M6X25mm Tapping	
Installation [•]	work:		
• Fittir	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:	.1 5 1 5	
• Fittir	ng jobs required for mountin	g on SS Platform at site is in the suppliers scope.	

- 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

Item	Size	Matarial	Ougstite (
(Allen head)	25mm	SS	Quantity (nos.) 50Set.
M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head)	40mm	SS	50Set.
M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head)	125mm	SS	50Set.
on:			
	M06 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Allen head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head)	M06 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Allen head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head)	M06 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Allen head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head) M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head) SS SIZE Material SS SS SS SS Material SS SS Material SS SS SS M10 Nut(1), Bolt(1), Spring washer (1), plain washer (2), (Hex head) SS SS SS SS Material

13) Installation & Commissioning

S. no.	Installation work
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
02	Fitting work (fitting and supply of fasteners) includes:
	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

pradup (Pradeep K Maurya) SO/D, CAD Indentor 7) Item(7): Machining, fabrication, Supply and installation of SS Platform Type II

Drg. No.	Title	and installation of SS Platform Type II	
12	SS Platform_Type II	Main features	Quantity(Nos.)
	os mationi_ Type_n	1. Material: SS304	01 No.
		2. Overall Size:Dia.1300mmX500mmX22.5mm	
		3. M10 tapping and through Holes-40mm	
Tolerances:		Tr -8 and an ough Holes Folling	
 Surface fin 	ish must be within 20microns		01 No.
Installation wo	ork:		
 Drilling and 	d bolting with MS Frames wil	ll be is in the supplier's scope.	
	8 ······························	it 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	 Material: SS304 Size: 75mmX50mmX280mm Vertical grooves. 	16Nos.
Note: • Fabrication Tolerance	on can be done in 2 par	ts. Each part attached by TIG welding.	16Set
 Perpendie 	cularity must be mainta	ined within 0.05mm.	

9) Item(9): Machining, fabrication, Supply and installation of Teflon Insulator Post Type II

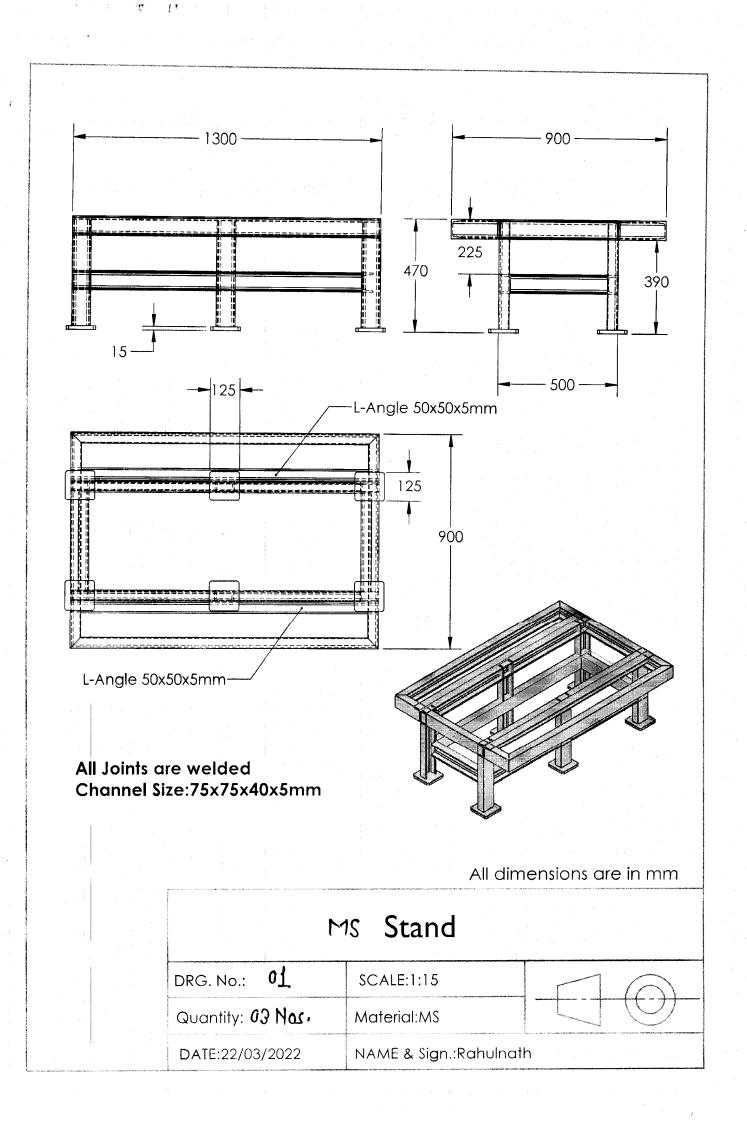
Drg. No.	Title Teflon Insulator Post _Type_II	Main Features 1. Material: Teflon 2. Size: 125mm(length)X25mm dia. 3. M8X25mm Tapping with spring insert	Quantity 50Nos.
Installation			
• FILLI	ng jobs required for mounting of	on SS Platform at site is in the suppliers scope.	

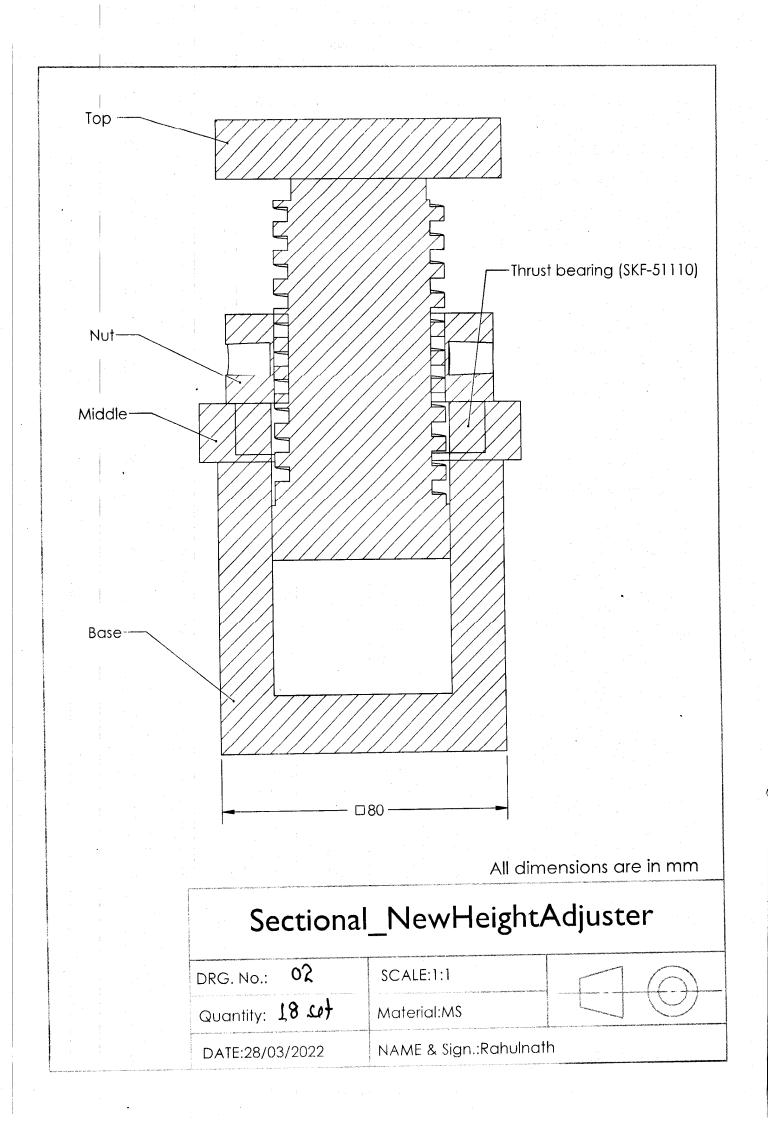
10) Item(10): Machining, fabrication, Supply and installation of coaxial termination

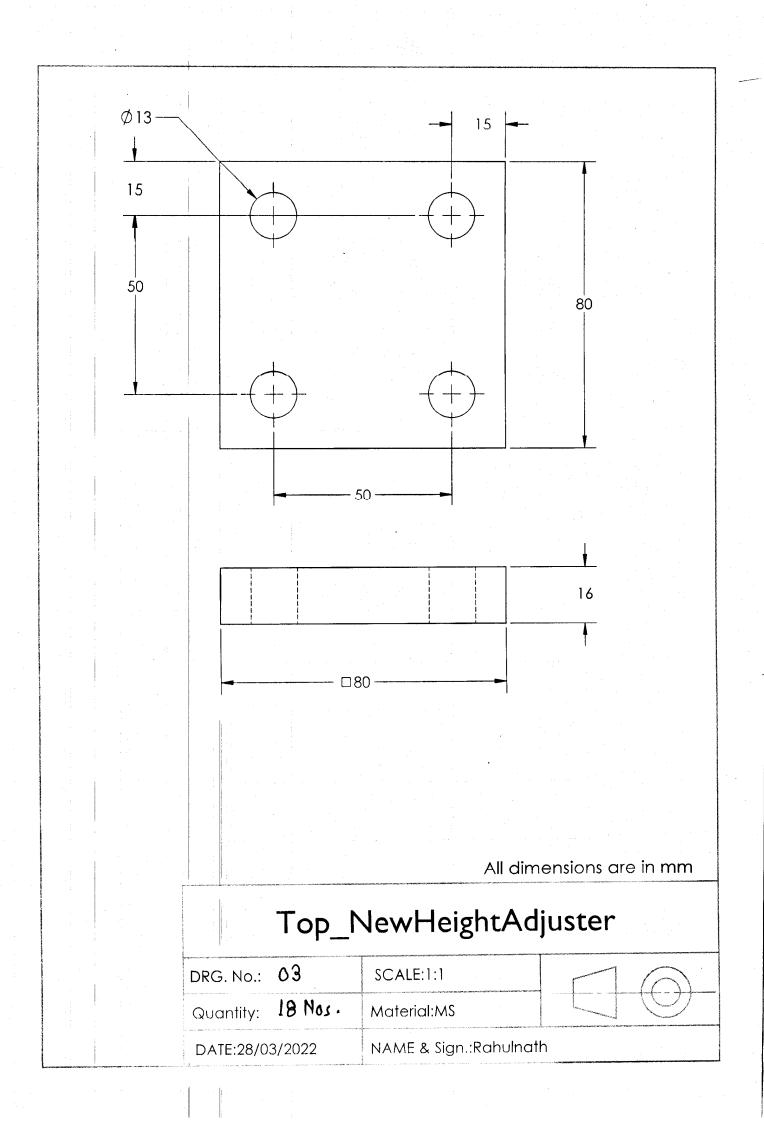
Drg. No	Title	Main features	Quantity(Nos.)
15	Coaxial cable_ Acrylic Base	1. Material: Acrylic	04
		2. Size:100x500x50mm	04
		3. Circular slot	
16	Coaxial cable_SS flange-1	1. Material: SS 304	04
	ļ	2. Size:Dia.80x10mm	04
		3. 8.5mm through holes	,
16	Coaxial cable_SS flange-2	1. Material: SS 304	04
		2. Size:Dia.80x10mm	0.4
		3. M8 tapping	
Supply: Cal	ble gland (SpecificationPG29 cab	le gland)	04
Installation			04 Set
i. The SS	flanges should sit within close clear	rance inside the circular slot in acrylic base.	0.500
ii. The PG	29 cable gland must be threaded to a	acrylic base	
	Cutting, drilling, fitting jobs required for mounting on acrylic sheet at site is in the suppliers		
scope	Joos required for i	moditing on acryne sheet at site is in the suppliers	
зооре			

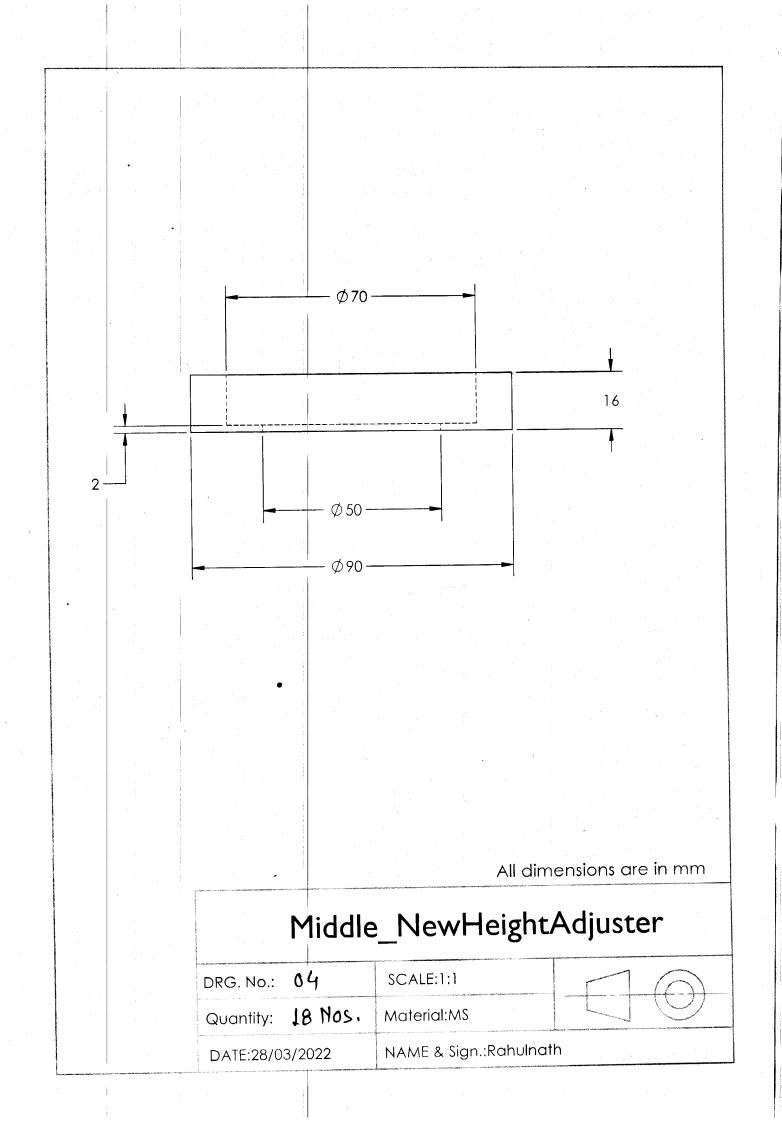
11) Item(11): Machining, fabrication, Supply and installation of level adjuster

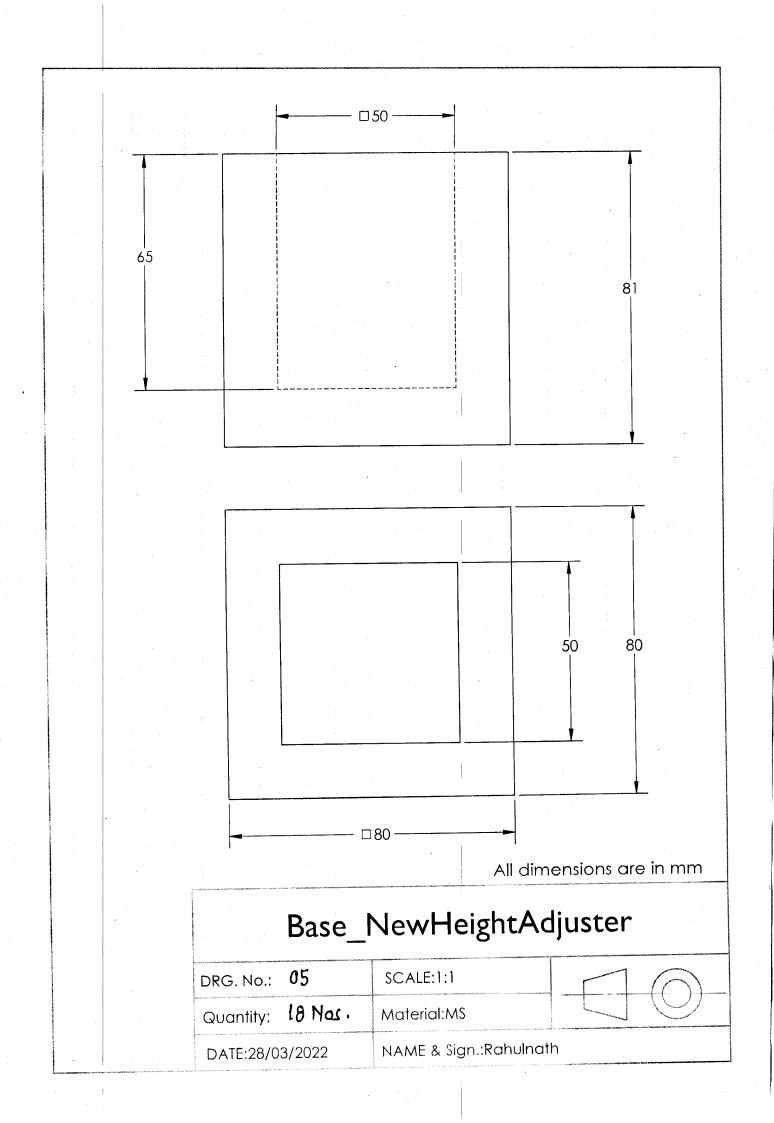
Drg. No.	Title	Main Features	 Quantity
17-25	Level adjuster	 Material: MS Size: 700mmX134mm 	02 set
Note:			
• Fabri	cation should be done a	s per drawing no. 17-25	

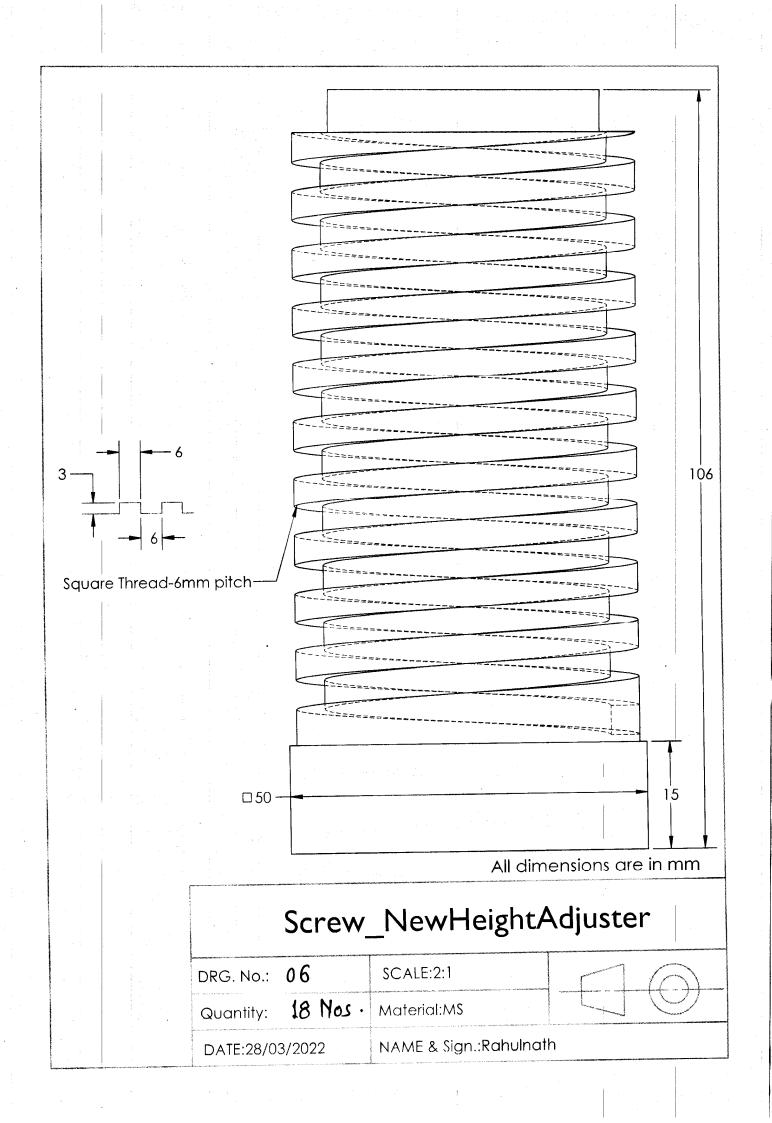


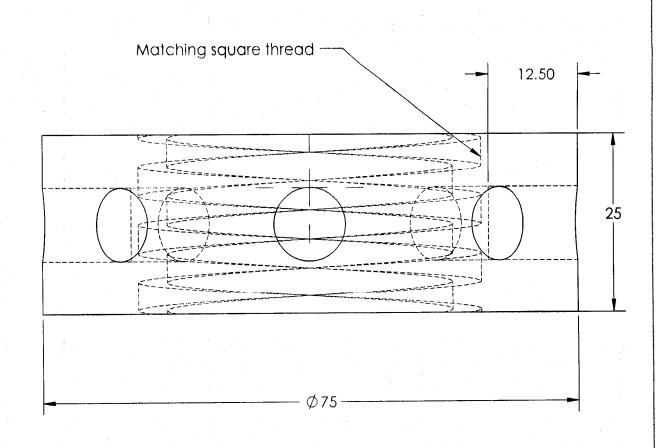


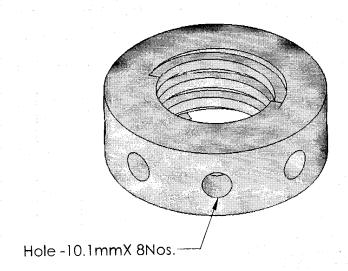






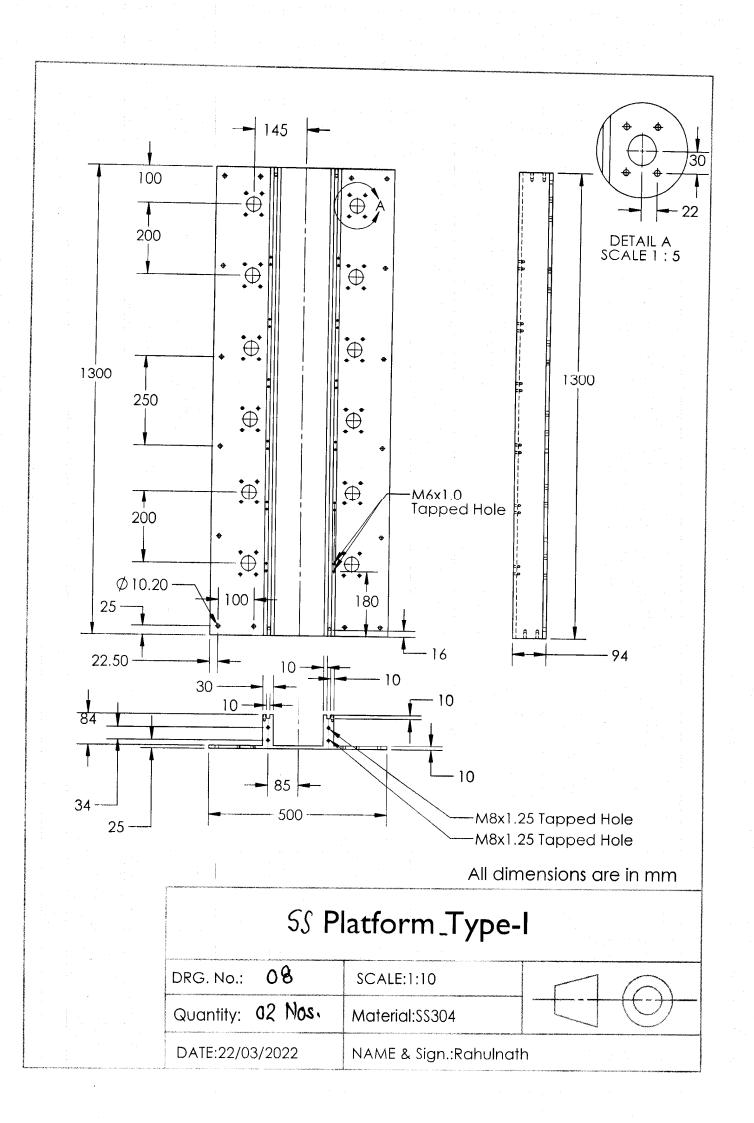


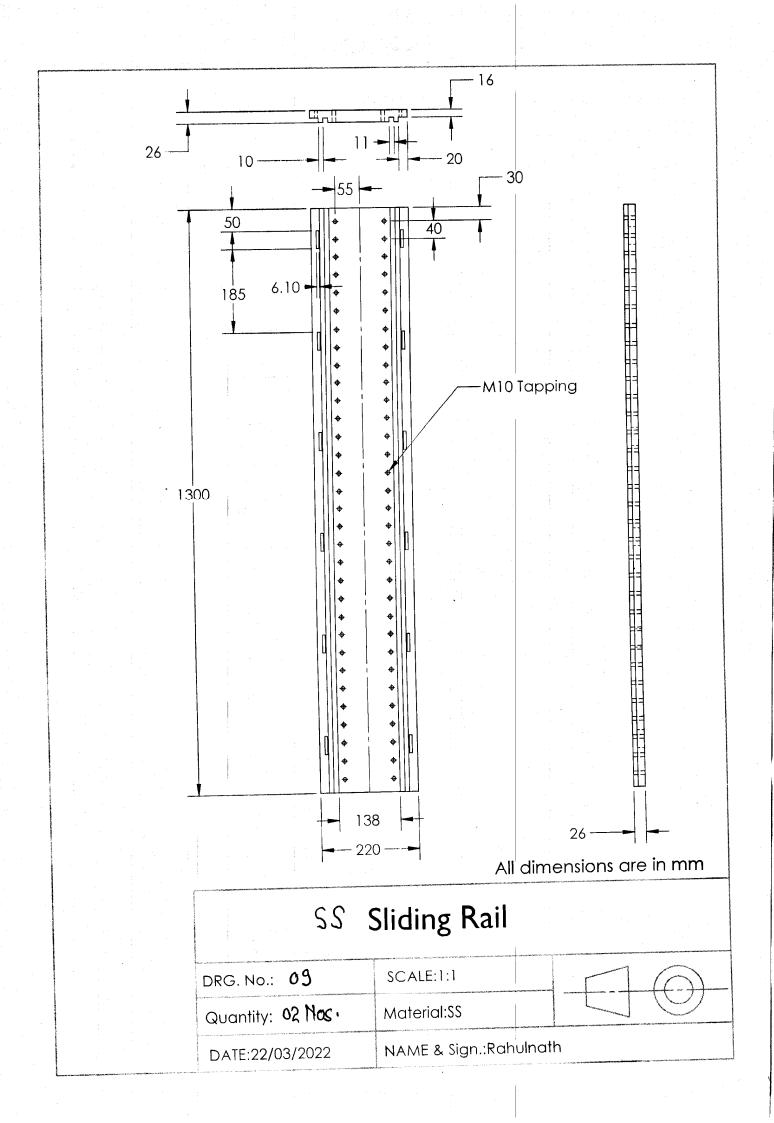


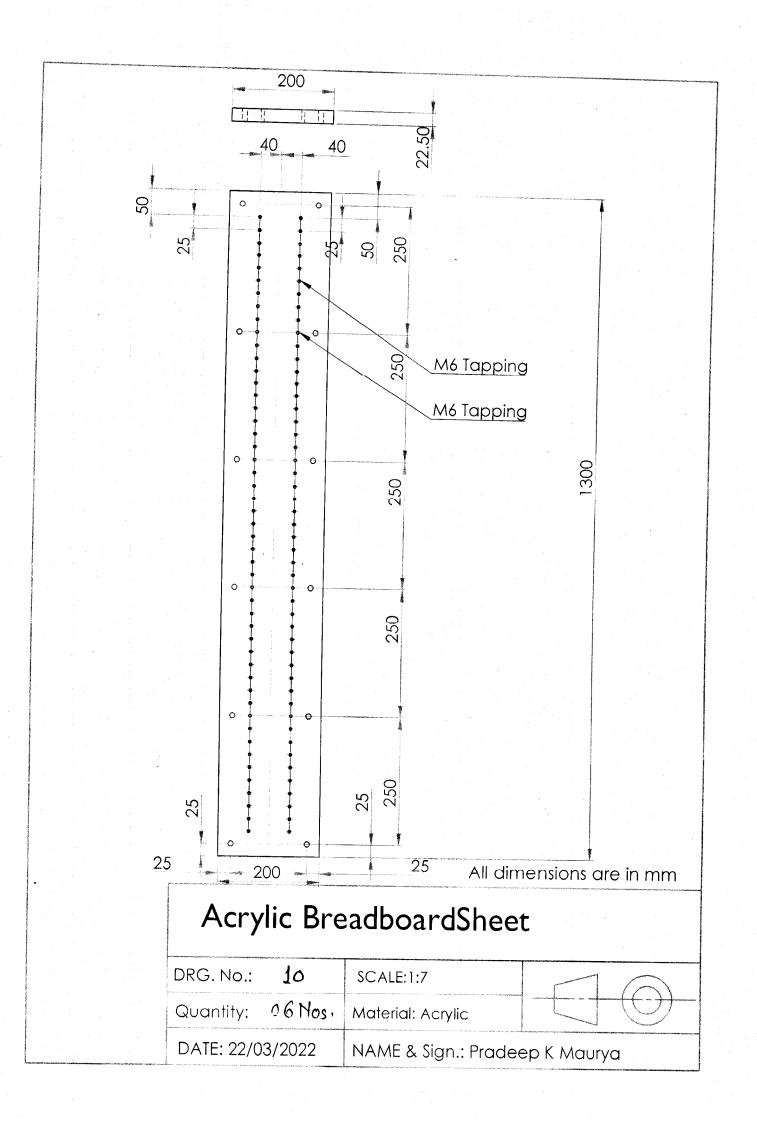


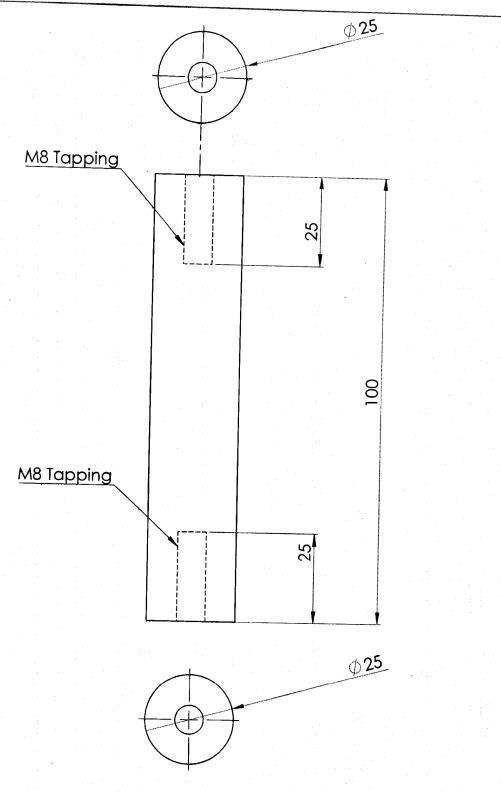
All dimensions are in mm

Nut_NewHeightAdjuster				
DRG. No.:	67	SCALE:2:1		
Quantity:	18 Nos.	Material:MS		
DATE:28/03/2022		NAME & Sign.:Rahulnath		



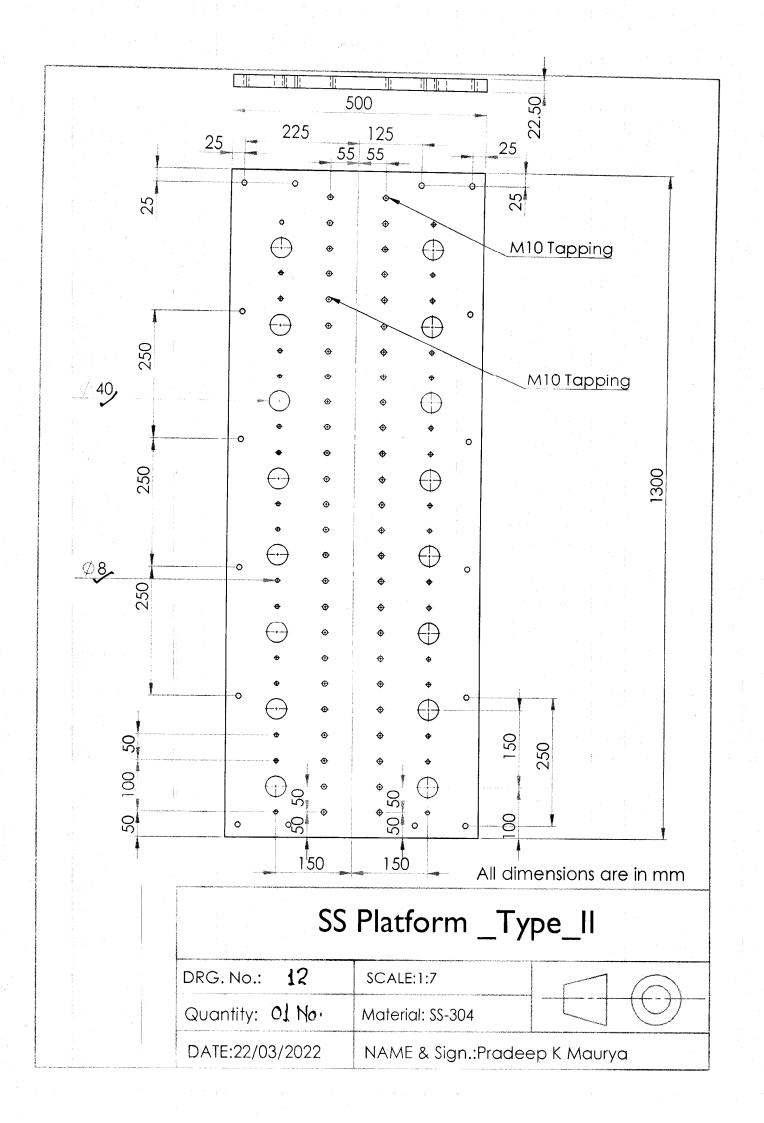


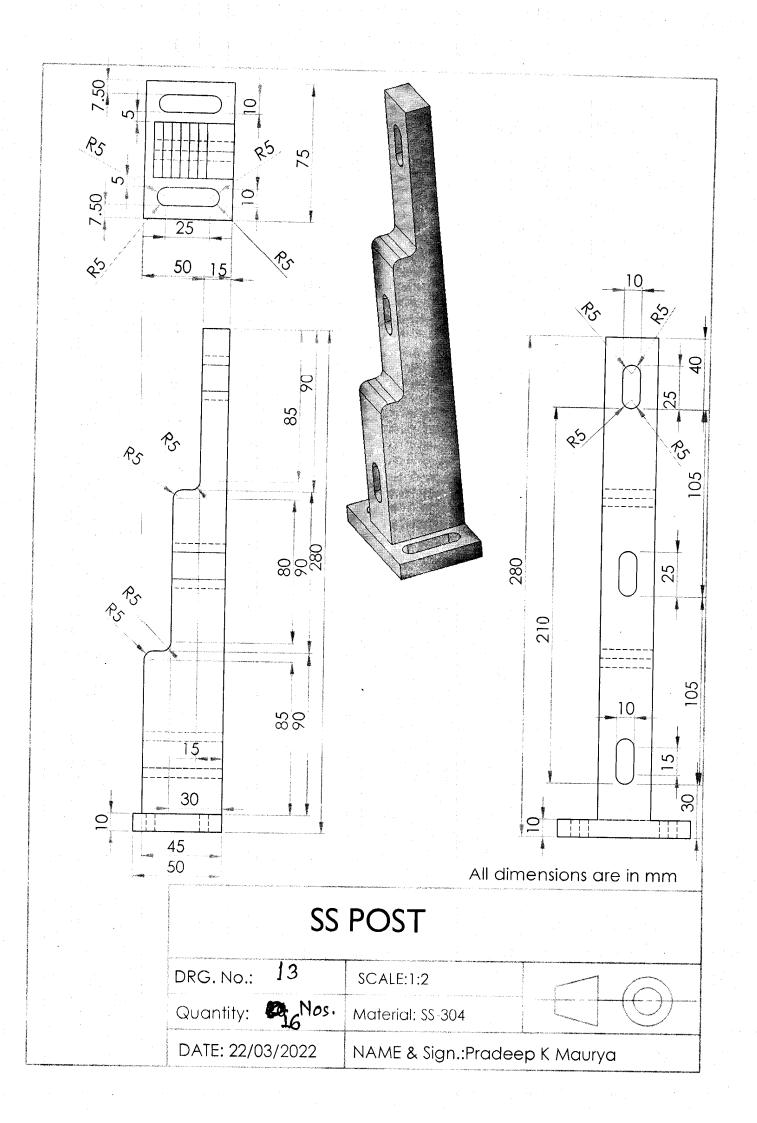


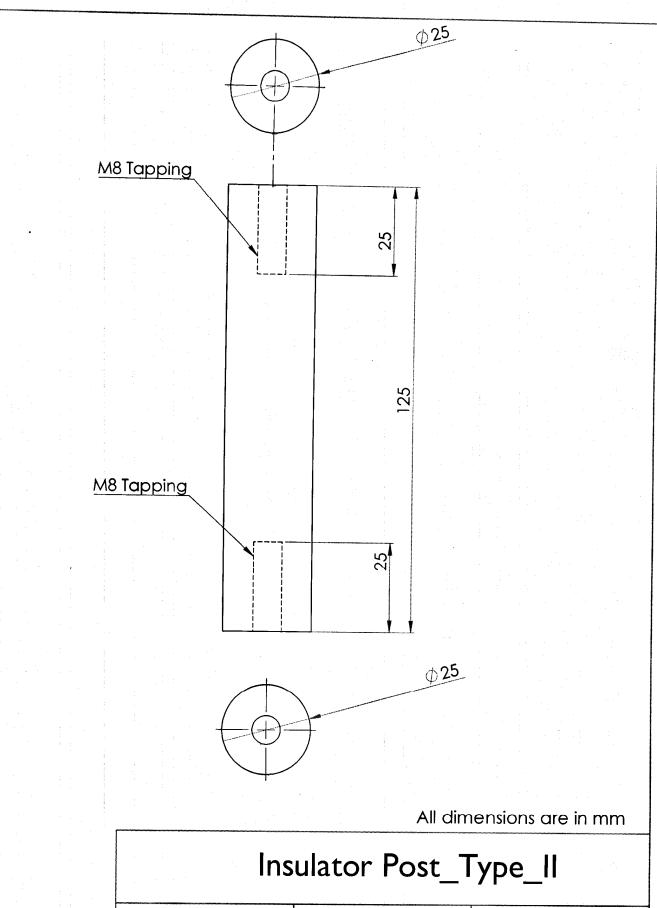


All dimensions are in mm

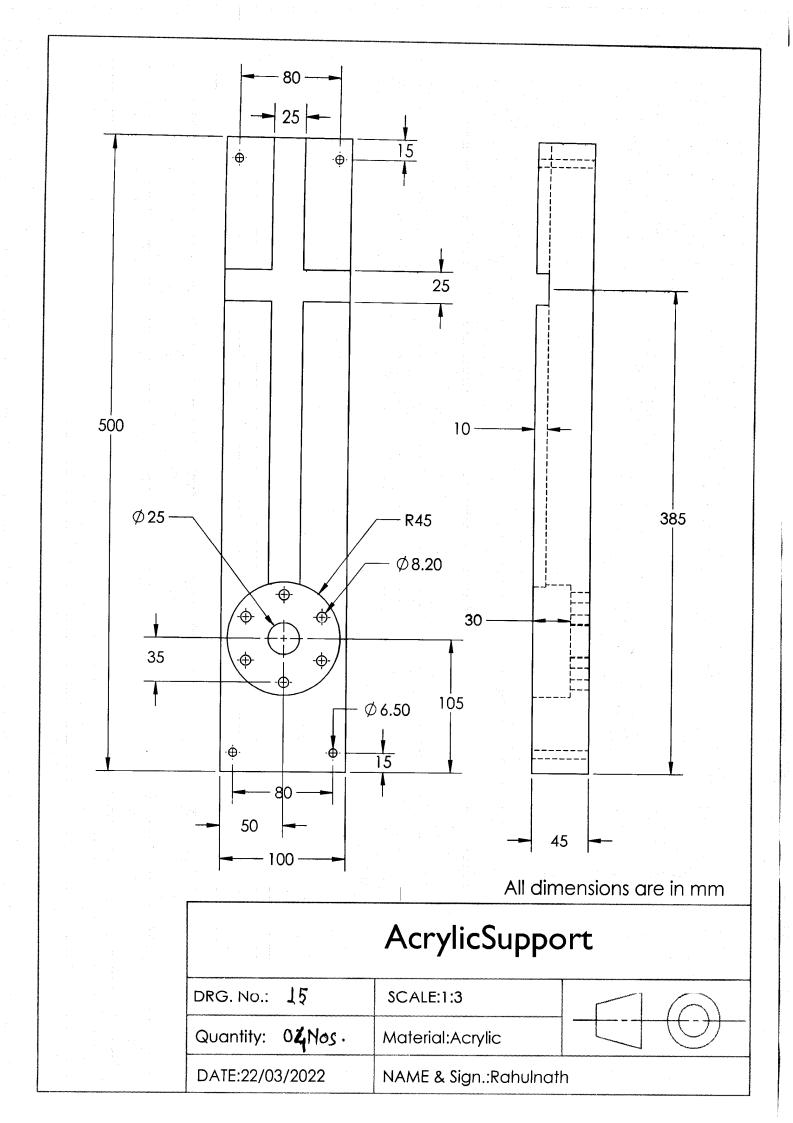
Insulator Post_Type_I DRG. No.: 11 SCALE:1:1 Quantity: 50 Nos. Material: Teflon DATE: 22/03/2022 NAME & Sign.: Pradeep K Maurya

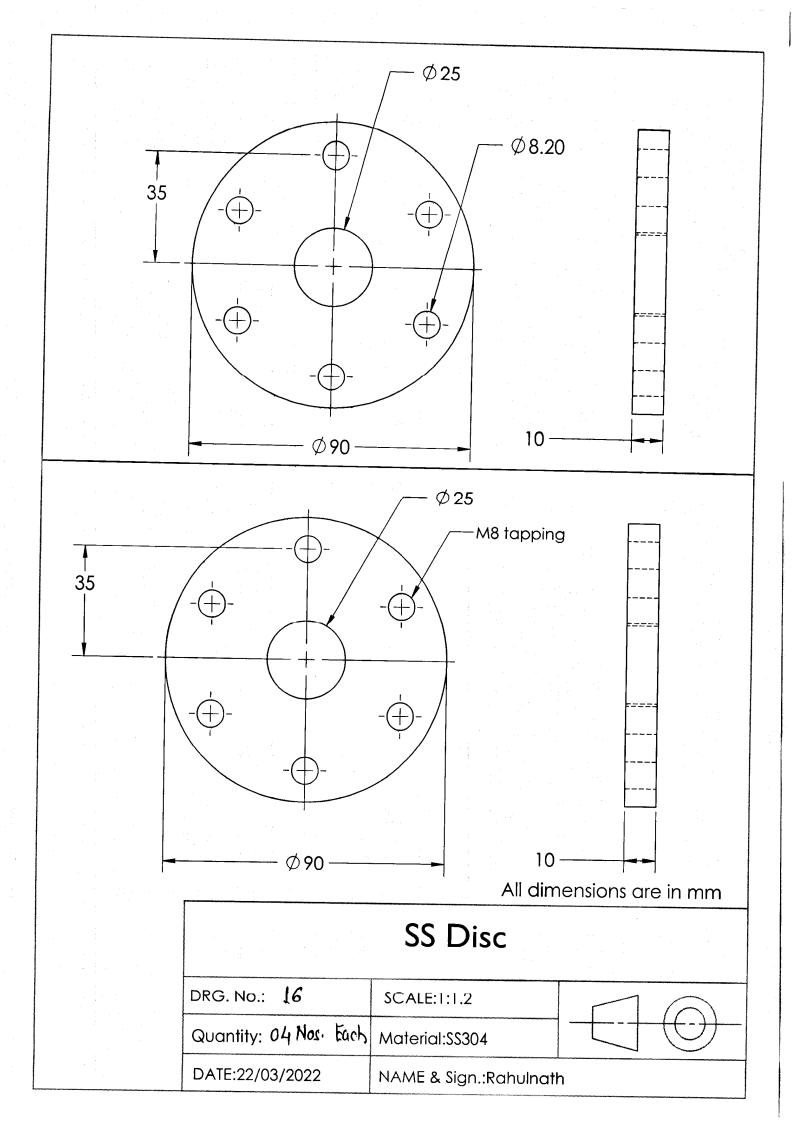


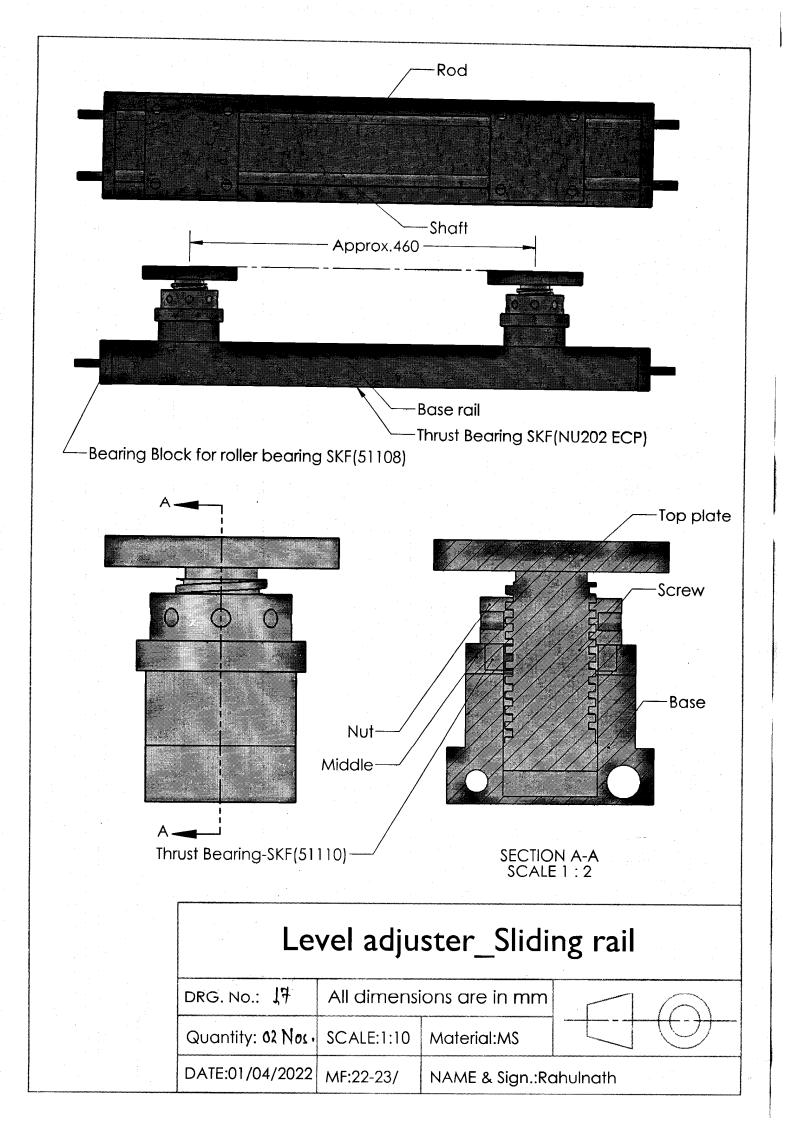


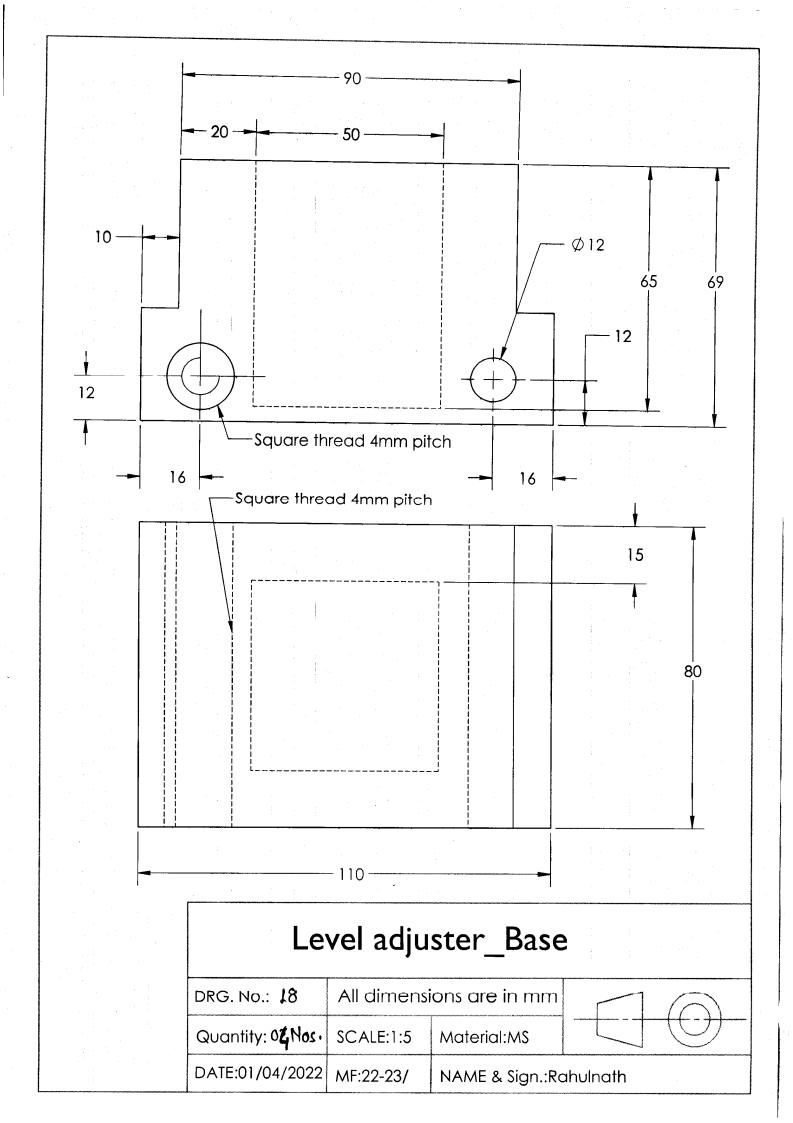


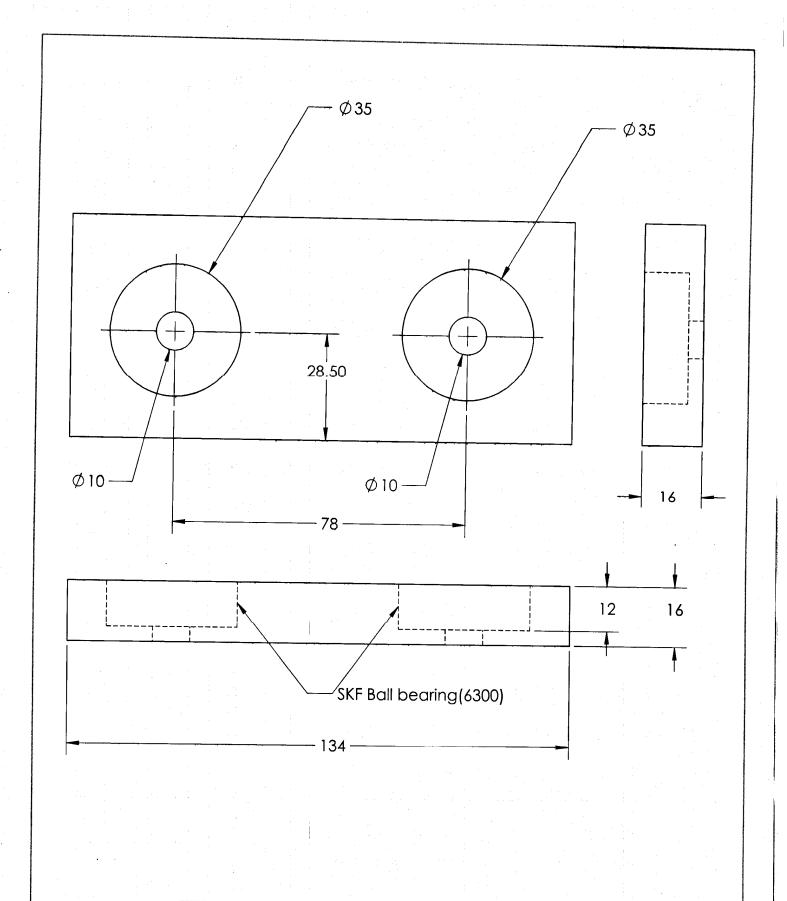
Insulator Post_Type_II			
DRG. No.: 14	SCALE:1:1		
Quantity: 50 Nos.	Material: Teflon		
DATE: 22/03/2022	NAME & Sign.: Pradeep K Maurya		



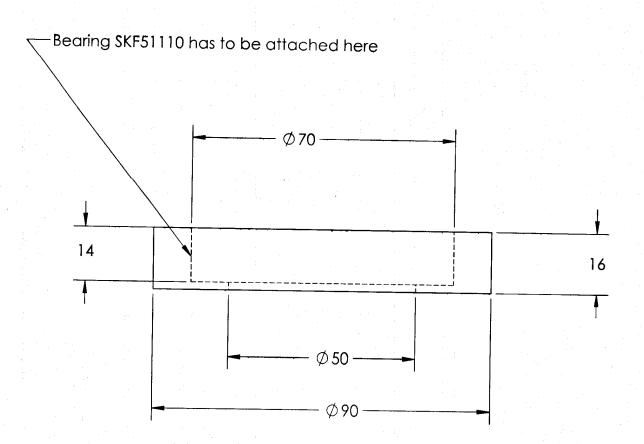




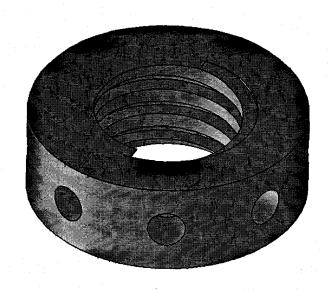


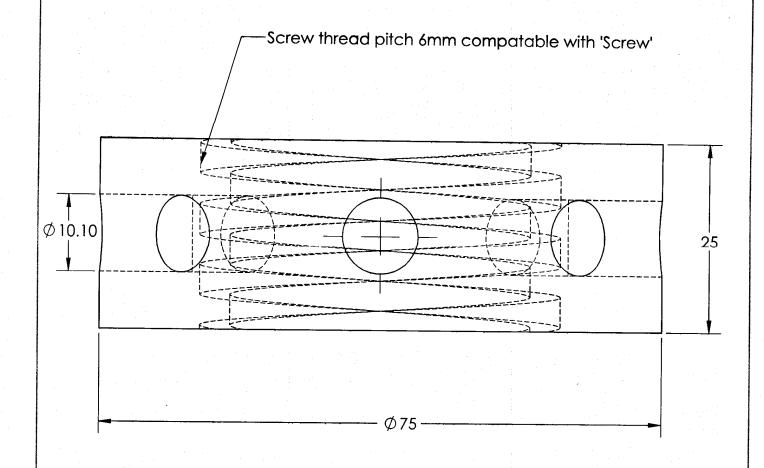


Level adjuster_Bearing block				
DRG. No.: 19	All dimens	ions are in mm		
Quantity: 04 Nos	· SCALE:1:1	Material:MS		
DATE:01/04/2022	MF:22-23/	NAME & Sign.:Rahulnath		

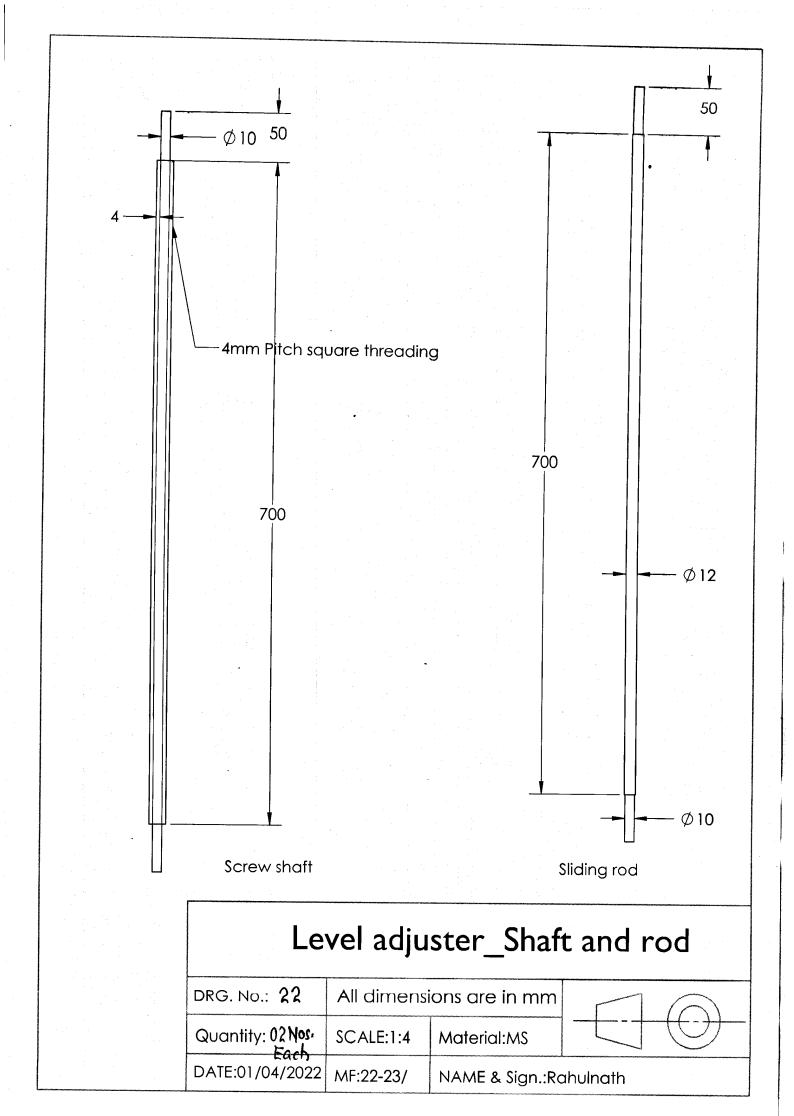


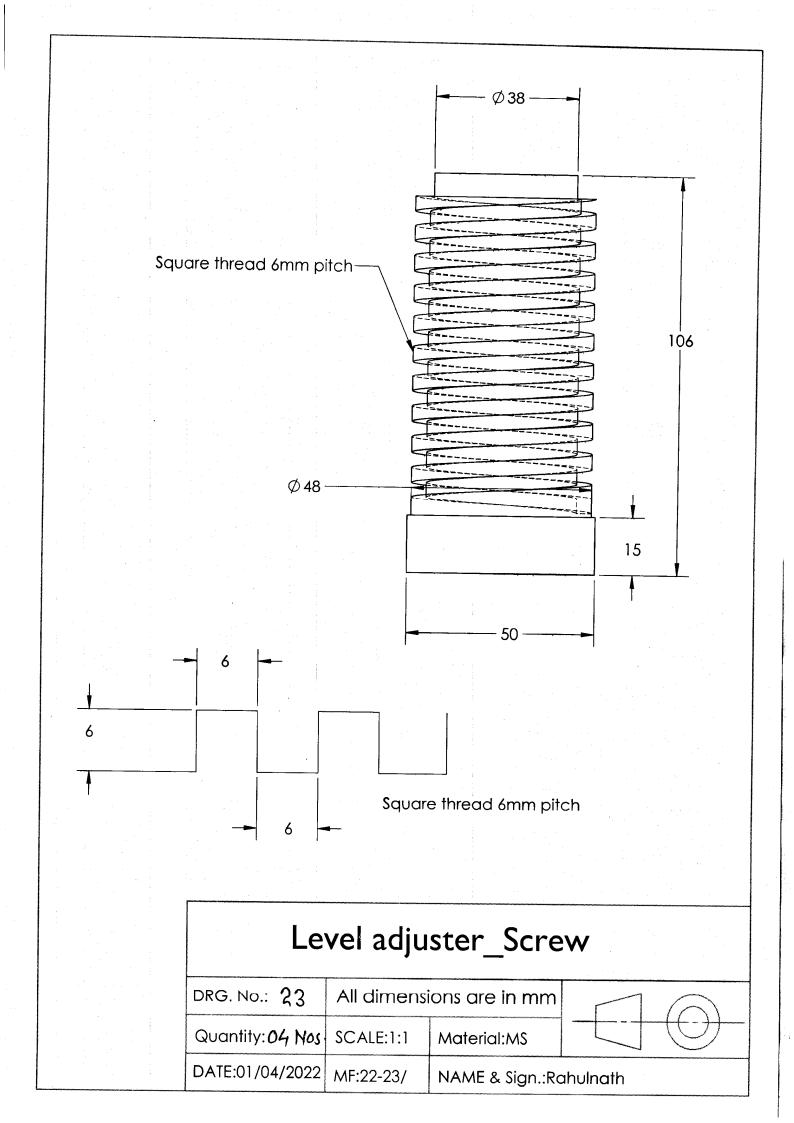
Level adjuster_Middle				
DRG. No.: 20	All dimensi	ions are in mm		
Quantity: 04 Nos.	SCALE:1:1	Material:MS		
DATE:01/04/2022	MF:22-23/	NAME & Sign.:Ro	ahulnath	

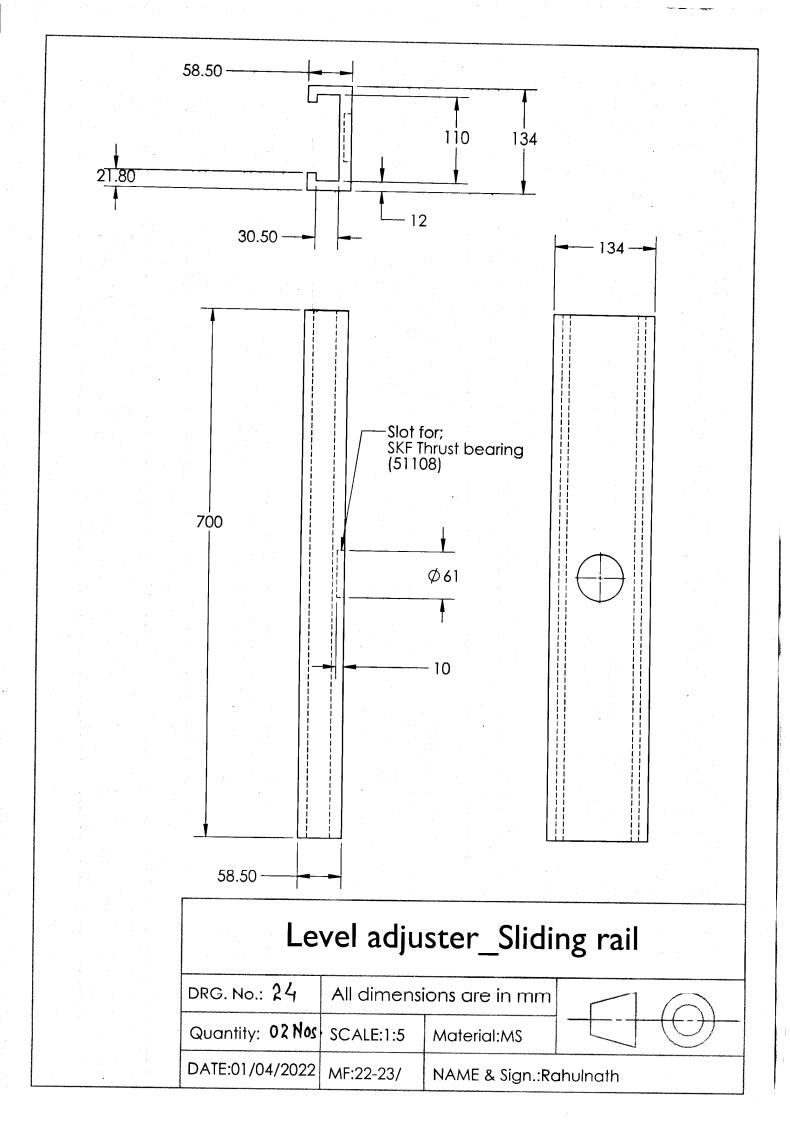


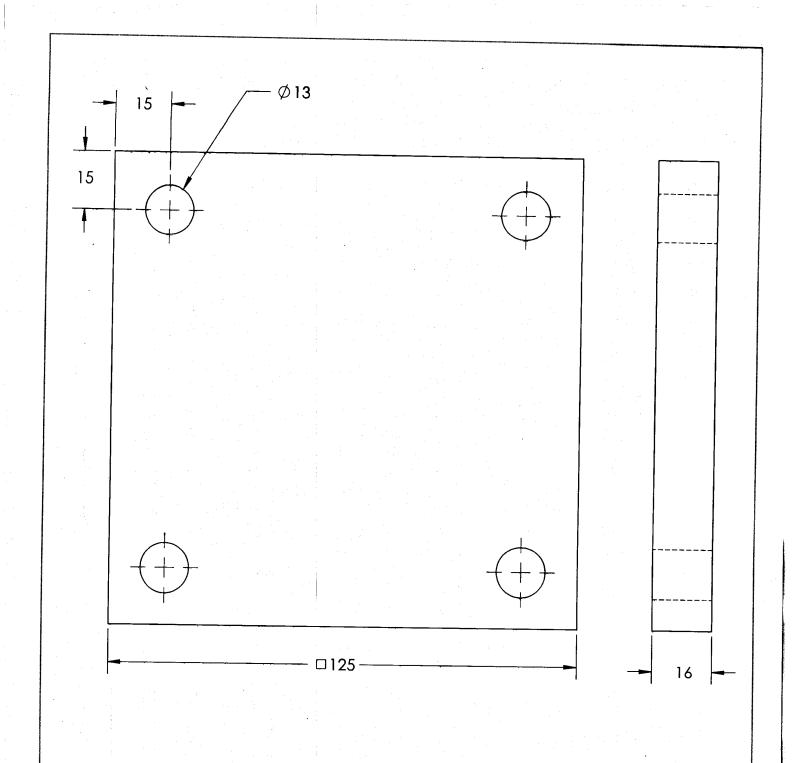


	Level adjuster_Nut				
	DRG. No.: 21	All dimensions are in mm			
	Quantity: 04 Nos	SCALE:2:1	Material:MS		
DATE:01/04/2022 MF:22-23/ NAME & Sign.:Rahul		hulnath			









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