

MECHATHON ENGG. Pvt. Ltd.

Internship Report

Name: KARTHIK S

Mail id: kishorekarthik35@gmail.com

Starting Date: 31/05/2021

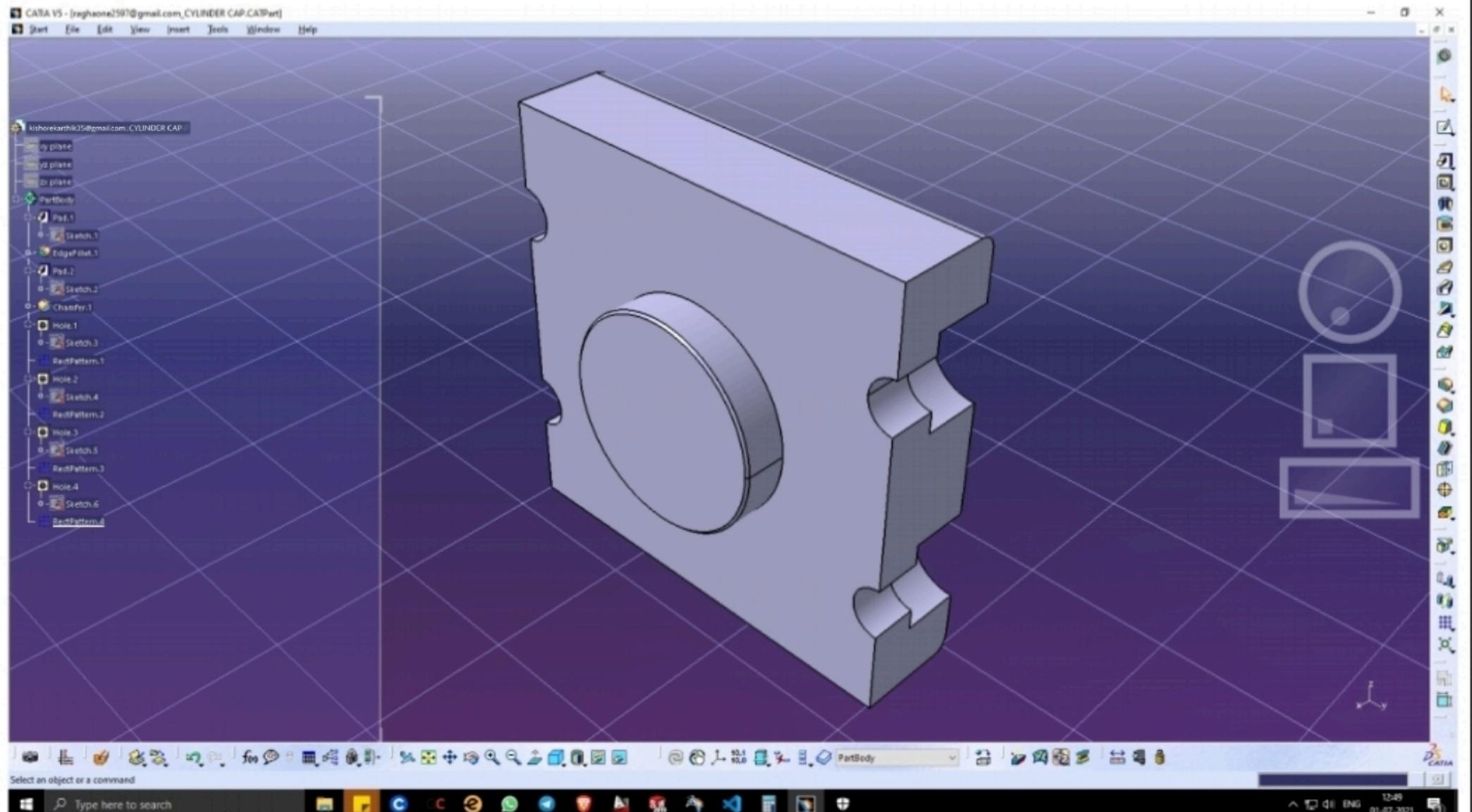
Ending Date: 19/07/2021



Part no.	Drawing No.	Description
MEHPP001	MEHPD001	Cylinder cap
MEHPP002	MEHPD002	Cylinder cap (outer)
MEHPP003	MEHPD003	Hexaplux Head
MEHPP004	MEHPD004	NRV ball retainer RH (DISCHARGE OUTER)
MEHPP005	MEHPD005	NRV ball retainer LH (DISCHARGE OUTER)
MEHPP006	MEHPD006	NRV ball retainer (DISCHARGE INNER)
MEHPP007	MEHPD007	NRV seat RH (SUCTION OUTER)
MEHPP008	MEHPD008	NRV seat LH (SUCTION OUTER)
MEHPP009	MEHPD009	NRV seat (SUCTION INNER)
MEHPP010	MEHPD010	Stuffing box
MEHPP011	MEHPD011	Bottom plate (Slider block)
MEHPP012	MEHPD012	Bearing end cap (RH)
MEHPP013	MEHPD013	Bearing end cap (LH)
MEHPP014	MEHPD014	Connecting rod (bottom)
MEHPP015	MEHPD015	Connecting rod (top)
MEHPP016	MEHPD016	Crank Case internal support cap
MEHPP017	MEHPD017	Crank Case internal support
MEHPP018	MEHPD018	Eccentric
MEHPP019	MEHPD019	Flange plate for eccentric
MEHPP020	MEHPD020	Rear plate (slider block)
MEHPP021	MEHPD021	Seal housing for slider
MEHPP022	MEHPD022	Side plate (slider block) (LH)
MEHPP023	MEHPD023	Side plate (slider block) (RH)
MEHPP024	MEHPD024	Slider block
MEHPP025	MEHPD025	Locking nut for plunger
MEHPP026	MEHPD026	Top plate (slider block)
MEHPP027	MEHPD027	Block connecting bracket
MEHPP028	MEHPD028	Bush (for connecting big end)
MEHPP029	MEHPD029	Bush (for crank shaft assembly)
MEHPP030	MEHPD030	Dead end cover
MEHPP031	MEHPD031	Slider pin
MEHPP032	MEHPD032	Half ring for plunger
MEHPP033	MEHPD033	Inner spacer for eccentric
MEHPP034	MEHPD034	NRV intake ball retainer
MEHPP035	MEHPD035	Outer spacer for eccentric
MEHPP036	MEHPD036	Plunger
MEHPP037	MEHPD037	Sleeve for slider
MEHPP038	MEHPD038	Crank shaft
MEHPP039	MEHPD039	Slider
MEHPP040	MEHPD040	Stuffing box cap

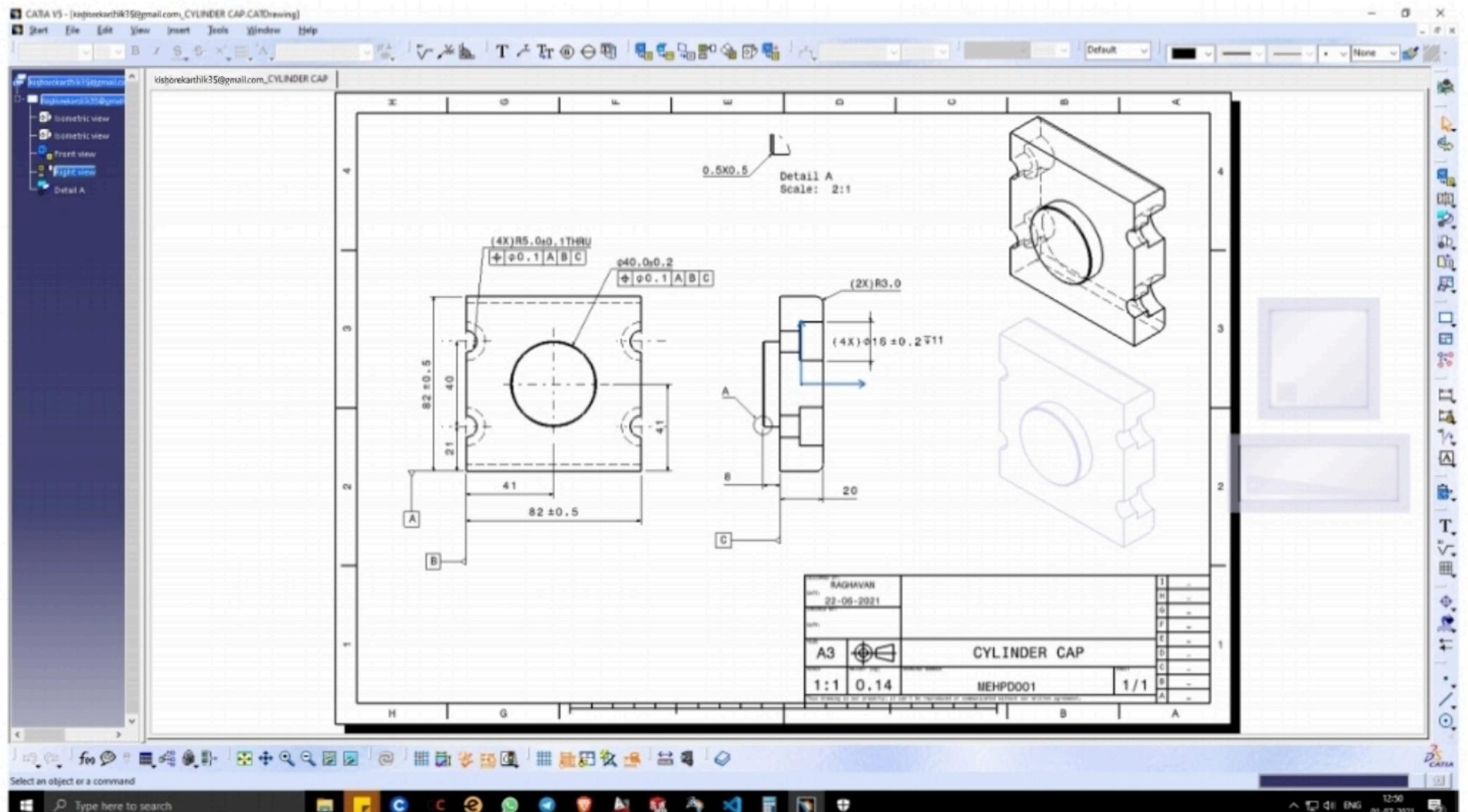
PART NAME : CYLINDER CAP

PART NUMBER: MEHPP001



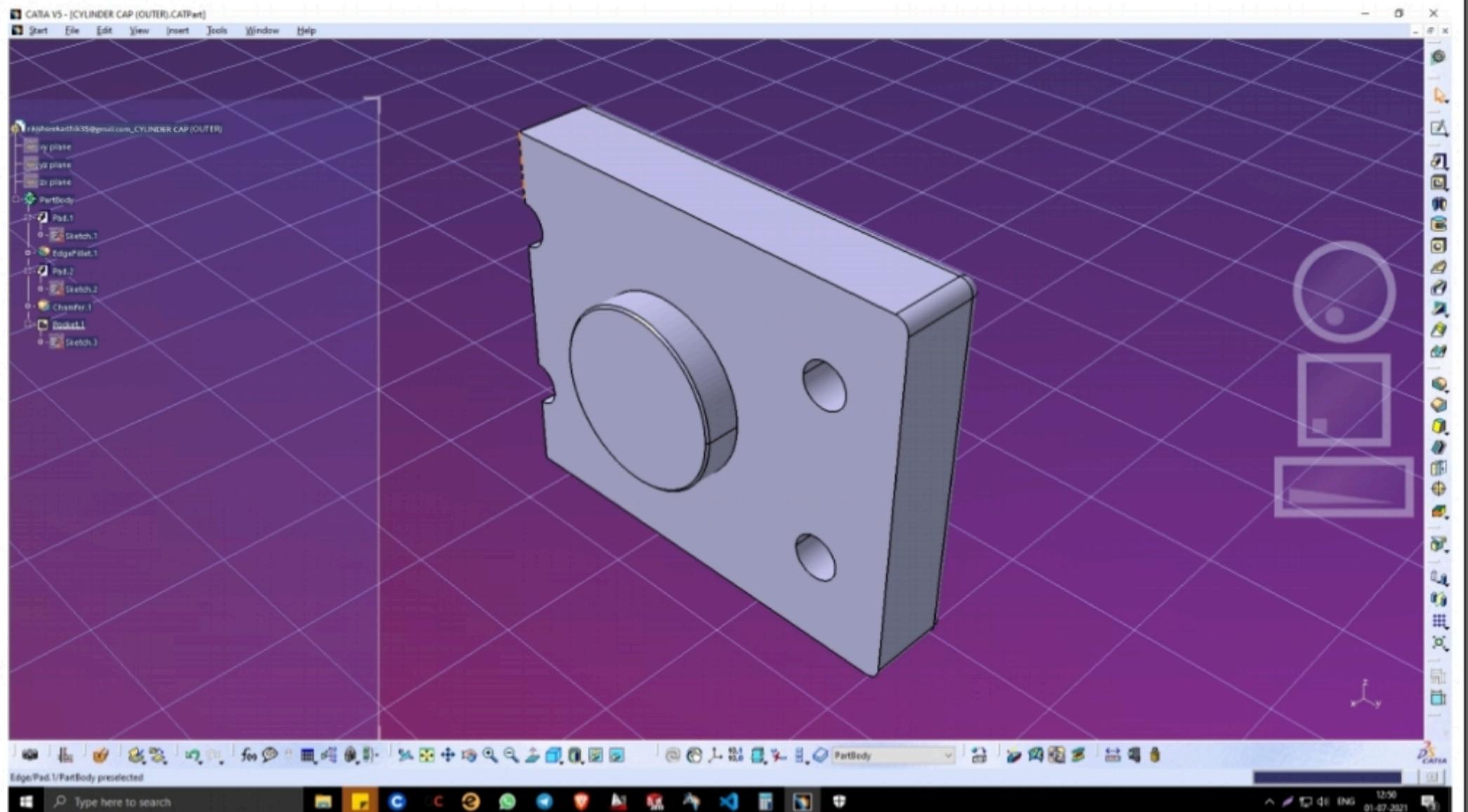
DRAWING NAME : CYLINDER CAP

DRAWING NUMBER : MEHPD001



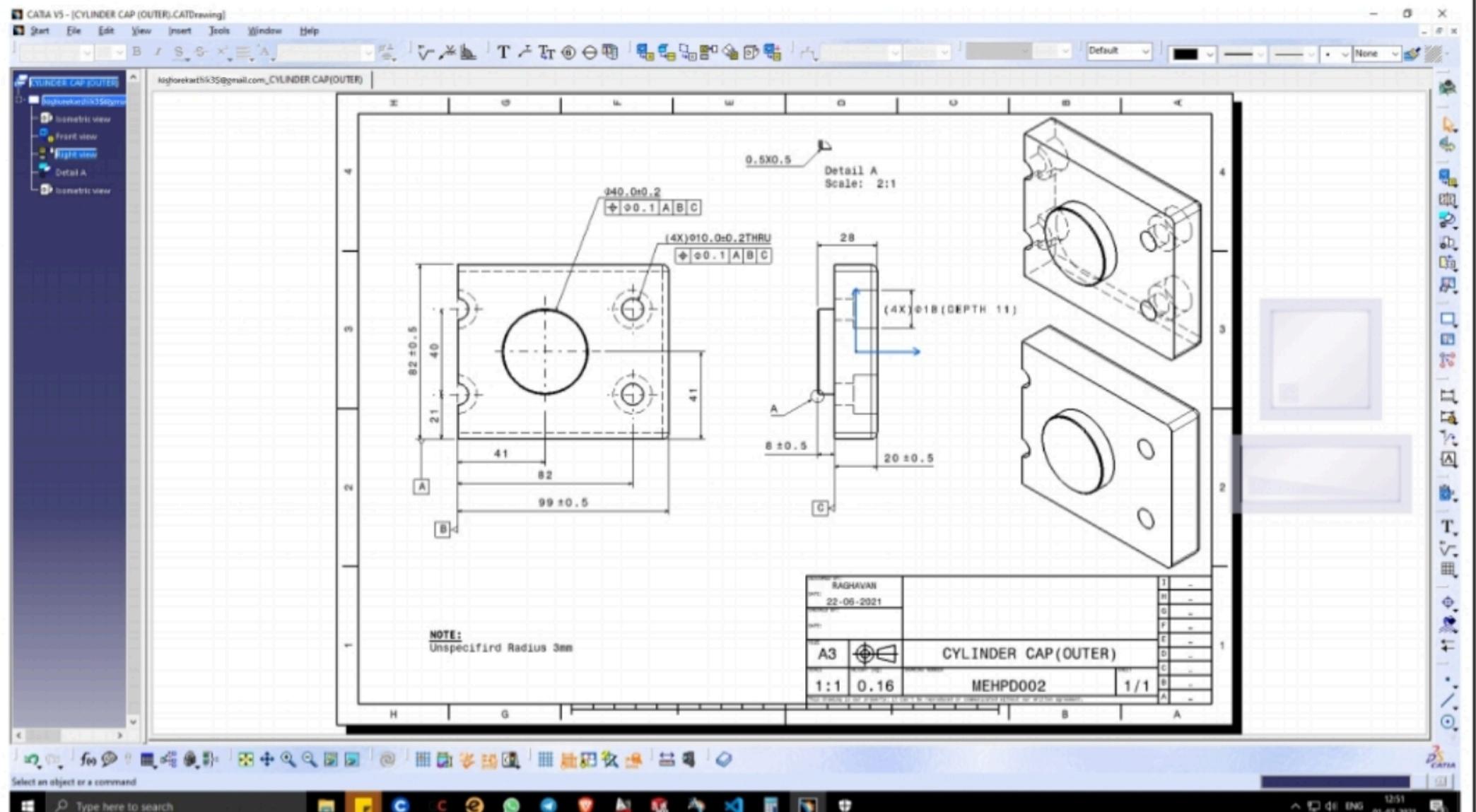
PART NAME : CYLINDER CAP (OUTER)

PART NUMBER : MEHPP002



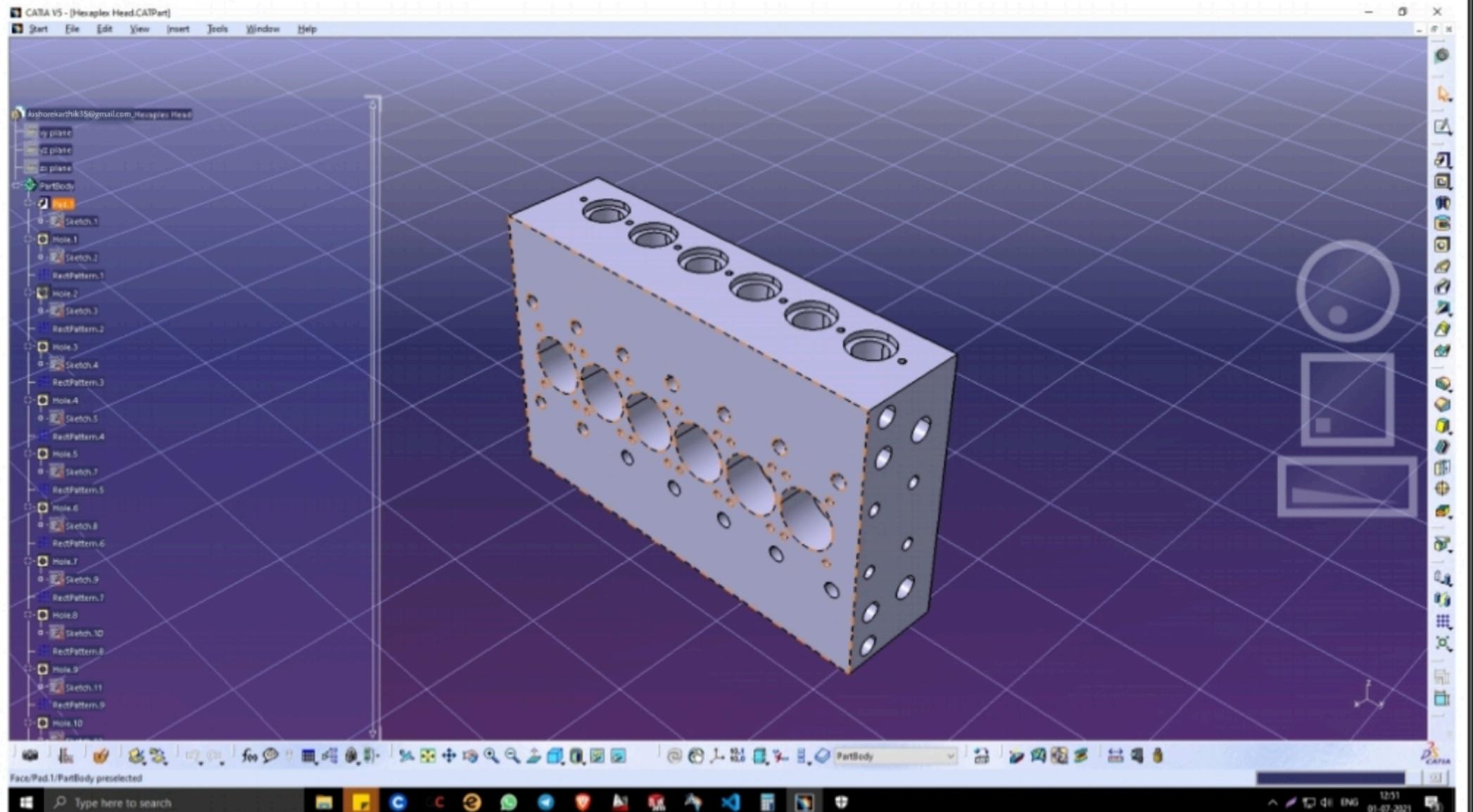
DRAWING NAME : CYLINDER CAP (OUTER)

DRAWING NUMBER: MEHPD002



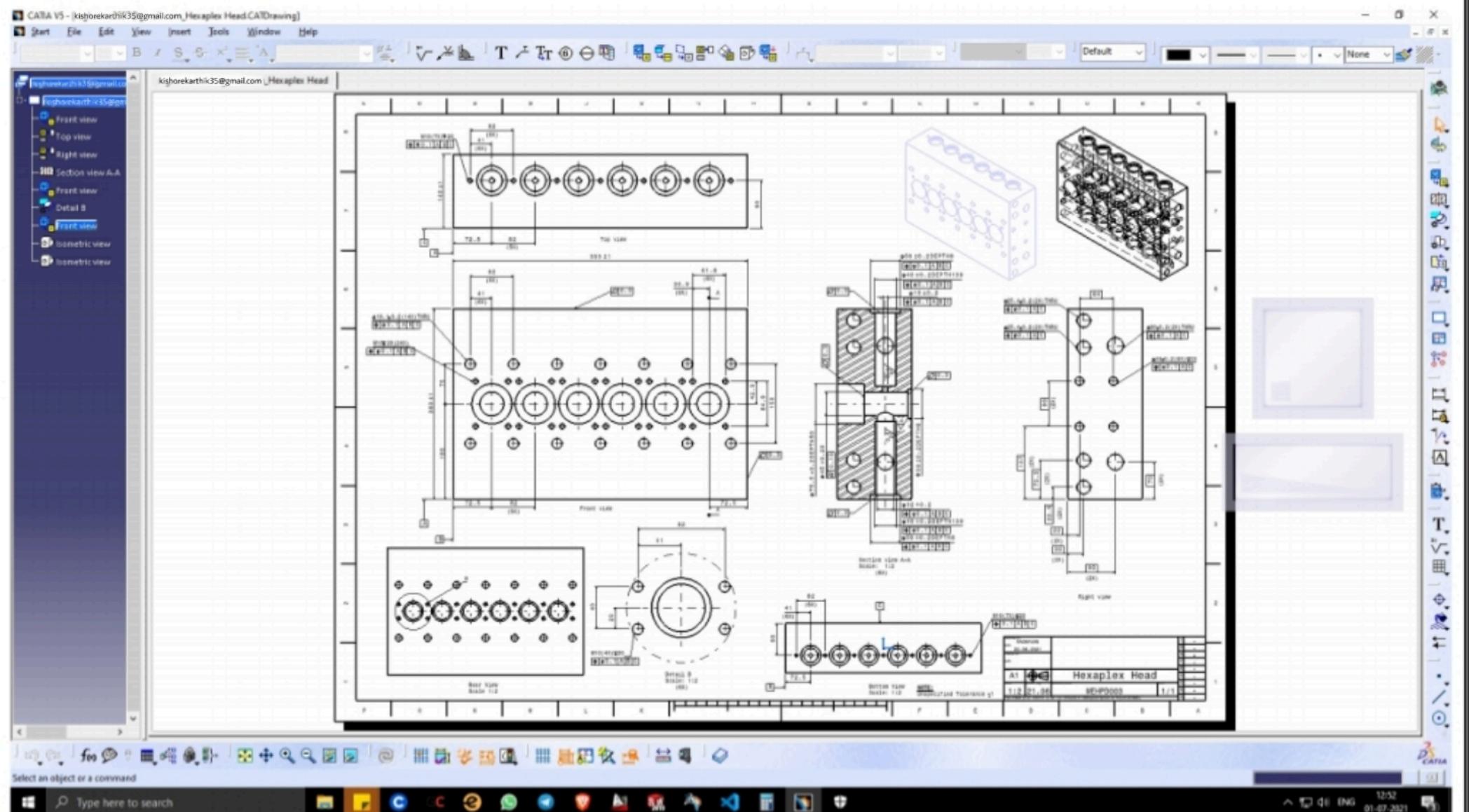
PART NAME : HEXAPLUX HEAD

PART NUMBER : MEHPP003



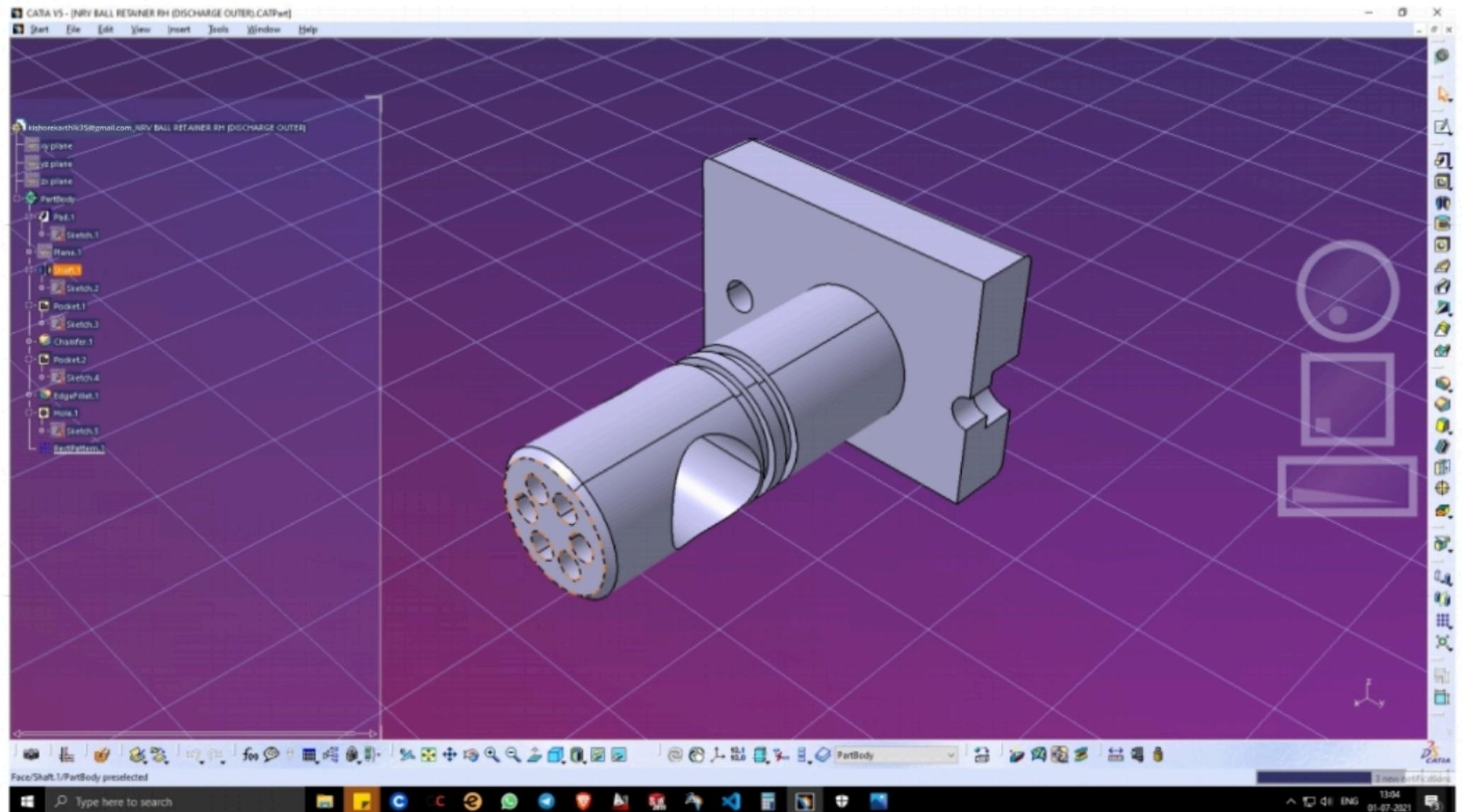
DRAWING NAME : HEXAPLUX HEAD

DRAWING NUMBER : MEHPD003



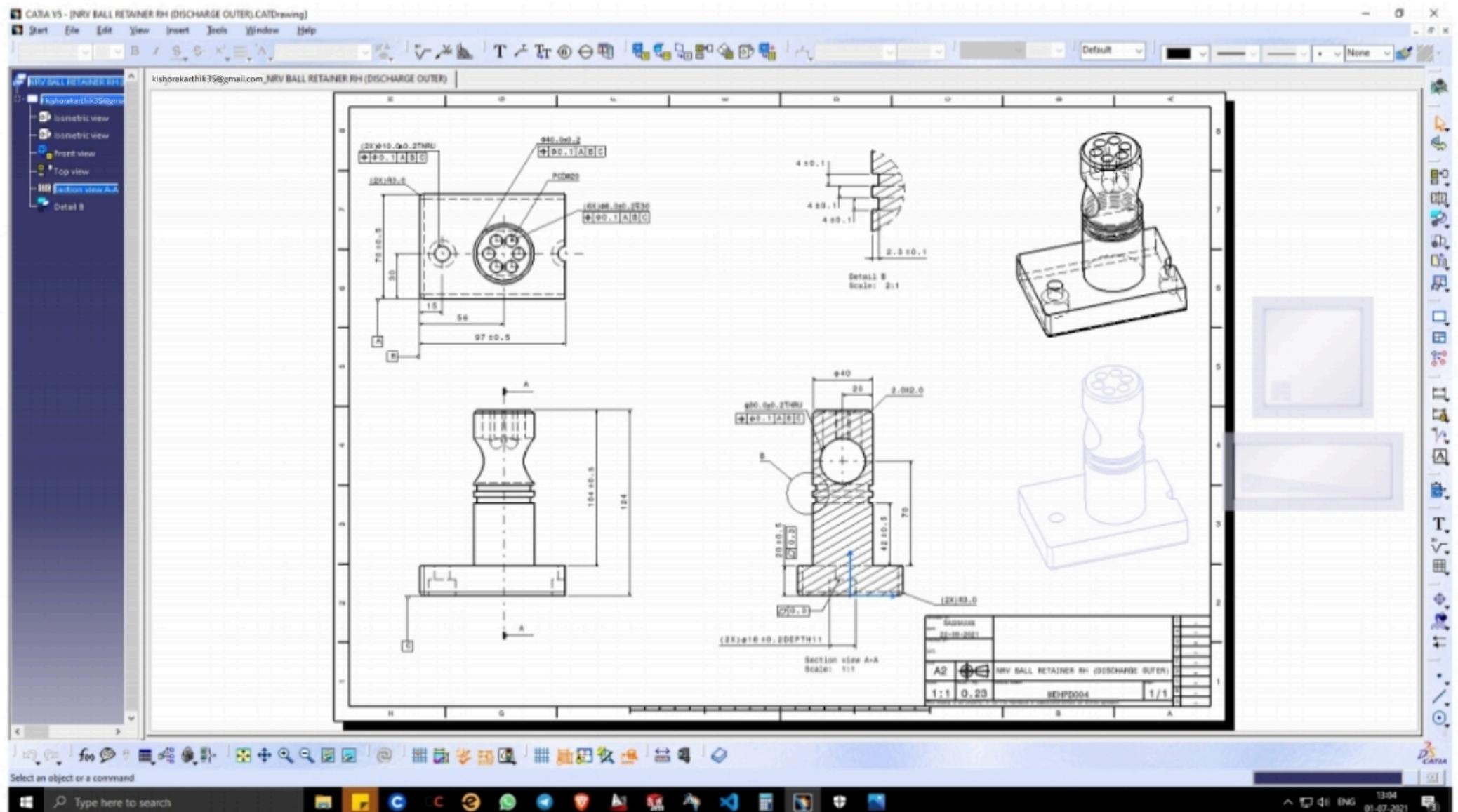
PART NAME : NRV BALL RETAINER RH (DISCHARGE OUTER)

PART NUMBER : MEHPP004



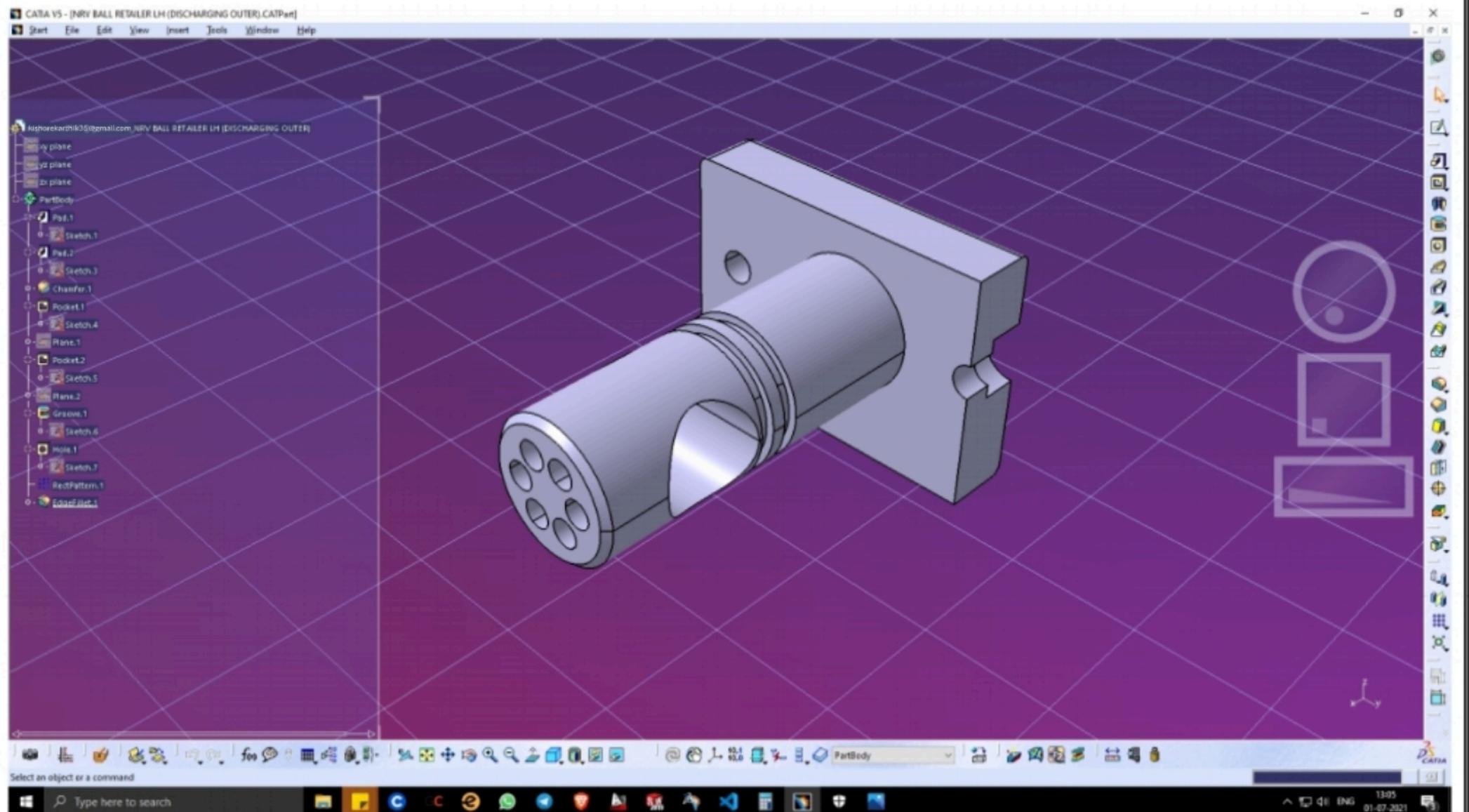
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DRAWING NUMBER : MEHPD004



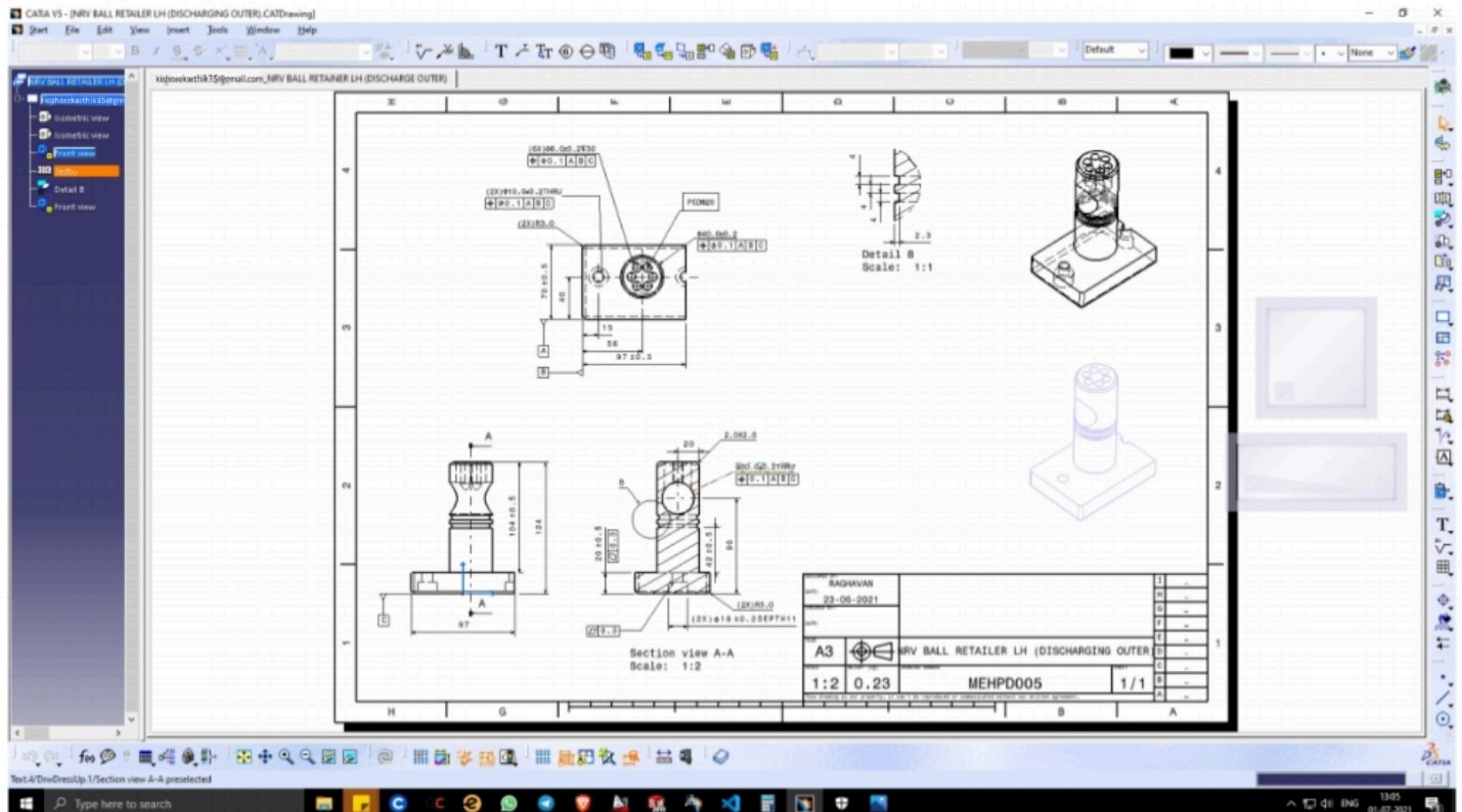
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PART NUMBER : MEHPP005



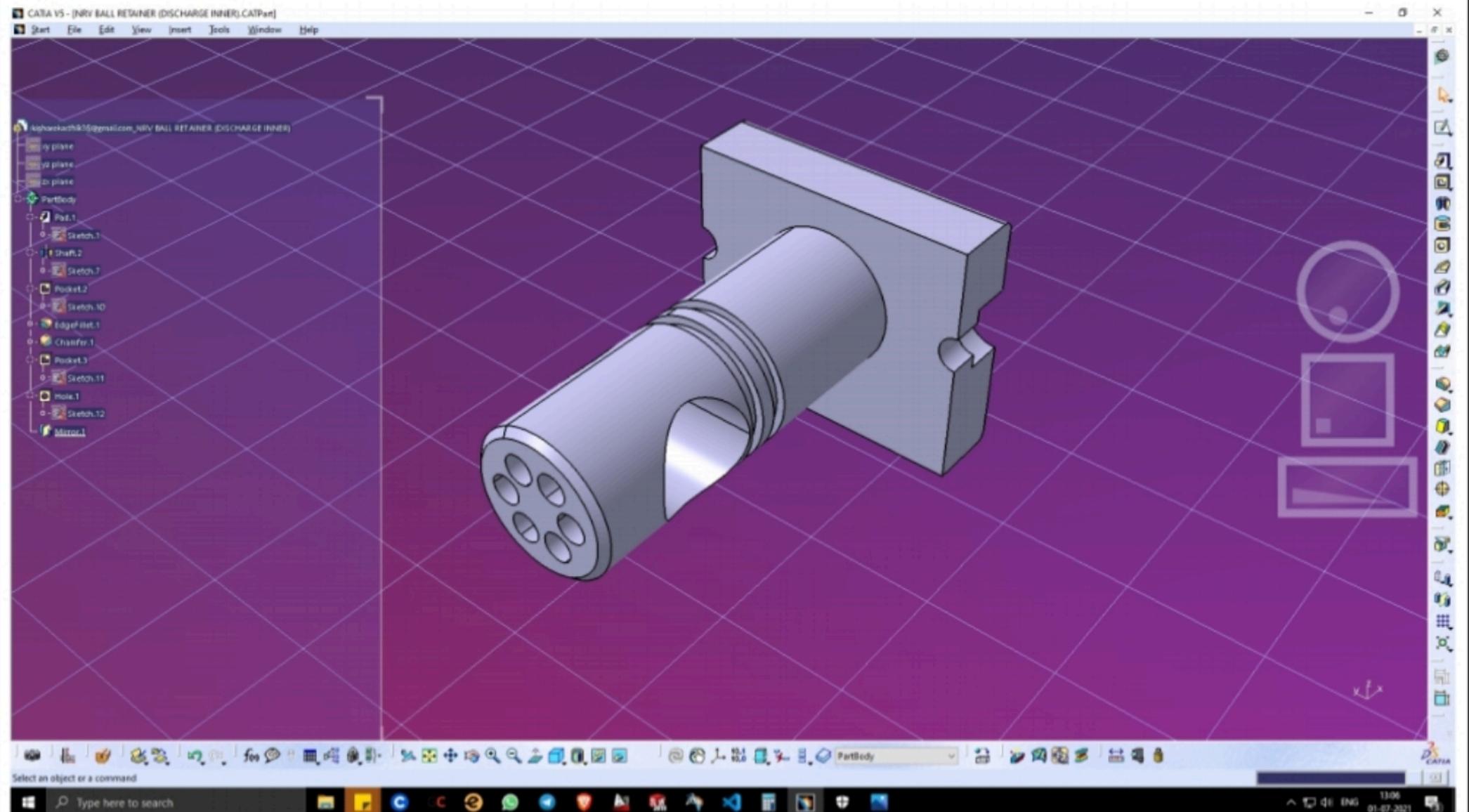
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DRAWING NUMBER : MEHPD005



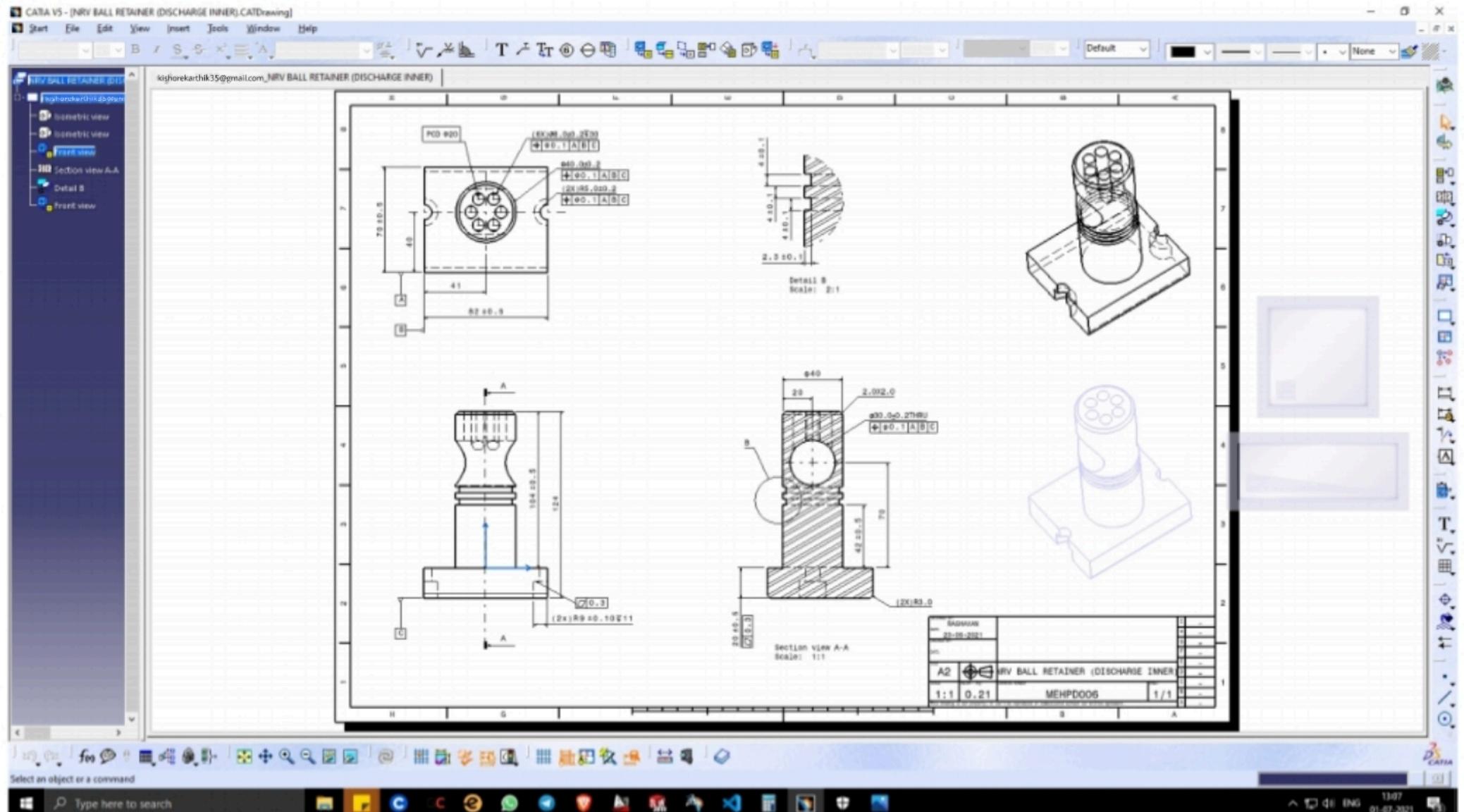
PART NAME : NRV BALL RETAINER (DISCHARGE INNER)

PART NUMBER : MEHPP006



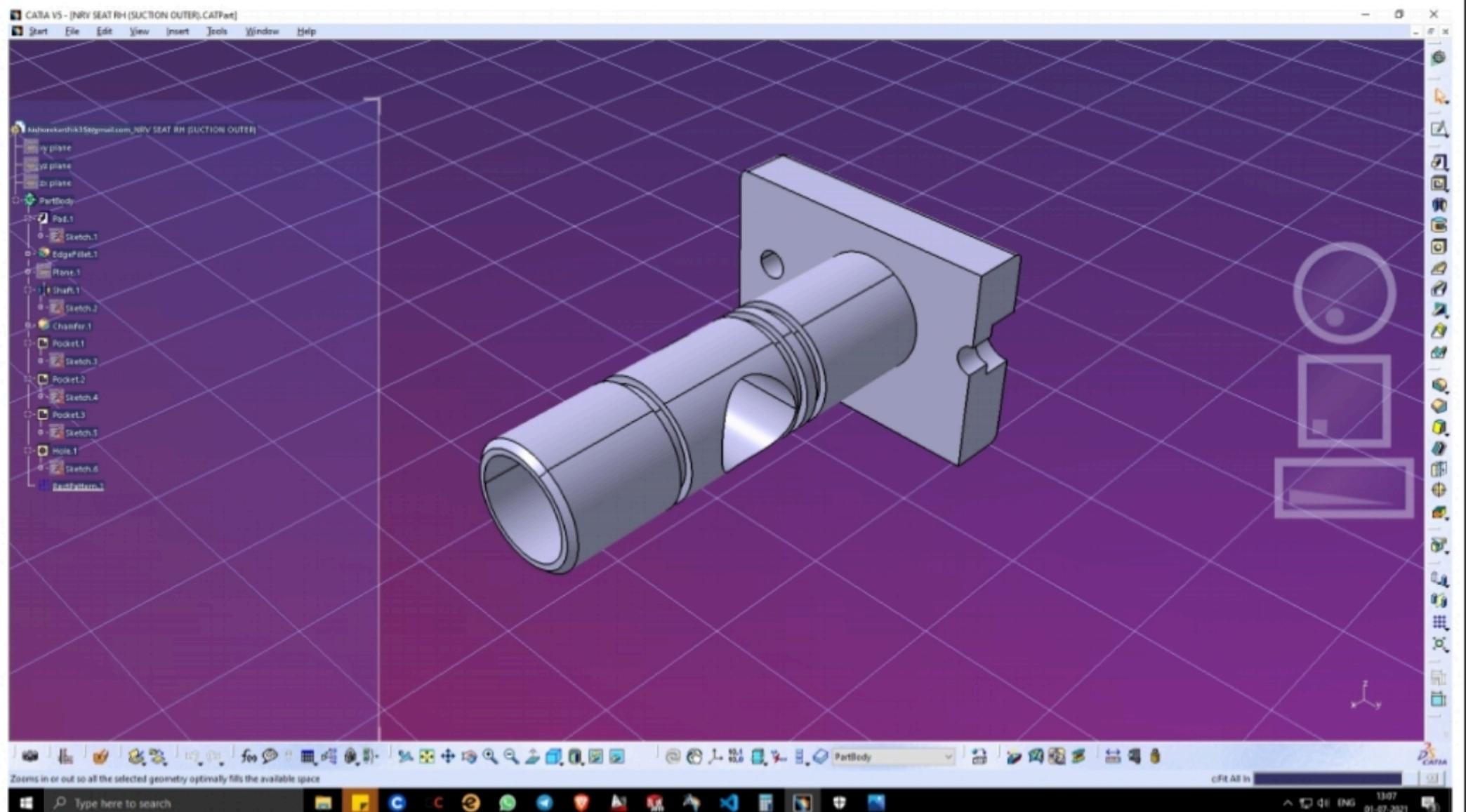
DRAWING NAME : NRV BALL RETAINER (DISCHARGE INNER)

DRAWING NUMBER : MEHPD006



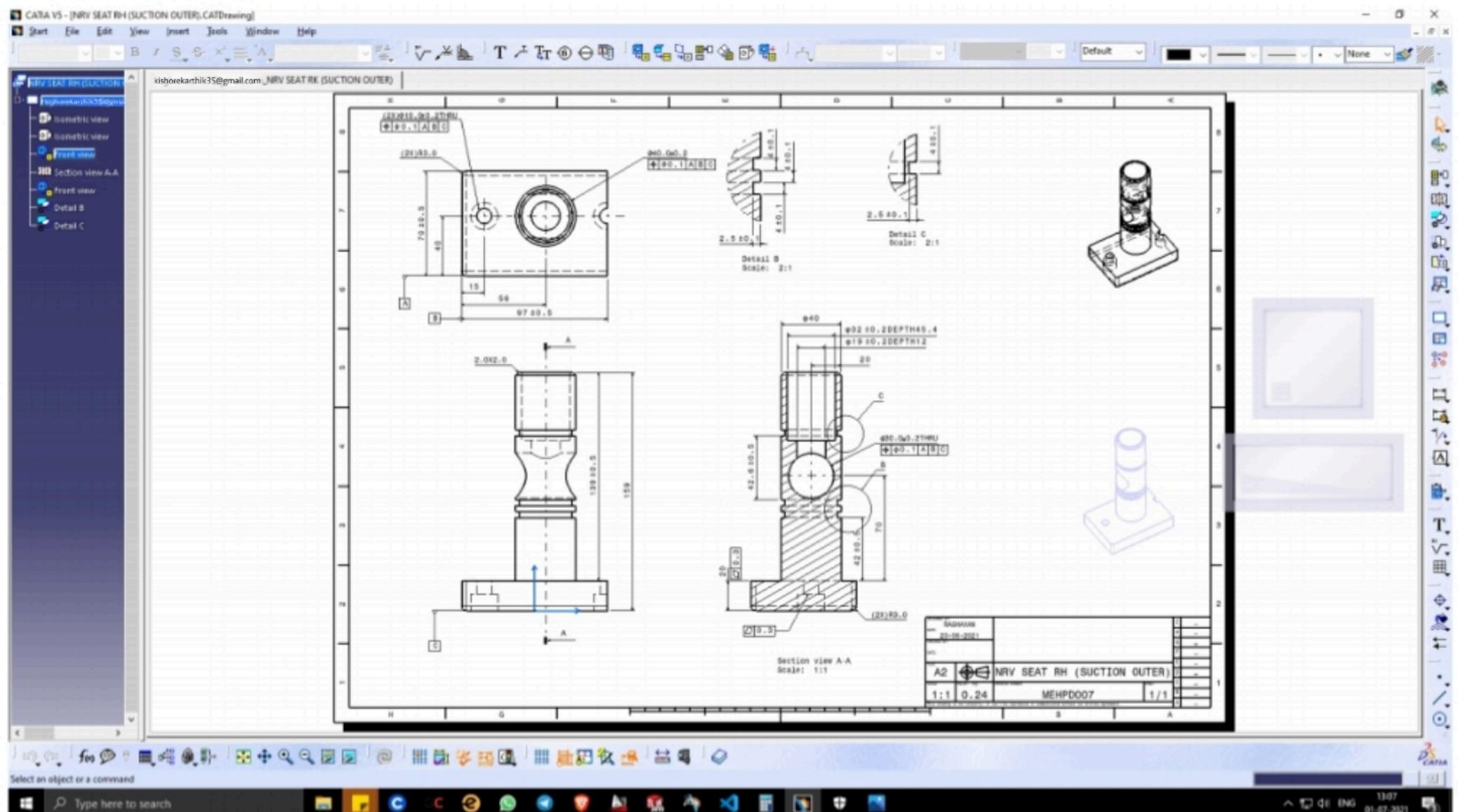
PART NAME : NRV SEAT RH (SUCTION OUTER)

PART NUMBER : MEHPP007



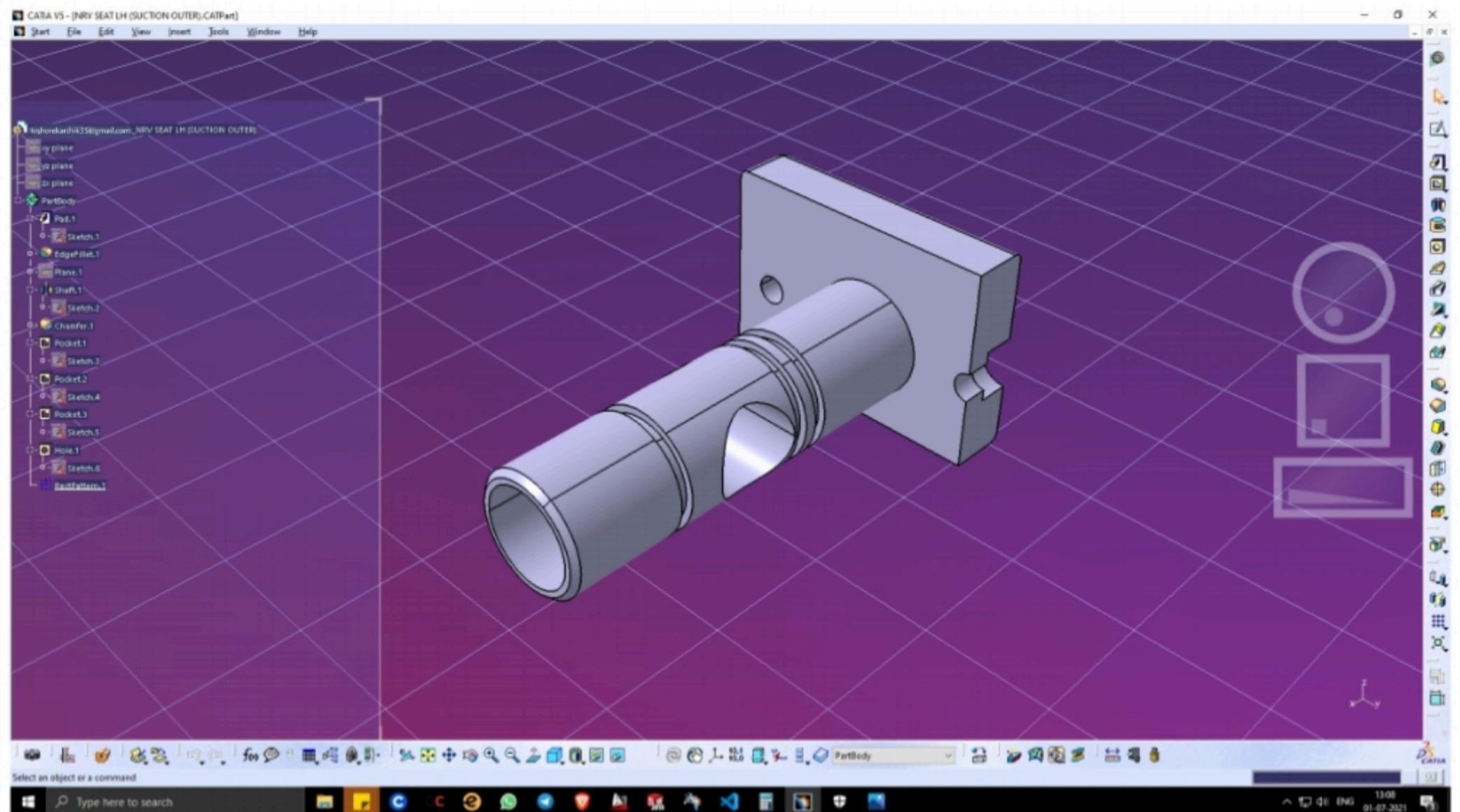
DRAWING NAME : NRV SEAT RH (SUCTION OUTER)

DRAWING NUMBER : MEHPD007



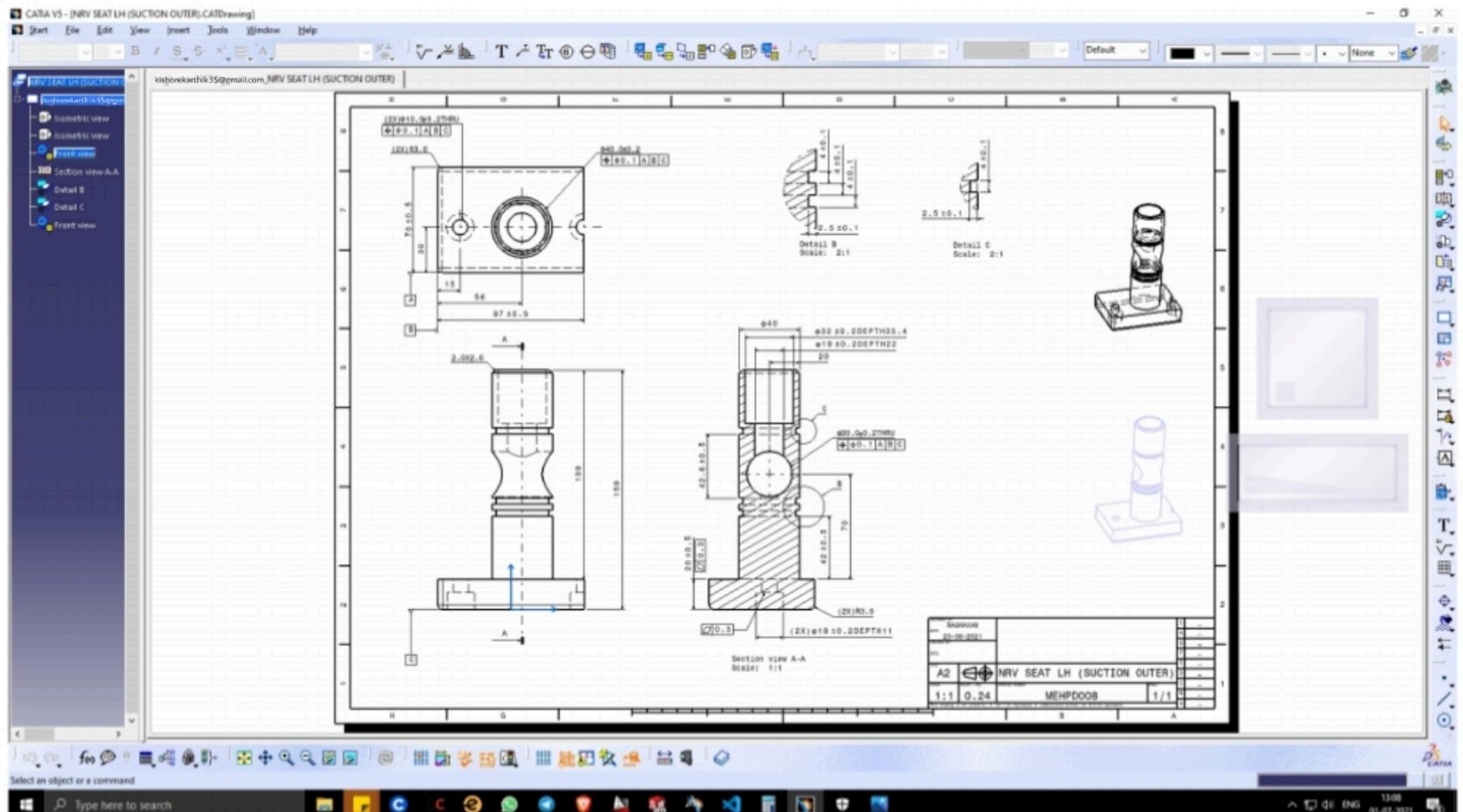
PART NAME : NRV SEAT LH (SUCTION OUTER)

PART NUMBER : MEHPP008



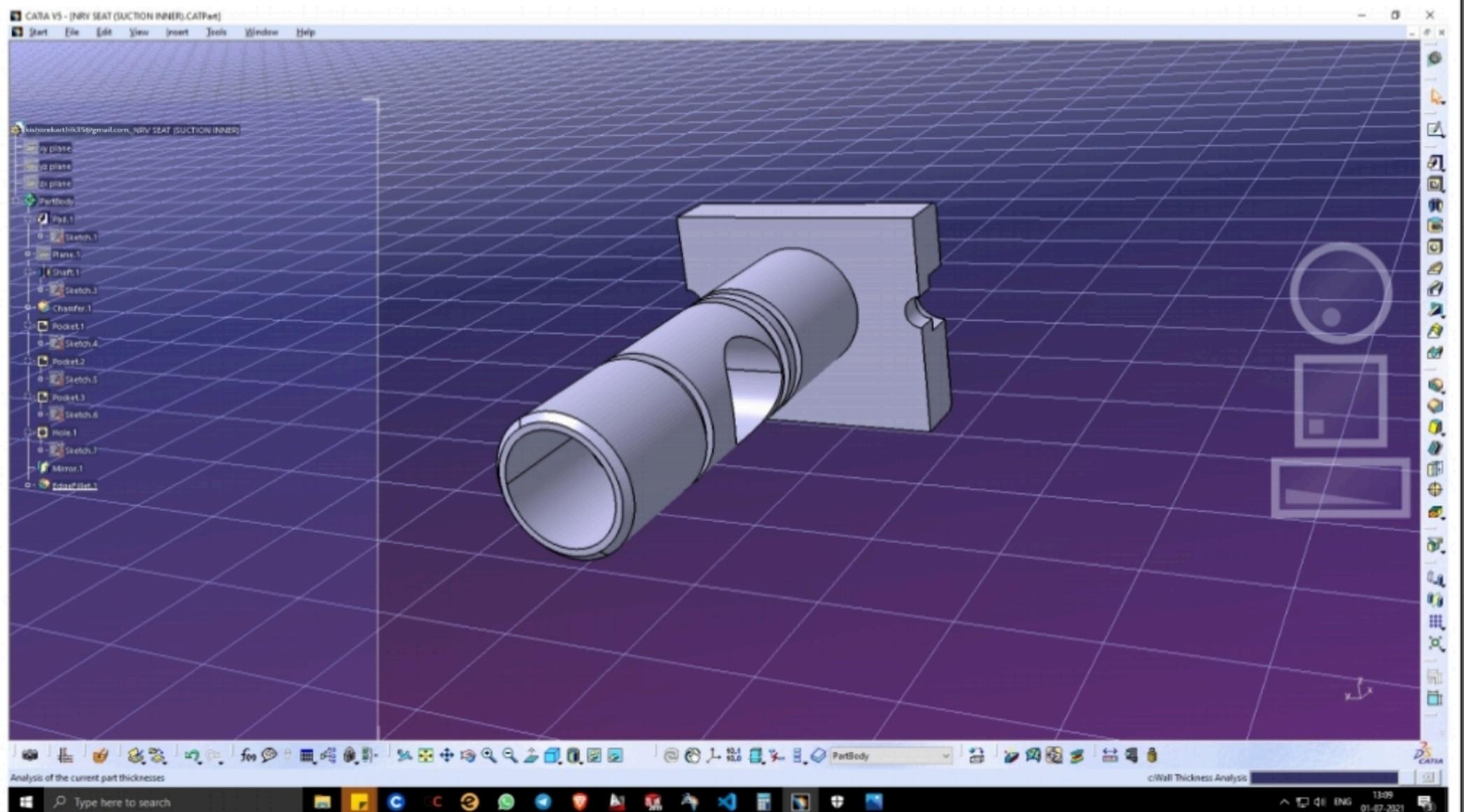
DRAWING NAME : NRV SEAT LH (SUCTION OUTER)

DRAWING NUMBER : MEHPD008



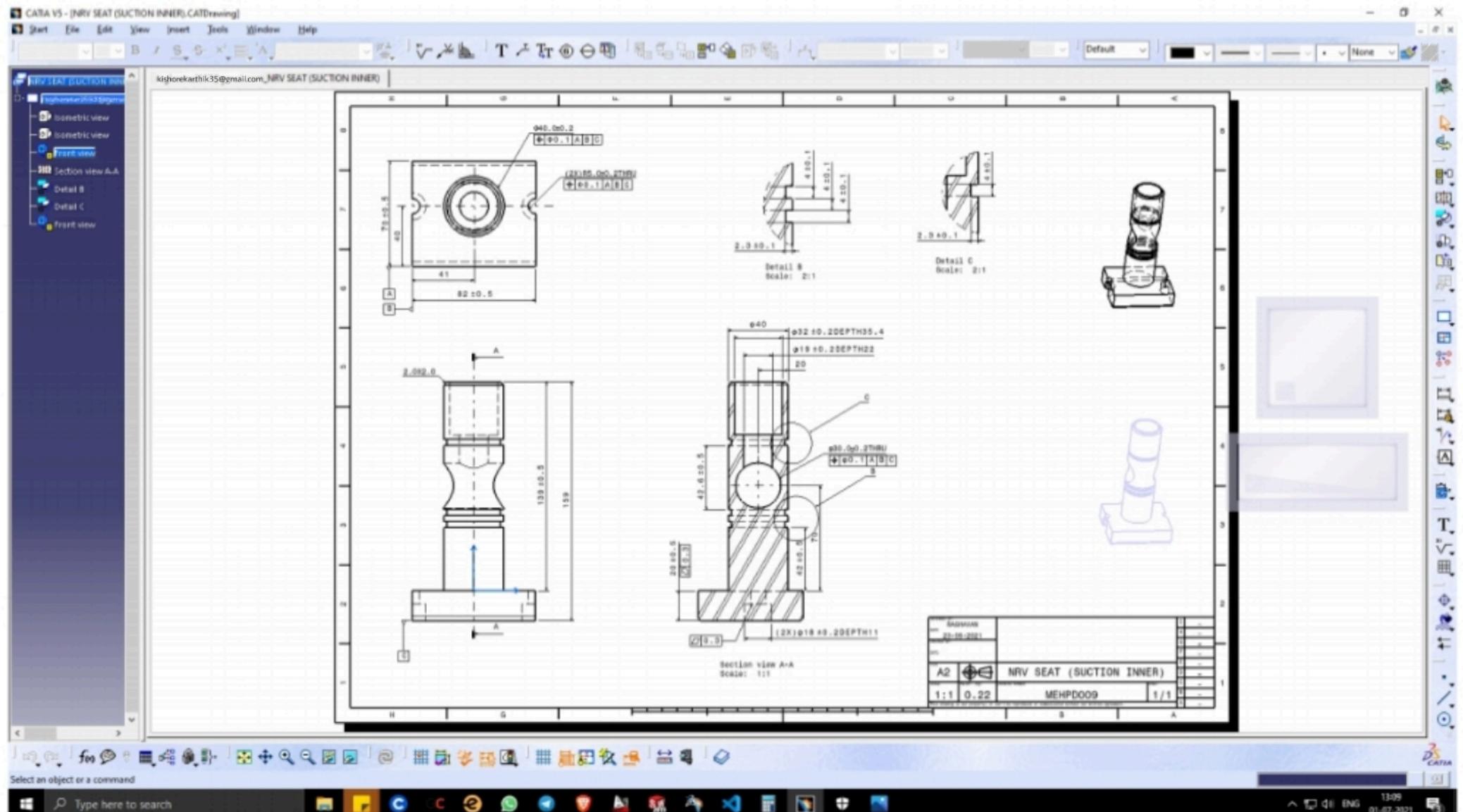
PART NAME : NRV SEAT (SUCTION INNER)

PART NUMBER : MEHPP009



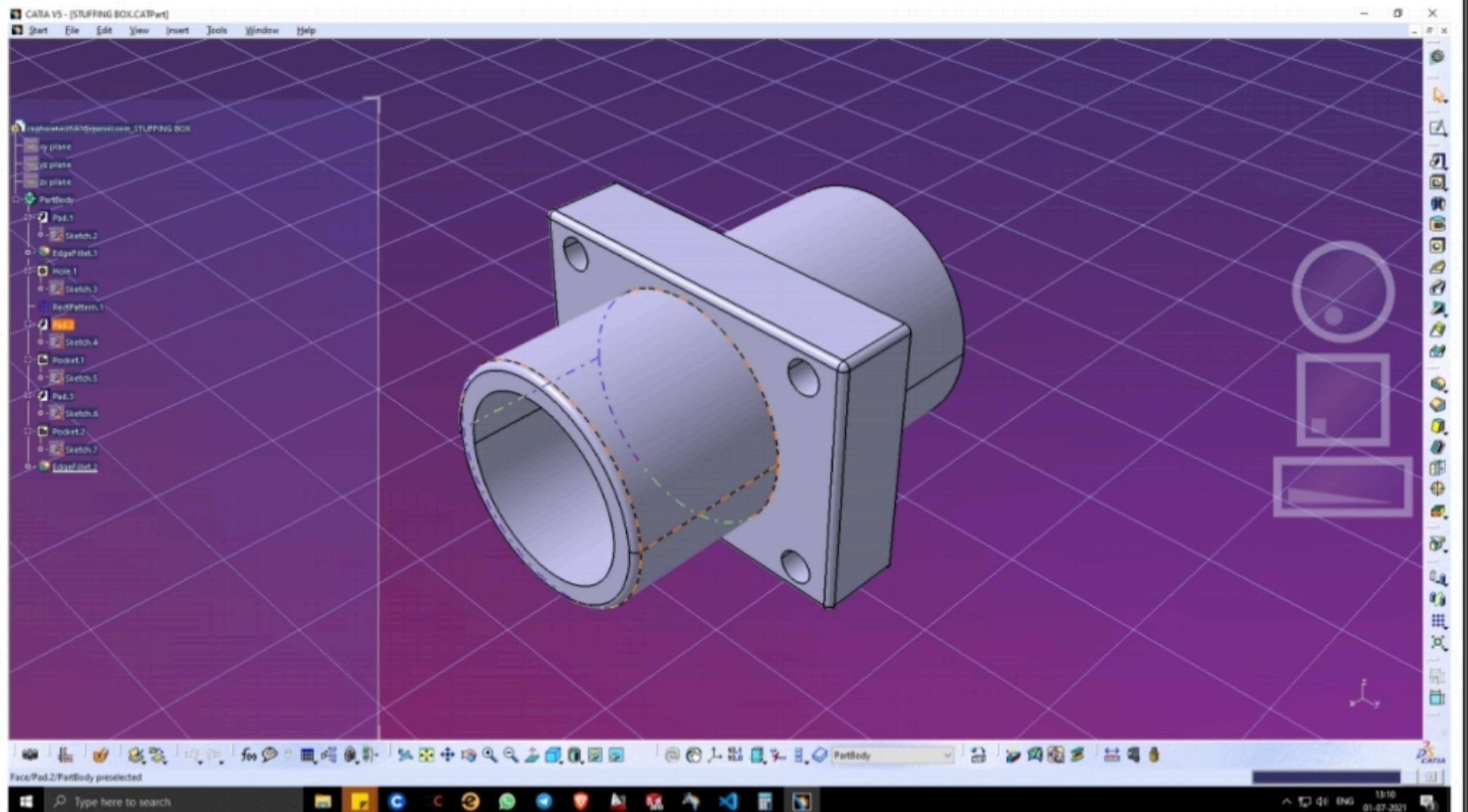
DRAWING NAME : NRV SEAT (SUCTION INNER)

DRAWING NUMBER : MEHPD009



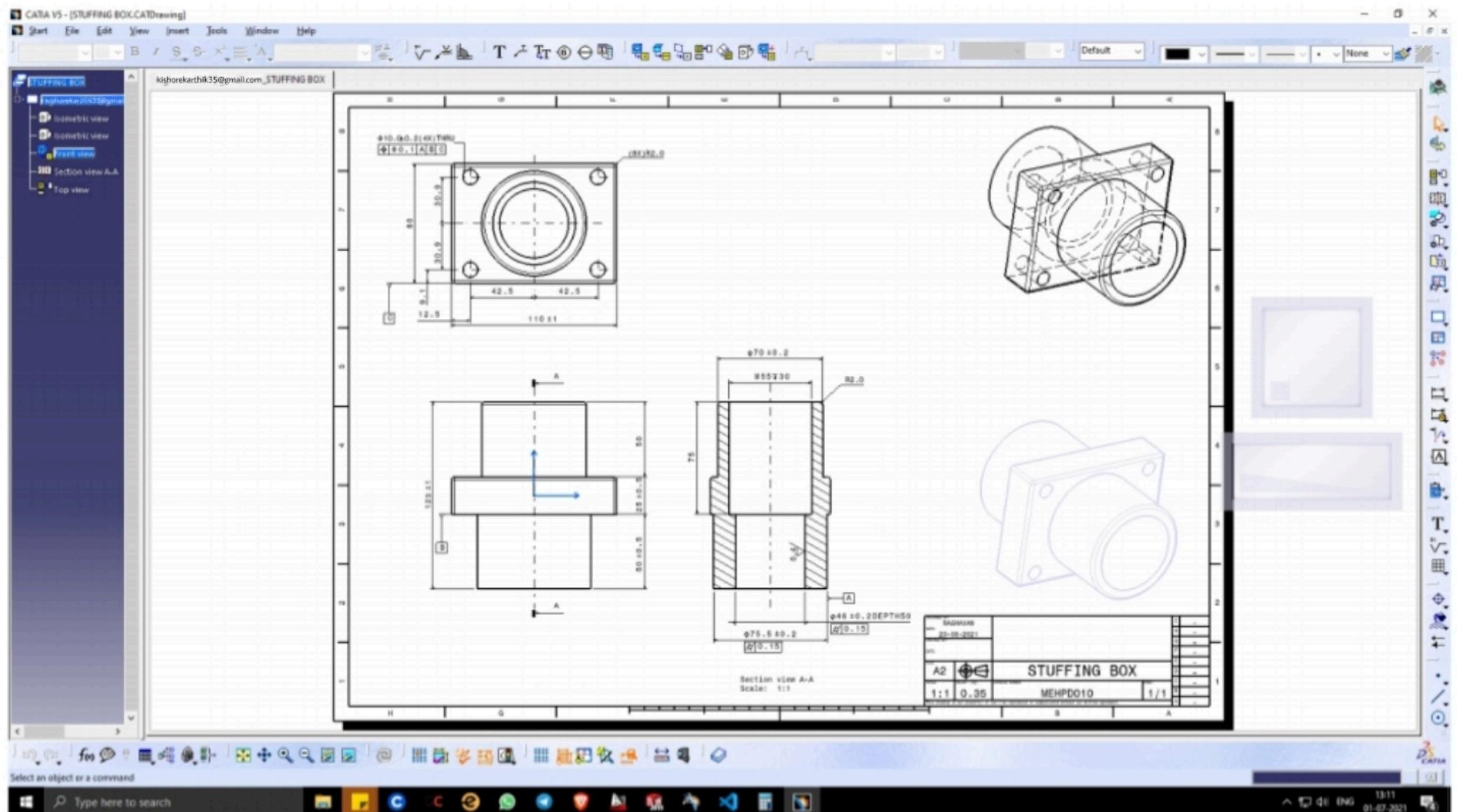
PART NAME : STUFFING BOX

PART NUBER : MEHPP010



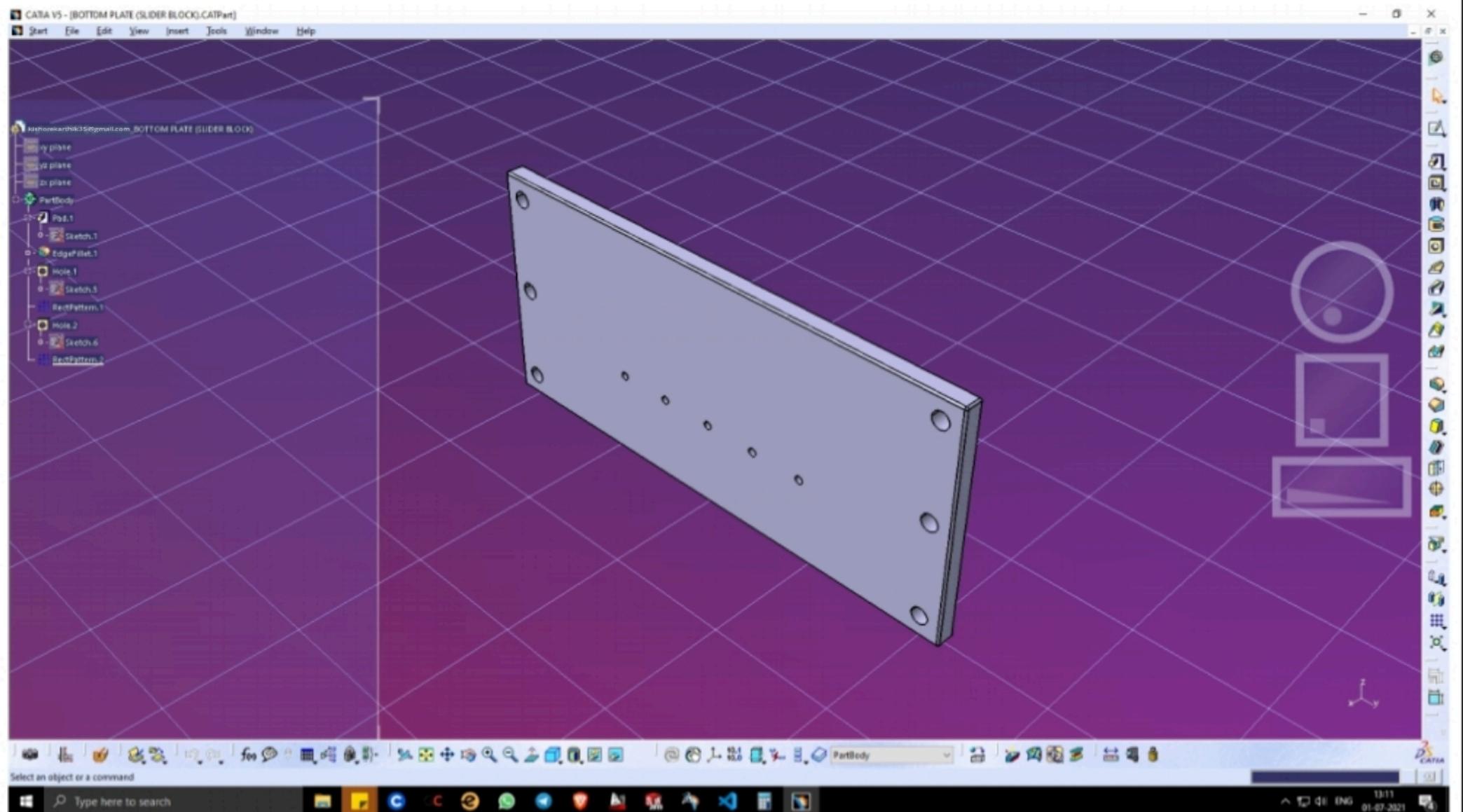
DRAWING NAME : STUFFING BOX

DRAWING NUMBER : MEHPD010



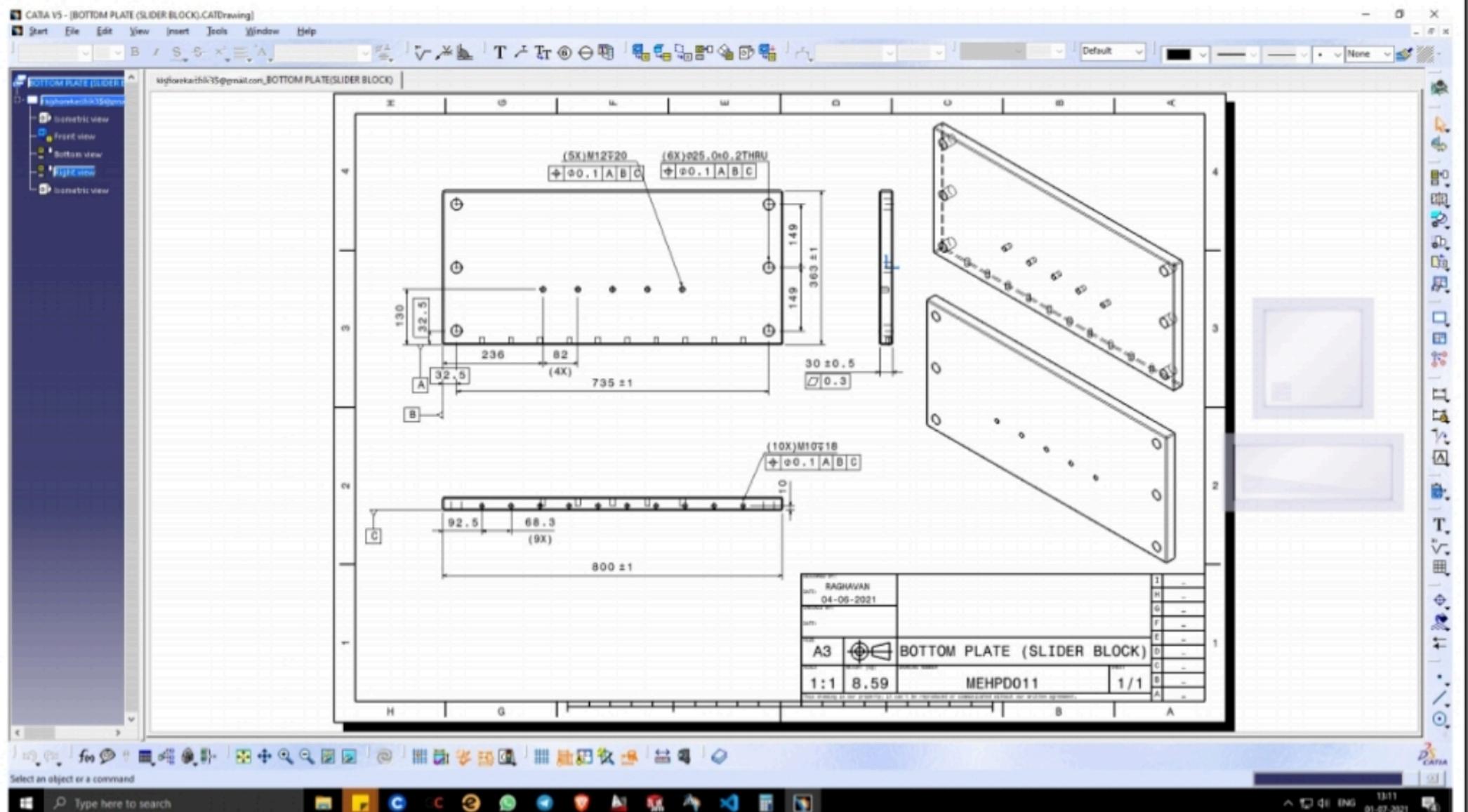
PART NAME : BOTTOM PLATE (SLIDER BLOCK)

PART NUMBER : MEHPP011



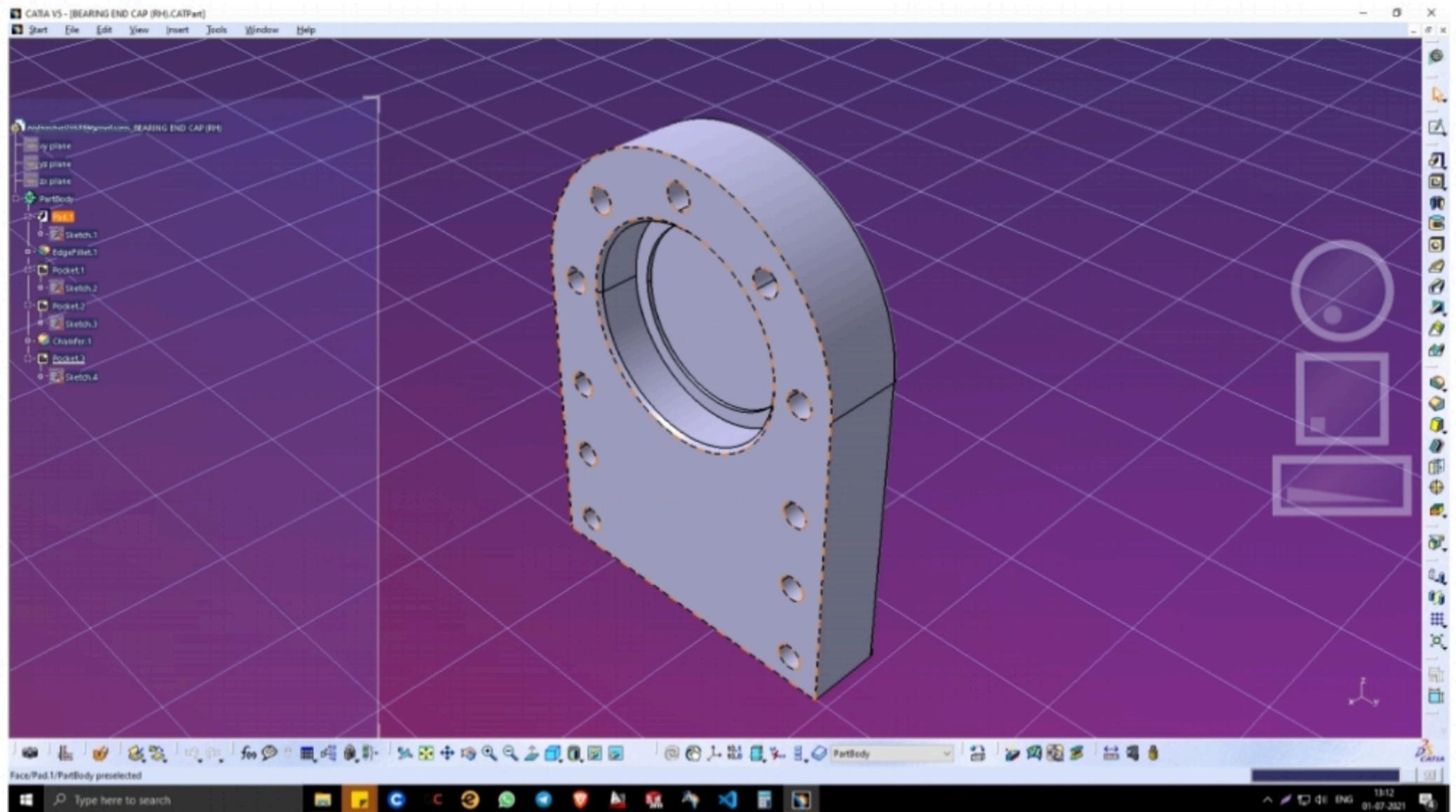
DRAWING NAME : BOTTOM PLATE (SLIDER BLOCK)

DRAWING NUMBER : MEHPD011



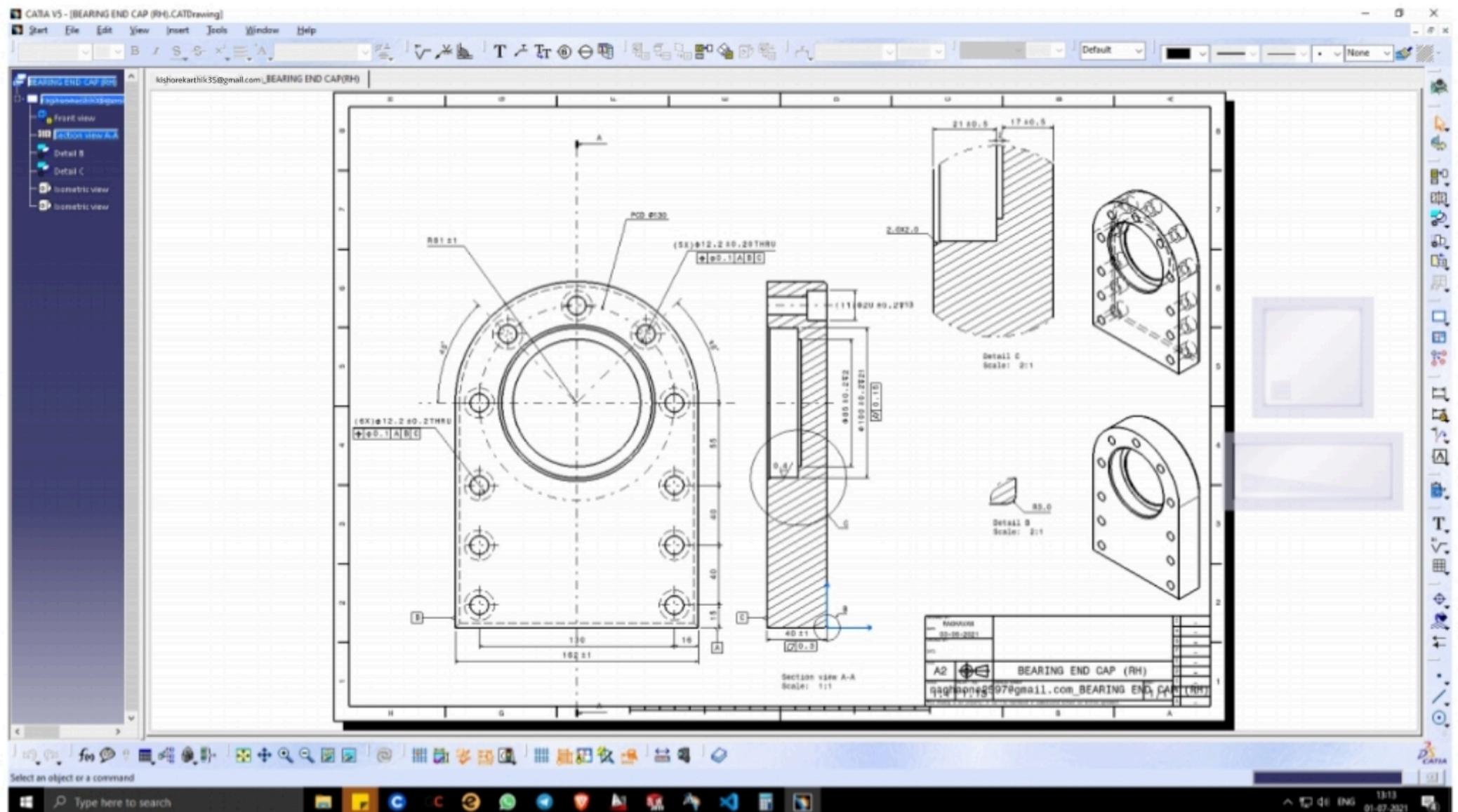
PART NAME : BEARING END CAP (RH)

PART NUBER : MEHPP012



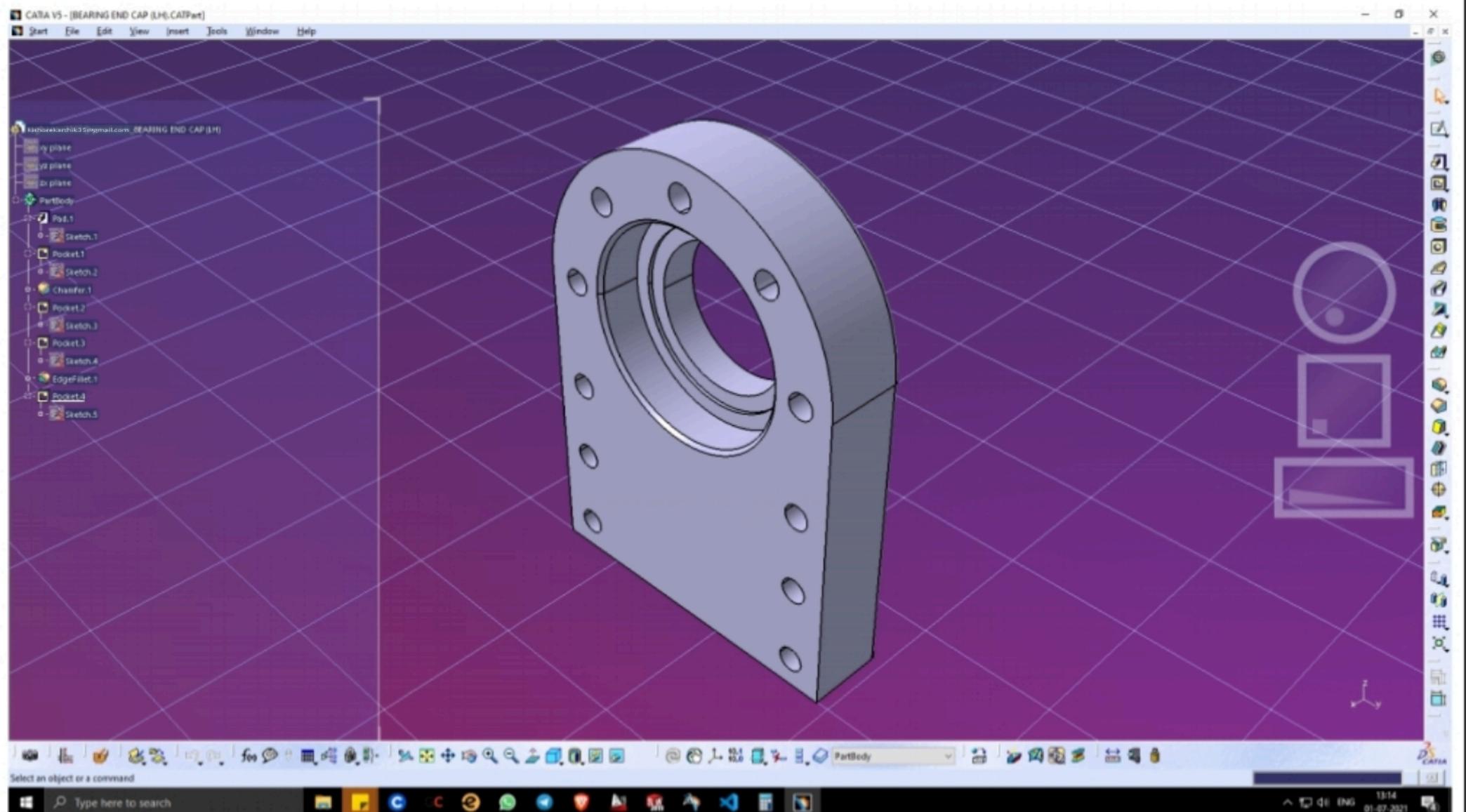
DRAWING NAME : BEARING END CAP (RH)

DRAWING NUMBER : MEHPD012



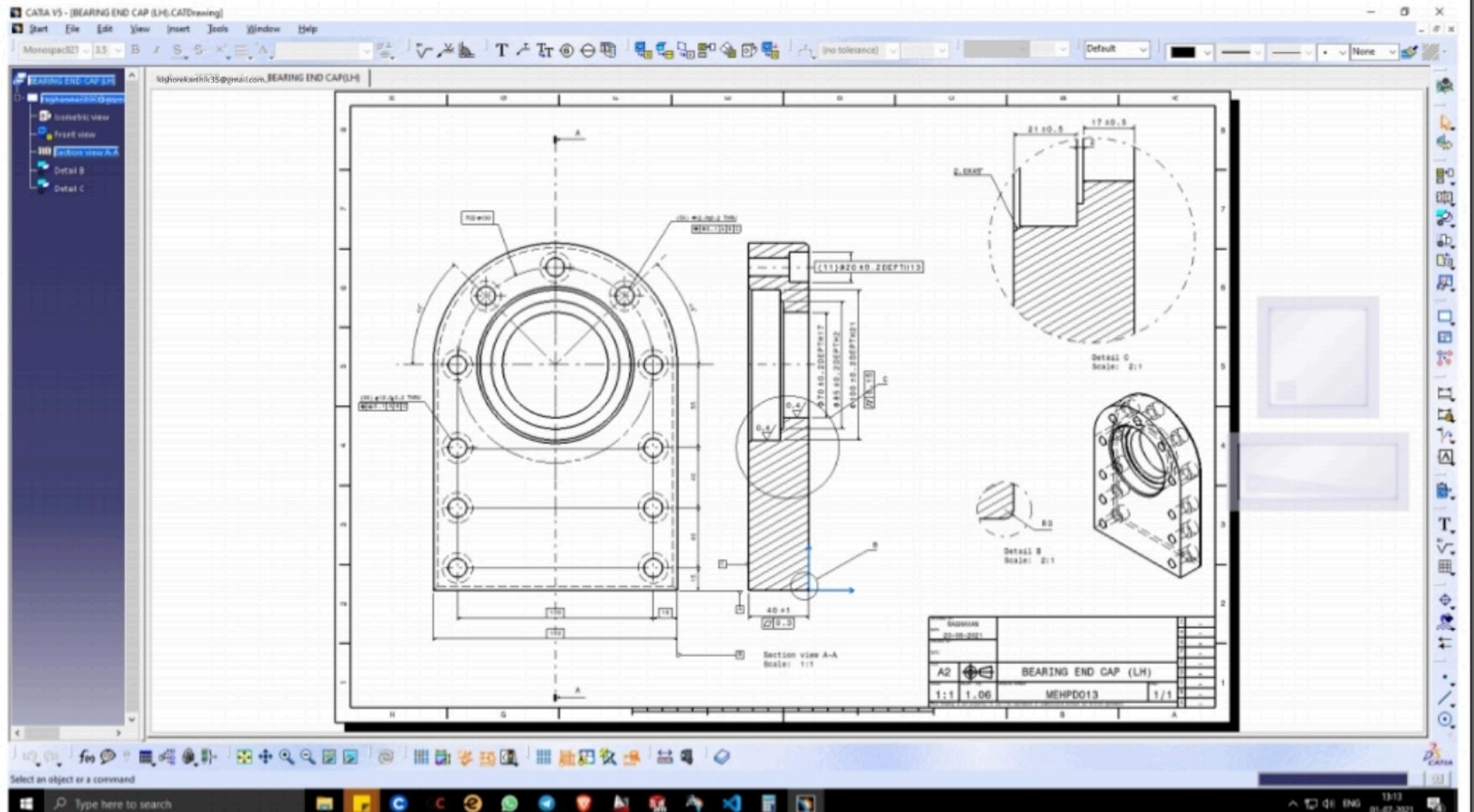
PART NAME : BEARING END CAP (LH)

PART NUMBER : MEHPP013



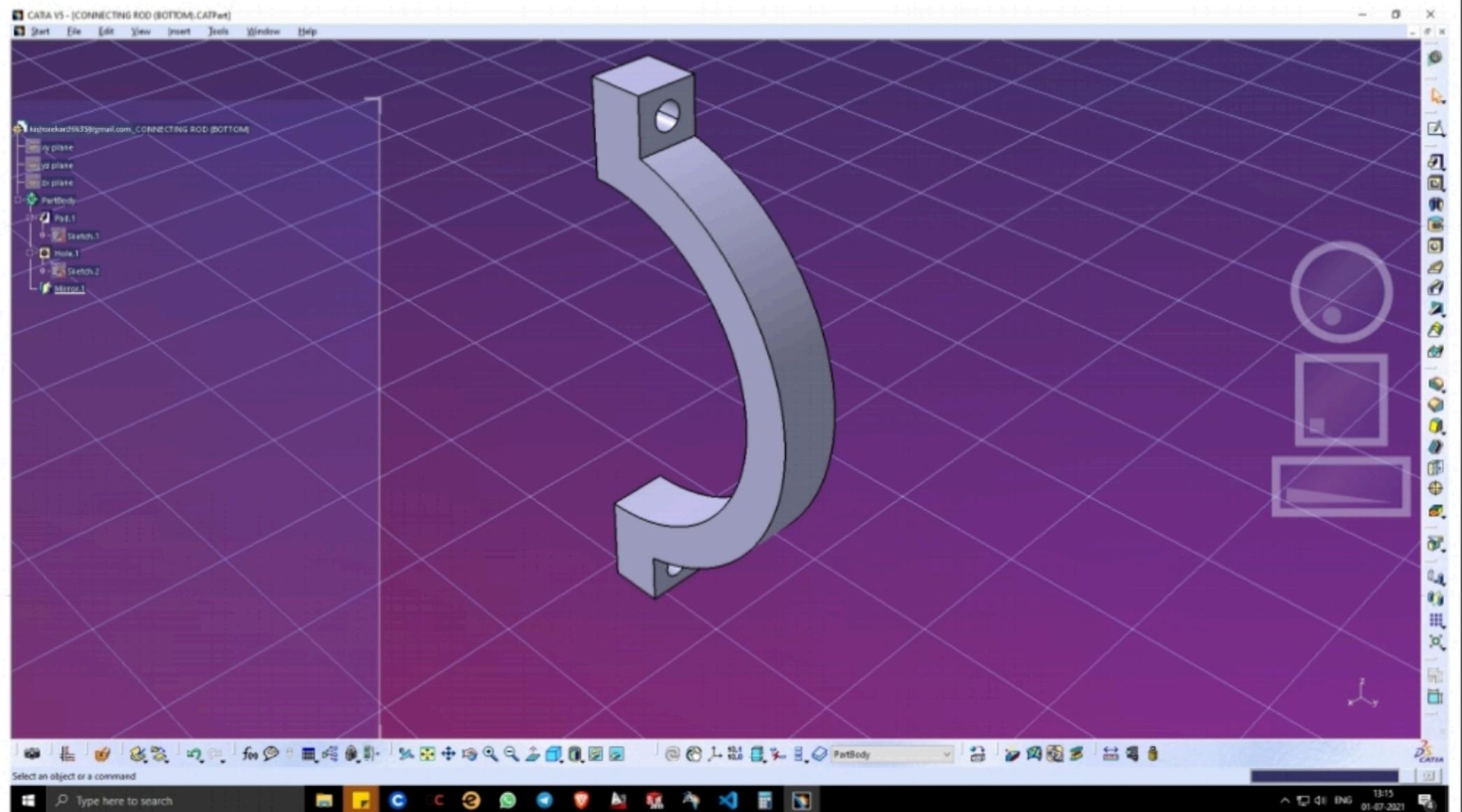
DRAWING NAME : BEARING END CAP (LH)

DRAWING NUMBER : MEHPD013



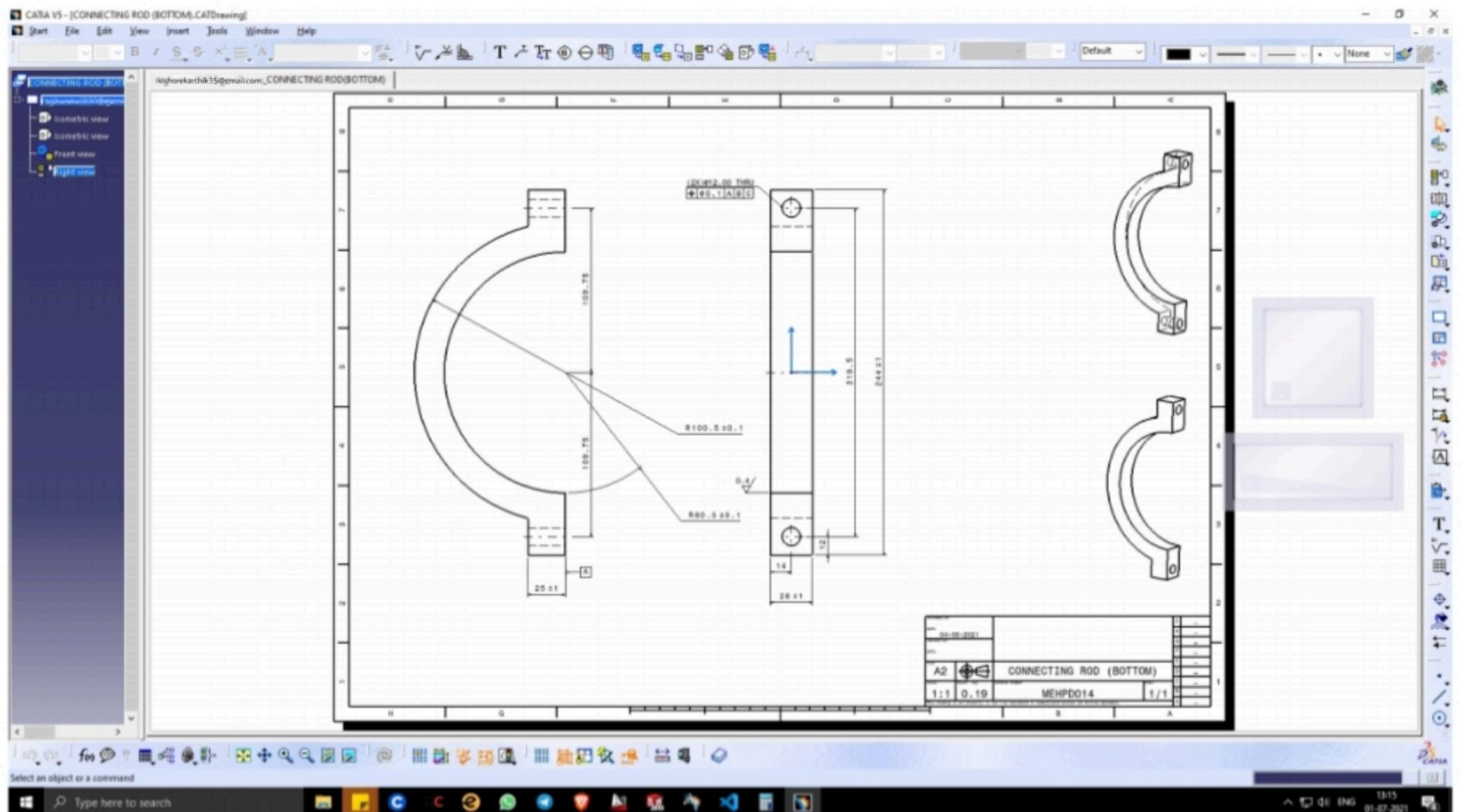
PART NAME : CONNECTING ROD (BOTTOM)

PART NUBER : MEHPP014



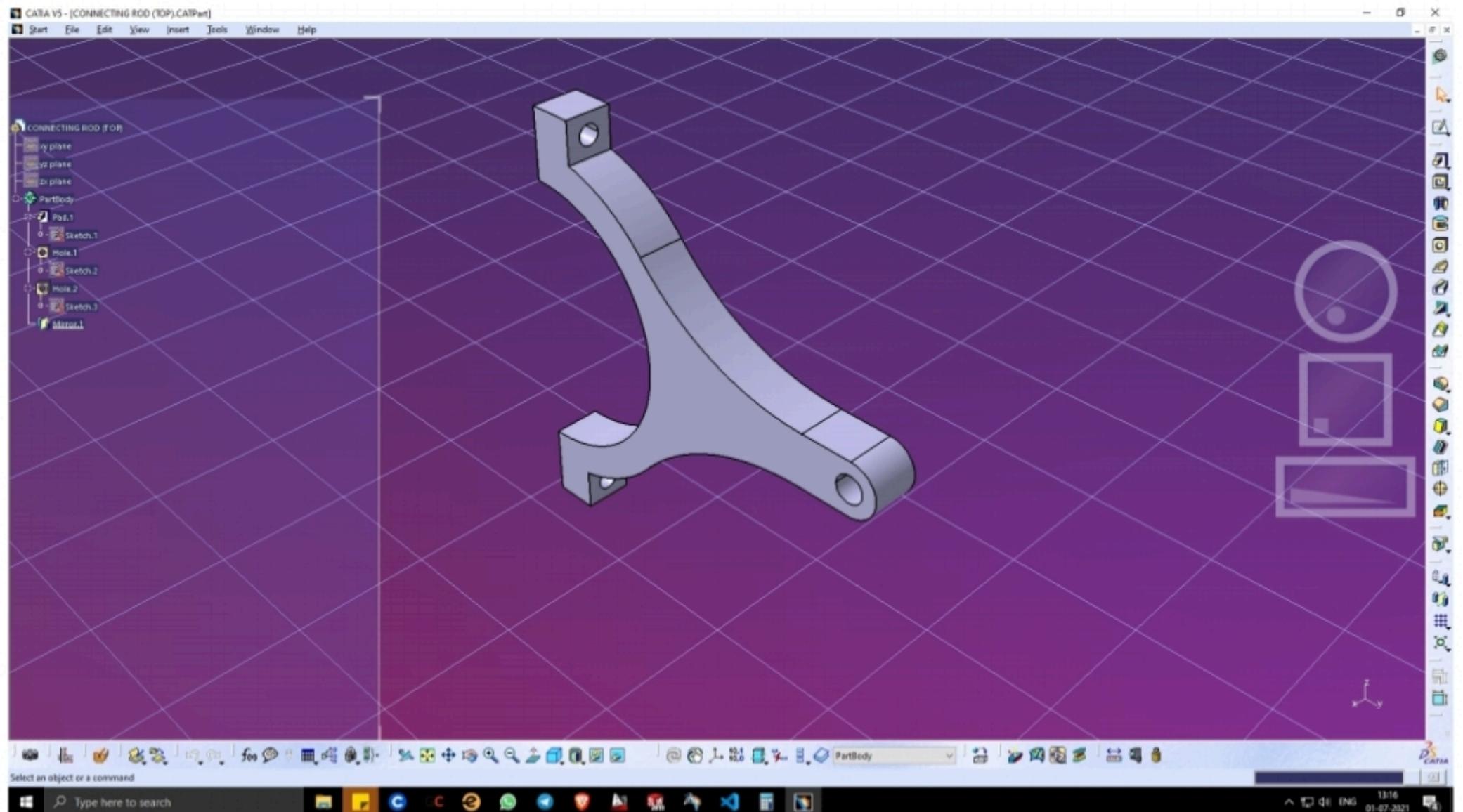
DRAWING NAME : CONNECTING ROD (BOTTOM)

DRAWING NUMBER : MEHPD014



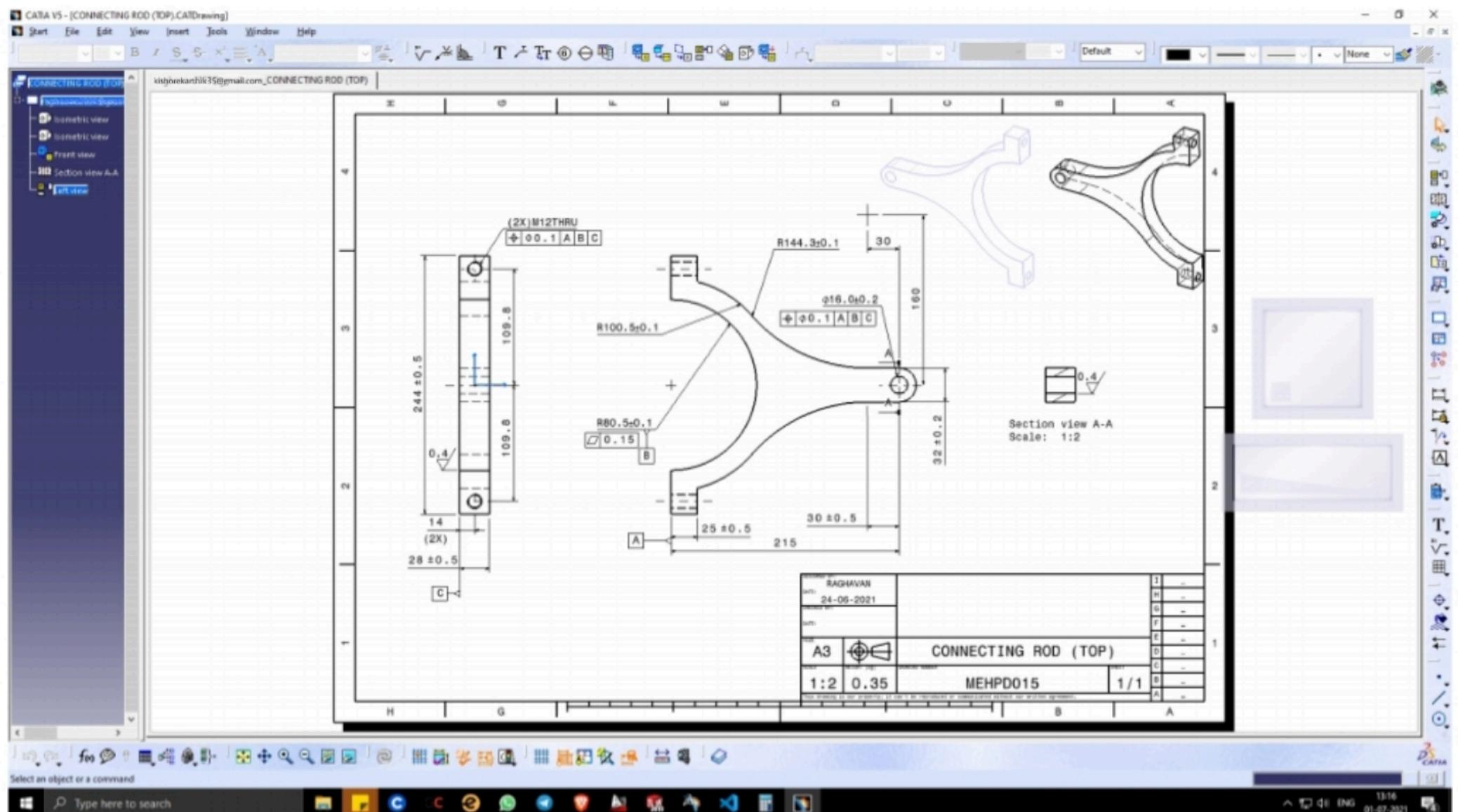
PART NAME : CONNECTING ROD (TOP)

PART NUBER : MEHPP015



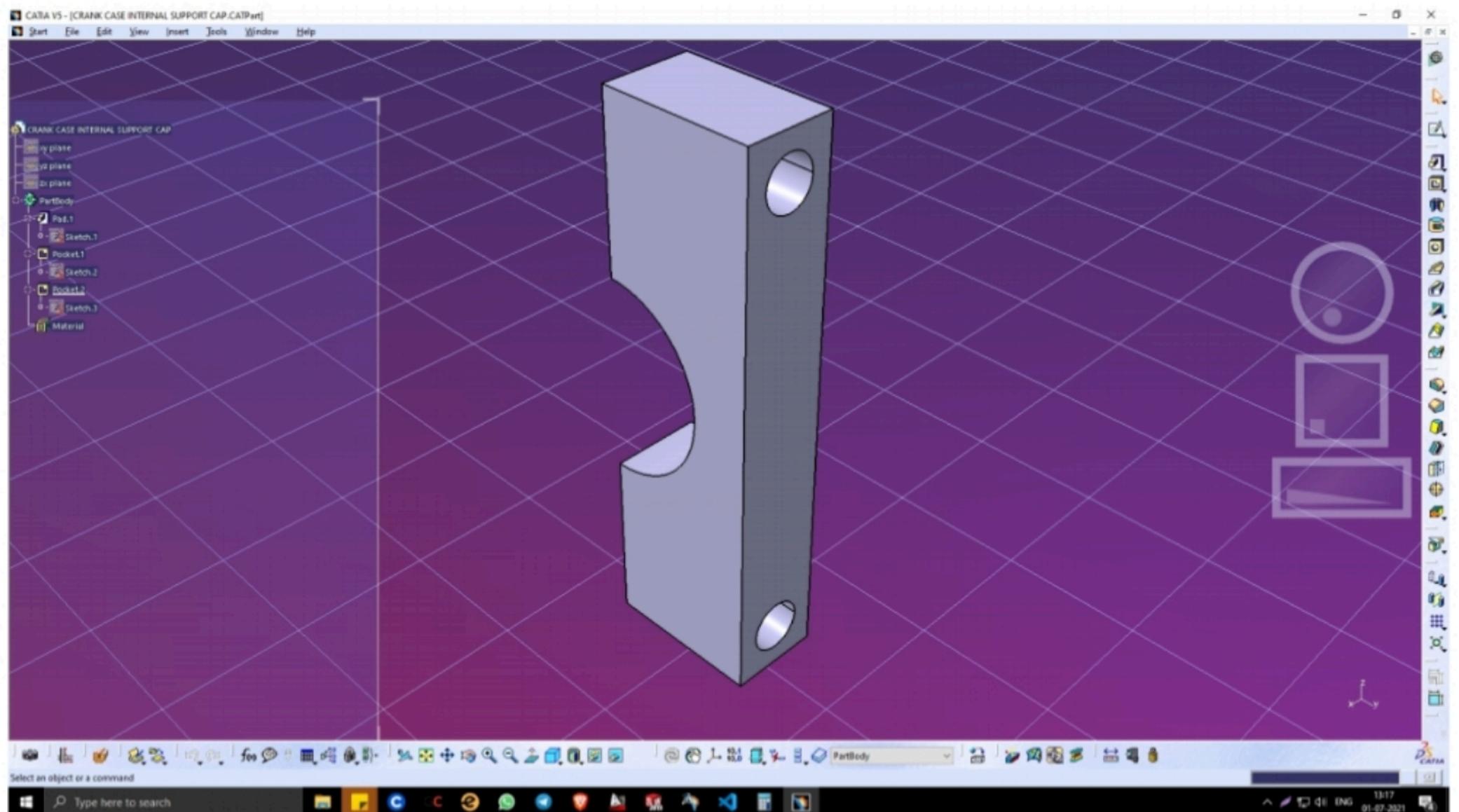
DRAWING NAME : CONNECTING ROD (TOP)

DRAWING NUMBER : MEHPD015



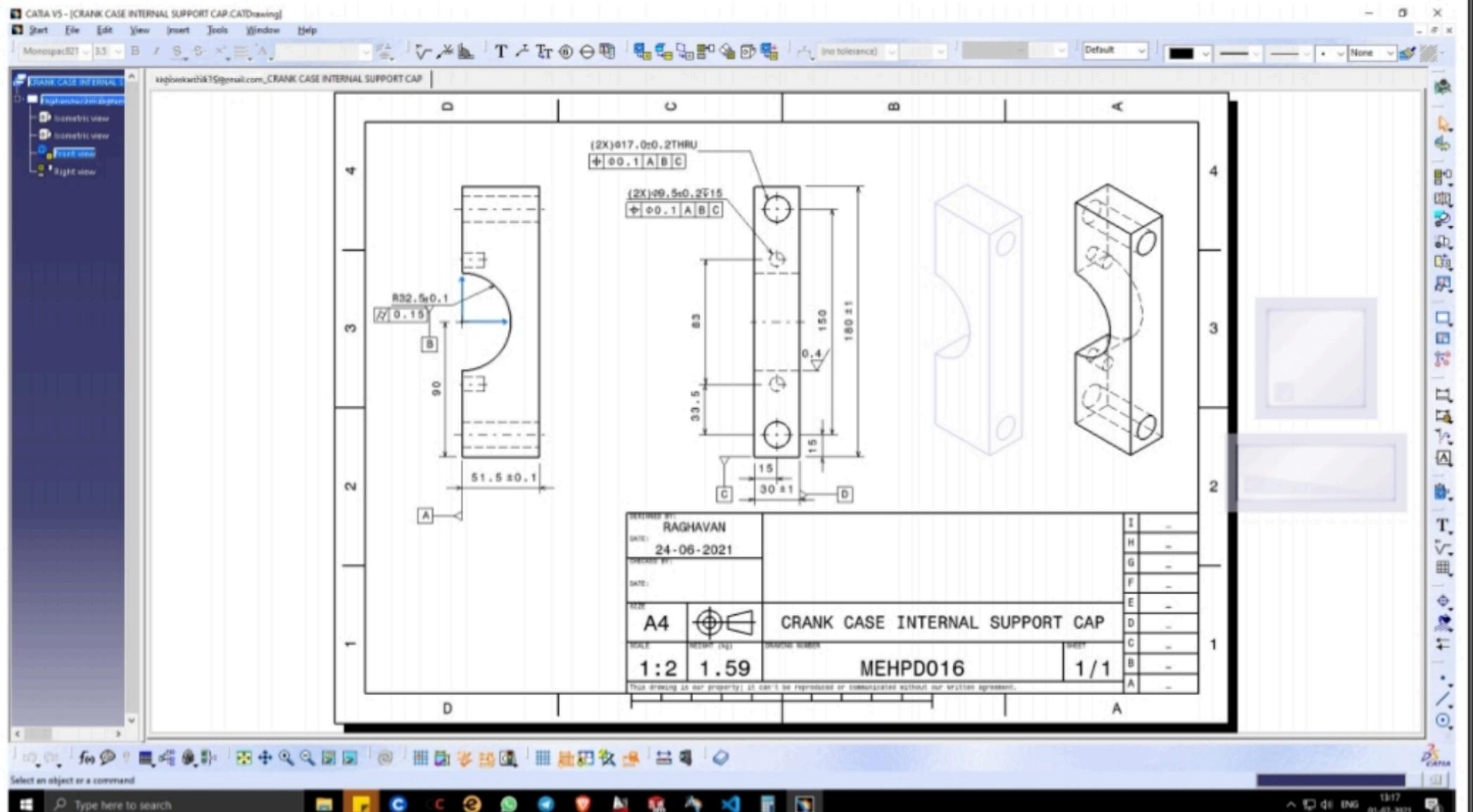
PART NAME : CRANK CASE INTERNAL SUPPORT CAP

PART NUBER : MEHPP016



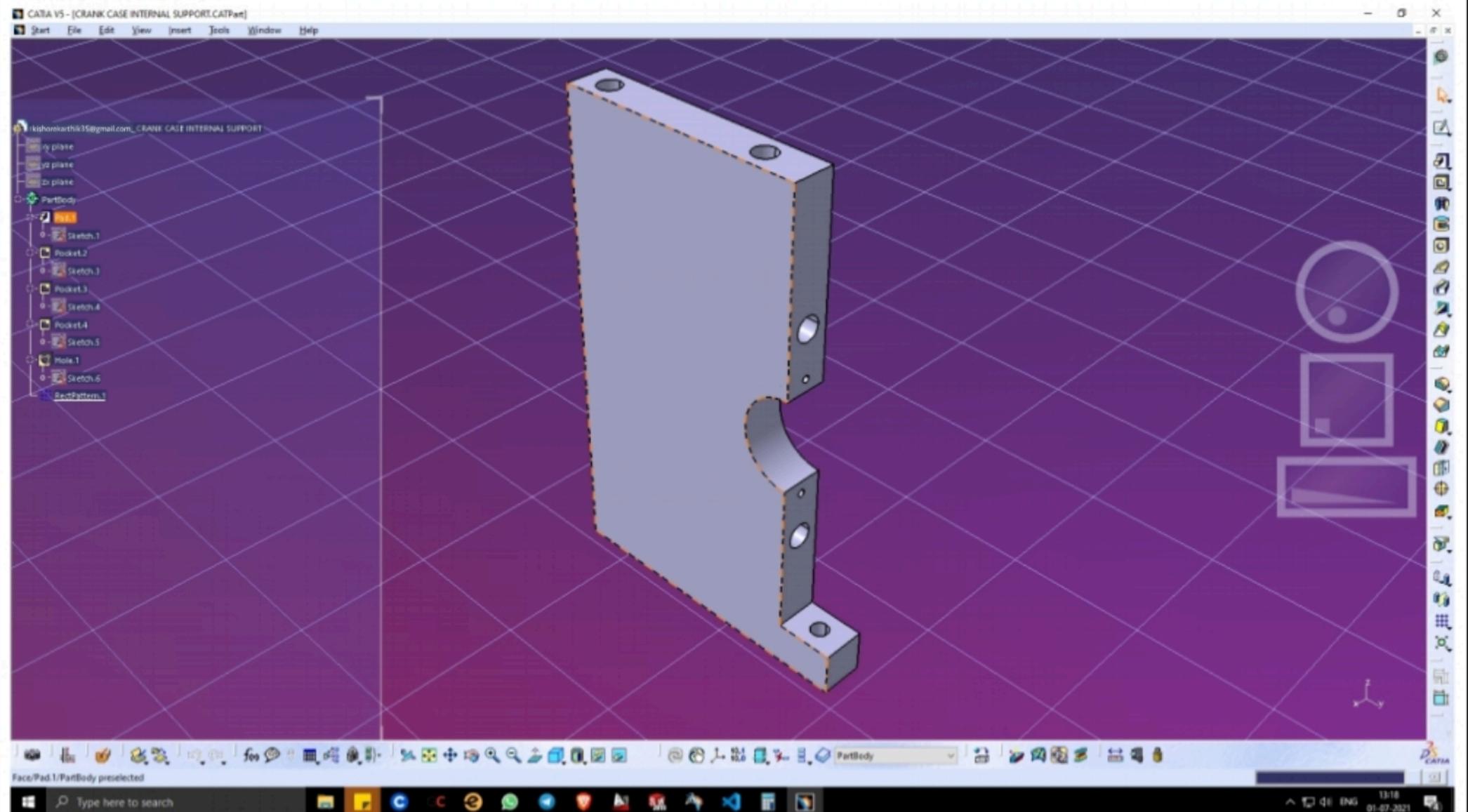
DRAWING NAME : CRANK CASE INTERNAL SUPPORT CAP

DRAWING NUMBER : MEHPD016



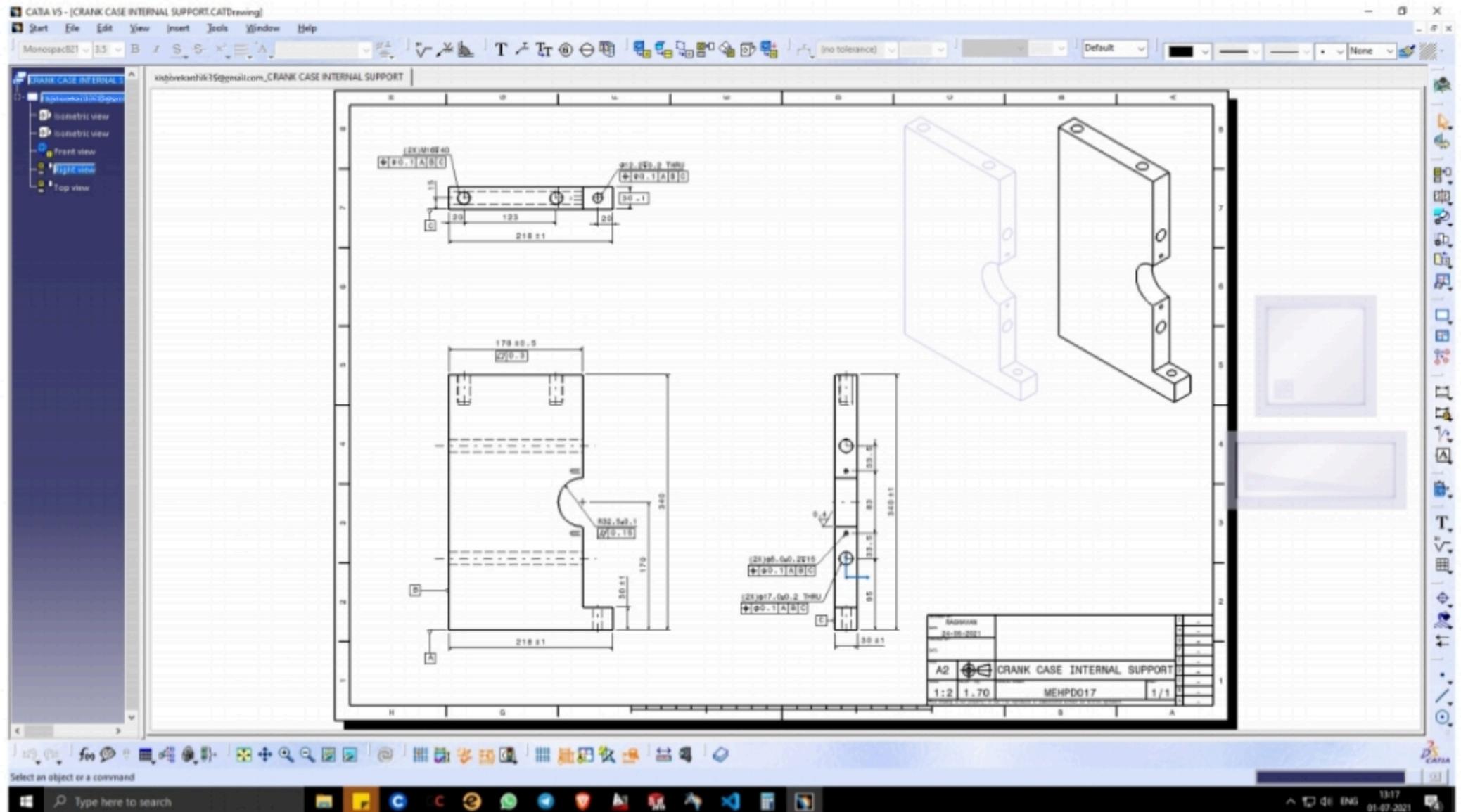
PART NAME : CRANK CASE INTERNAL SUPPORT

PART NUMBER : MEHPP017



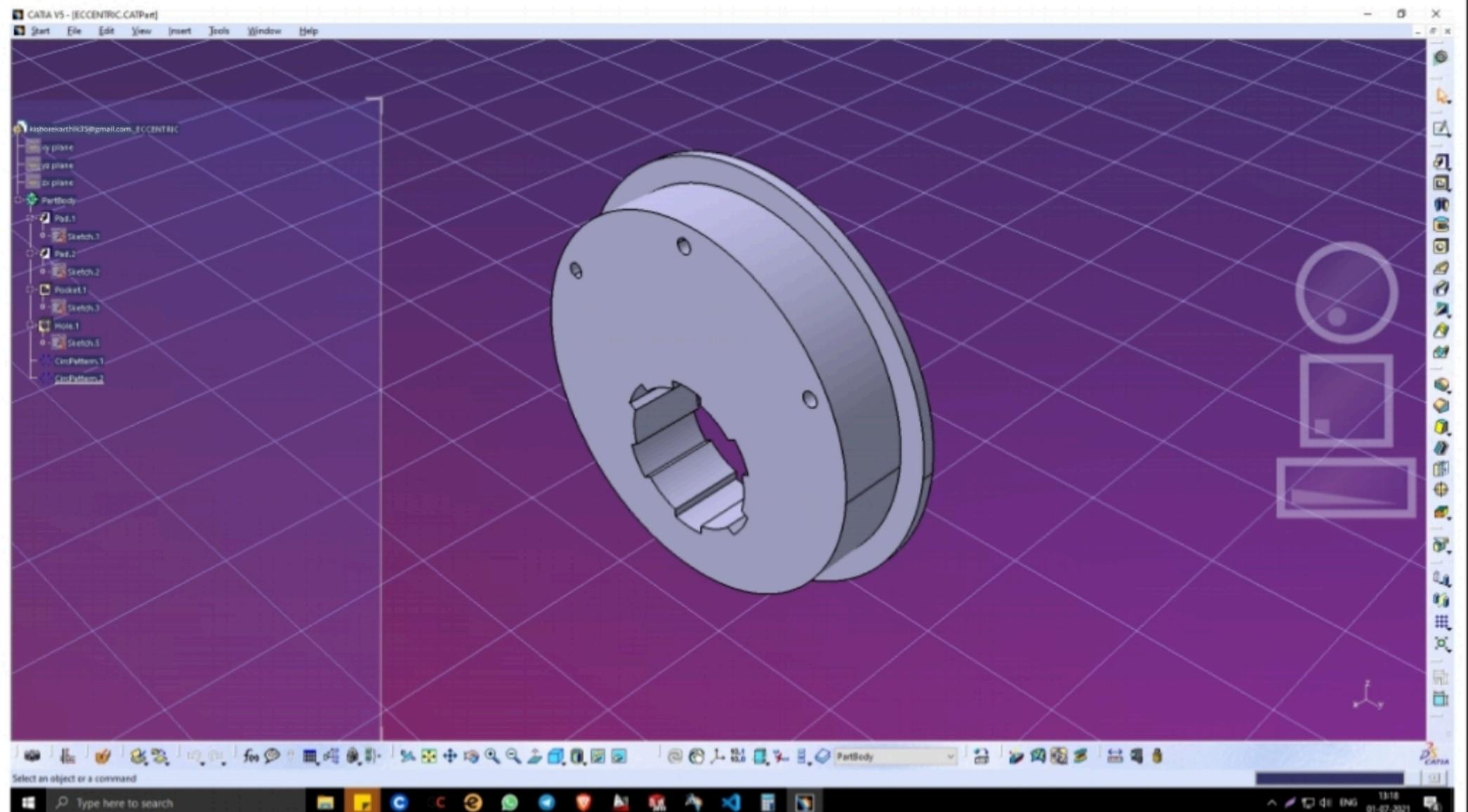
DRAWING NAME : CRANK CASE INTERNAL SUPPORT

DRAWING NUMBER : MEHPD017



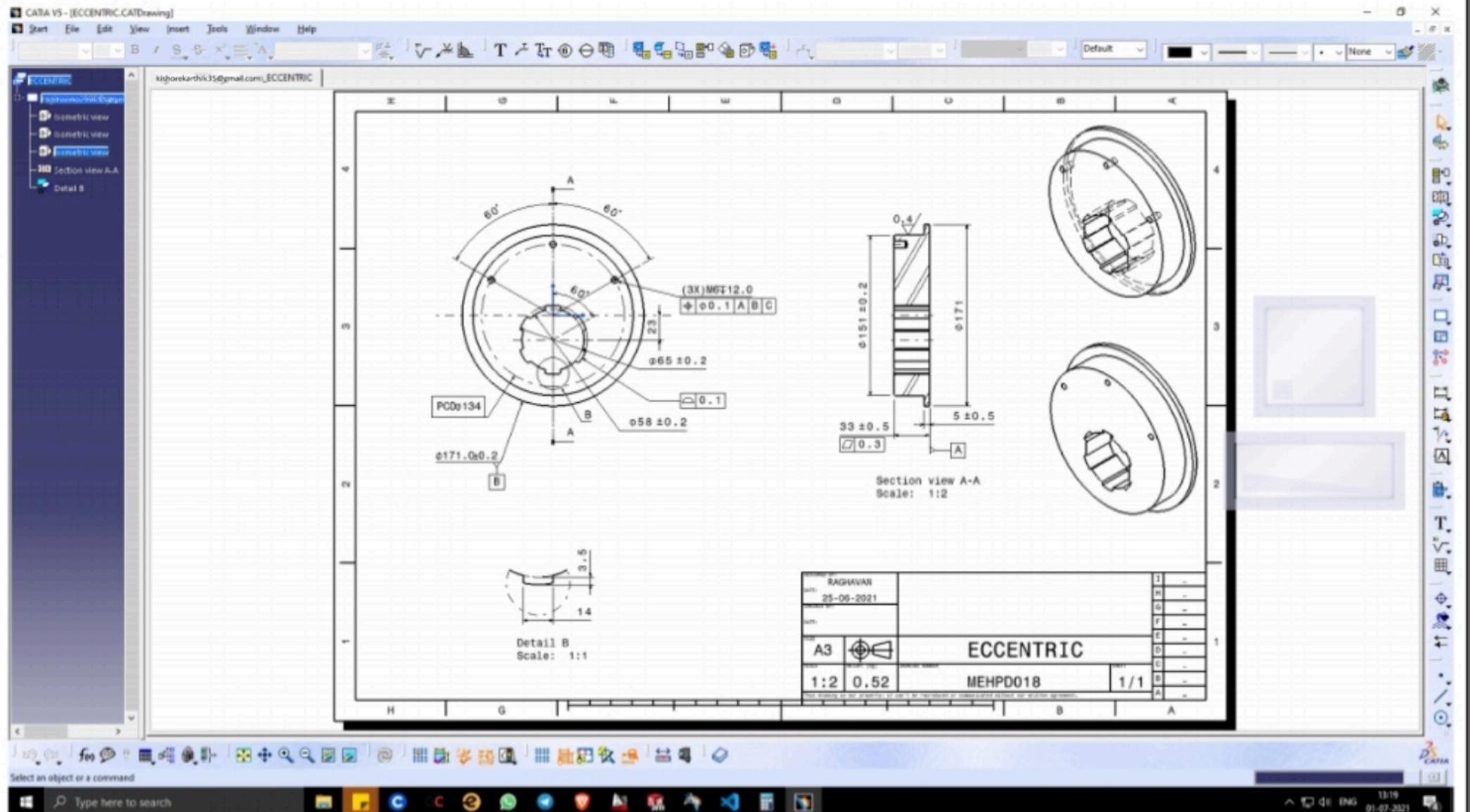
PART NAME : ECCENTRIC

PART NUBER : MEHPP018



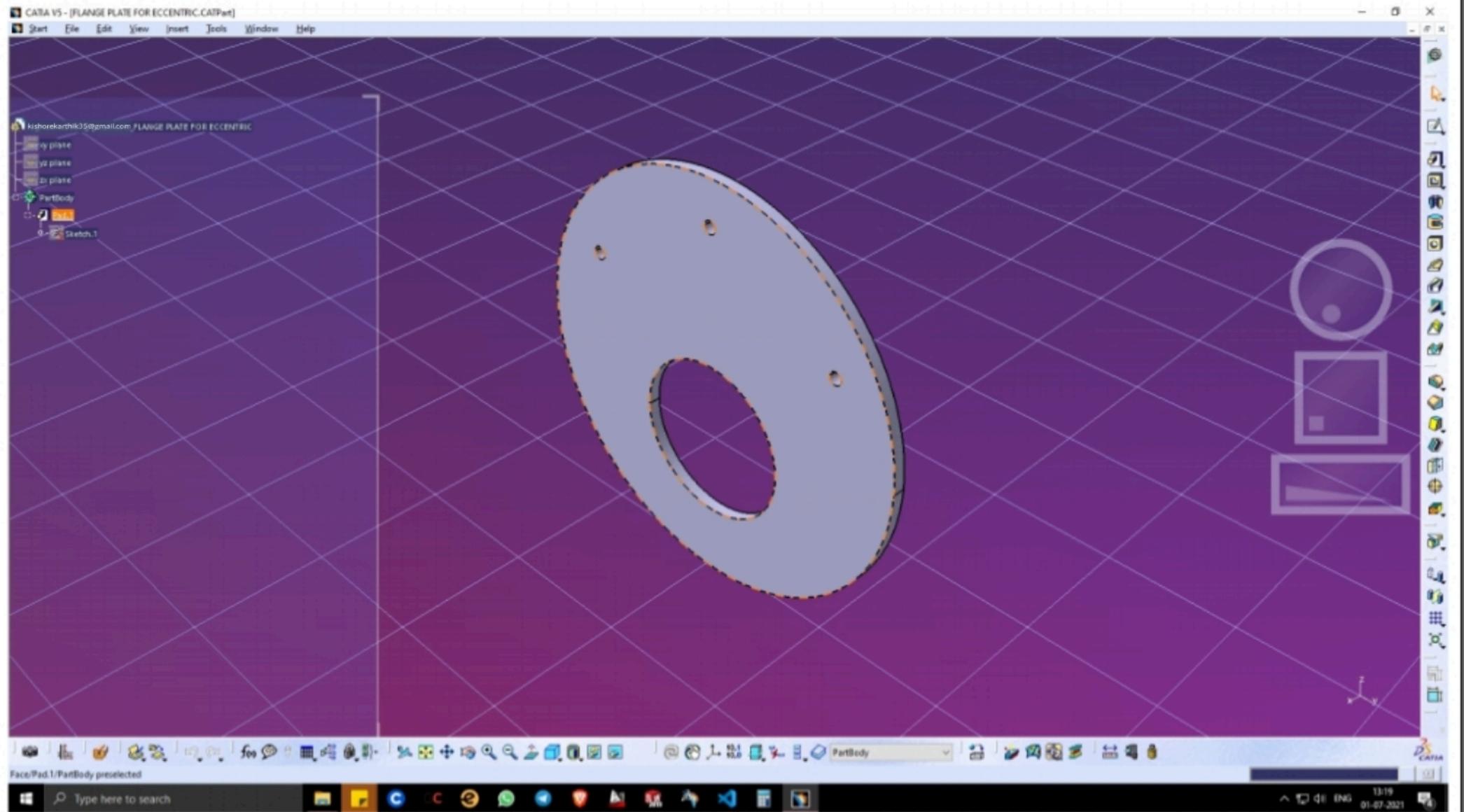
DRAWING NAME : ECCENTRIC

DRAWING NUMBER : MEHPD018



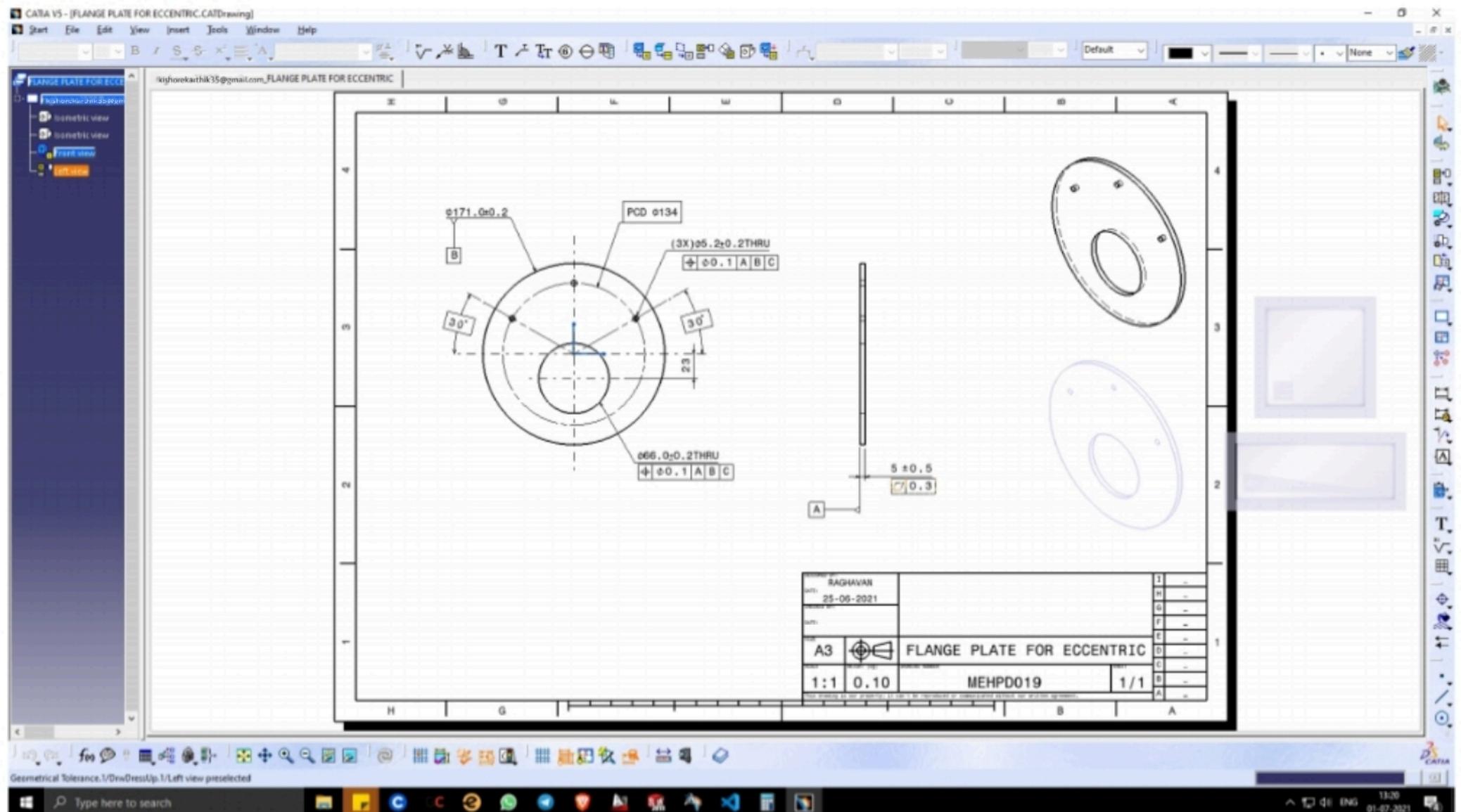
PART NAME : FLANGE PLATE FOR ECCENTRIC

PART NUBER : MEHPP019



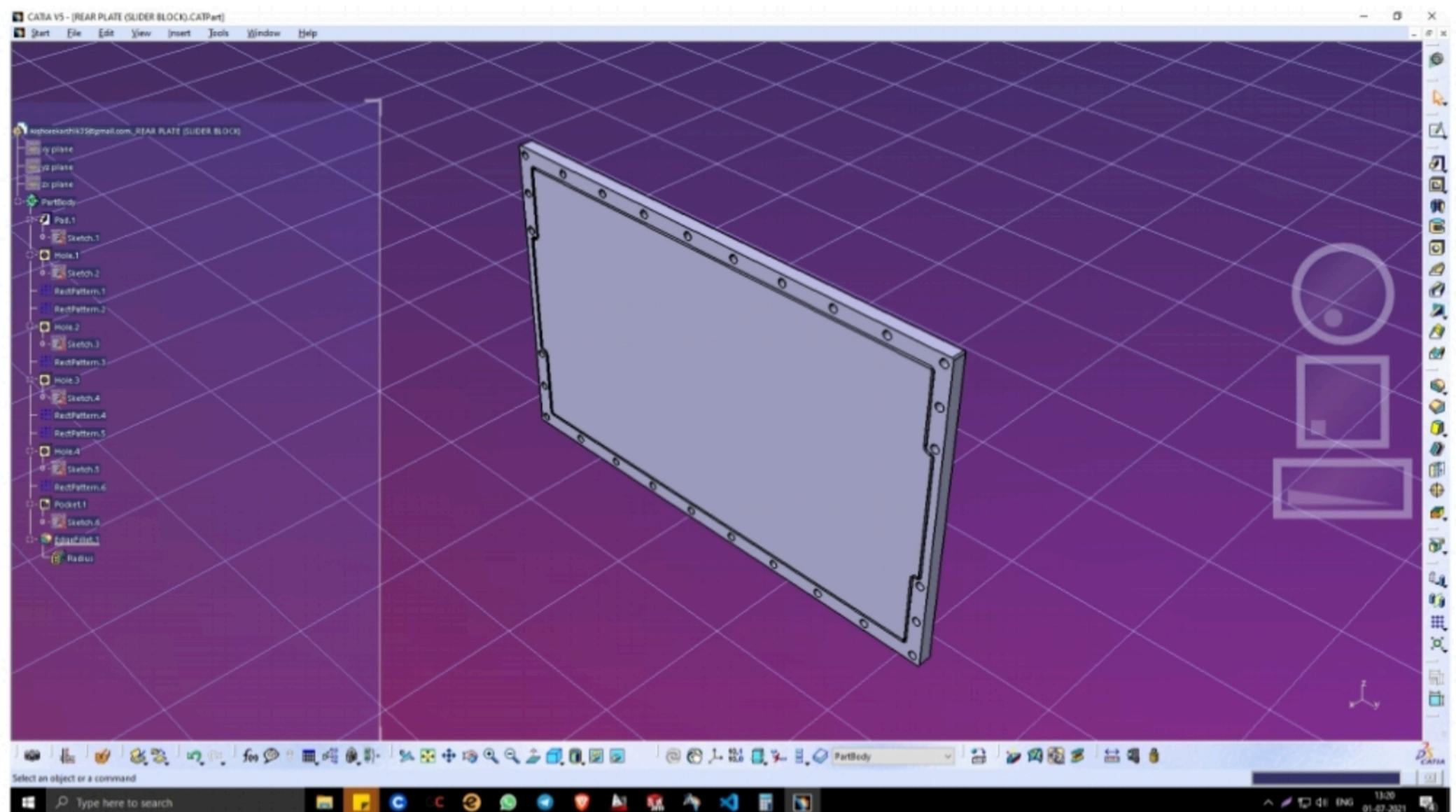
DRAWING NAME : FLANGE PLATE FOR ECCENTRIC

DRAWING NUMBER : MEHPD019



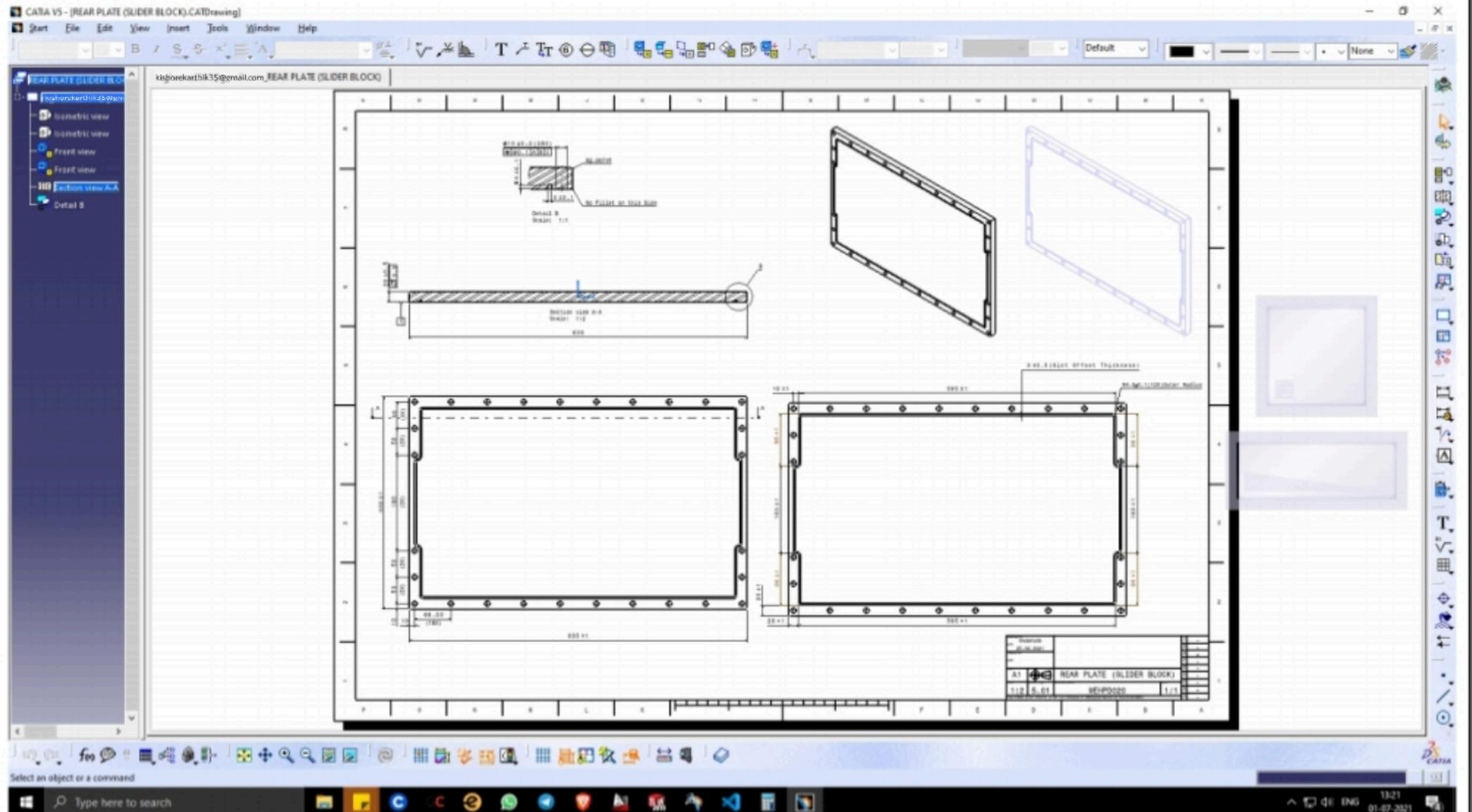
PART NAME : REAR PLATE (SLIDER BLOCK)

PART NUBER : MEHPP020



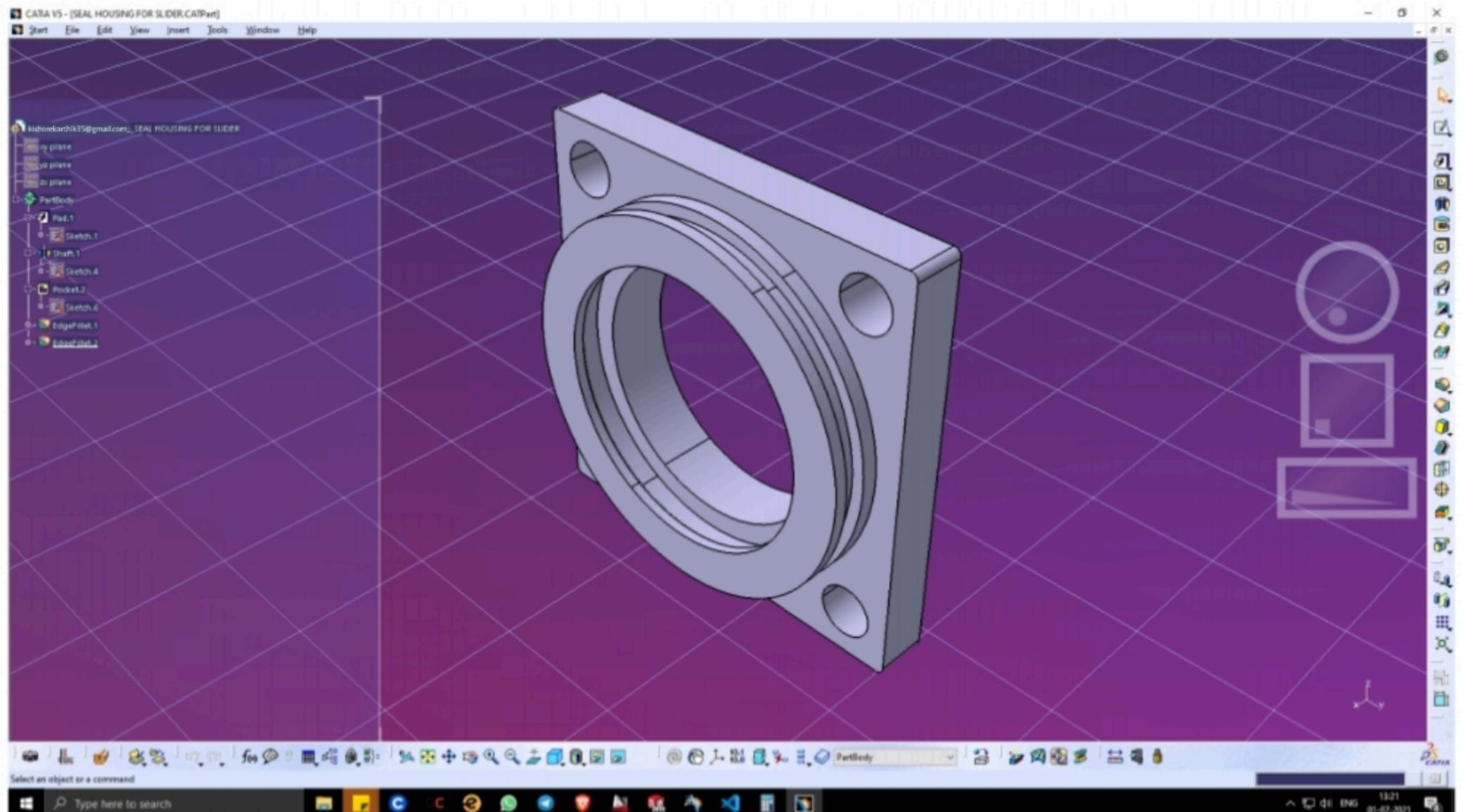
DRAWING NAME : REAR PLATE (SLIDER BLOCK)

DRAWING NUMBER : MEHPD020



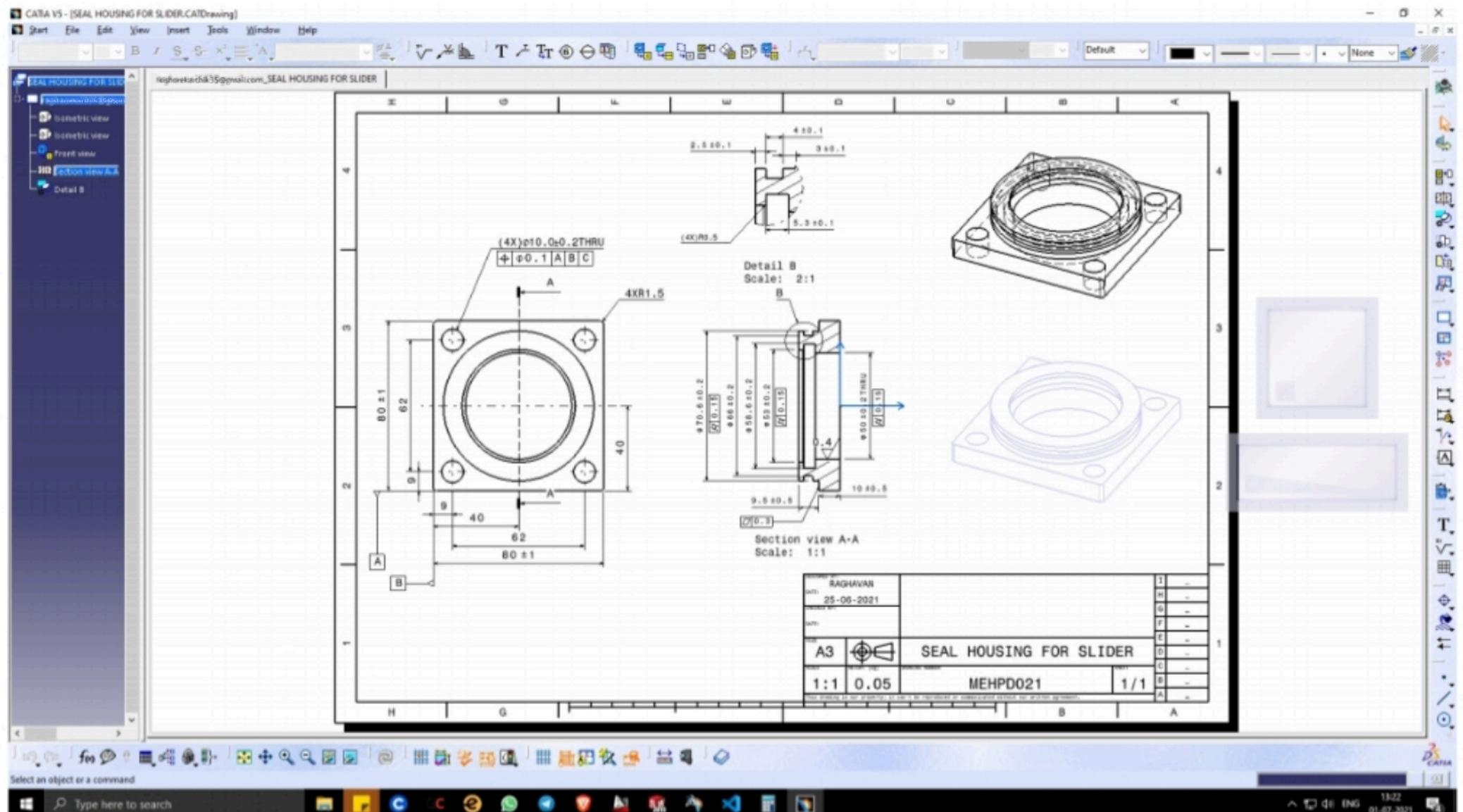
PART NAME : SEAL HOUSING FOR SLIDER

PART NUBER : MEHPP021



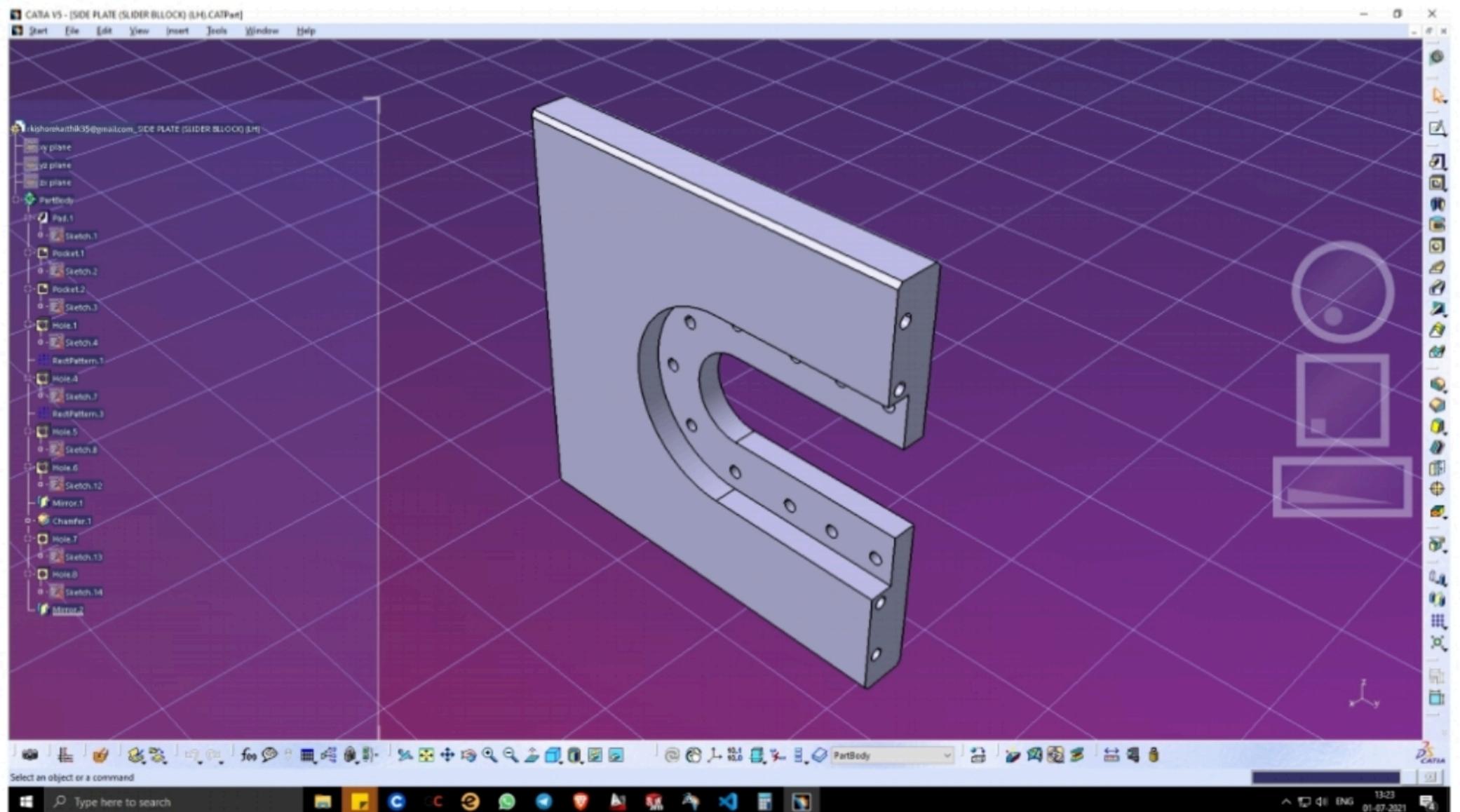
DRAWING NAME : SEAL HOUSING FOR SLIDER

DRAWING NUMBER : MEHPD021



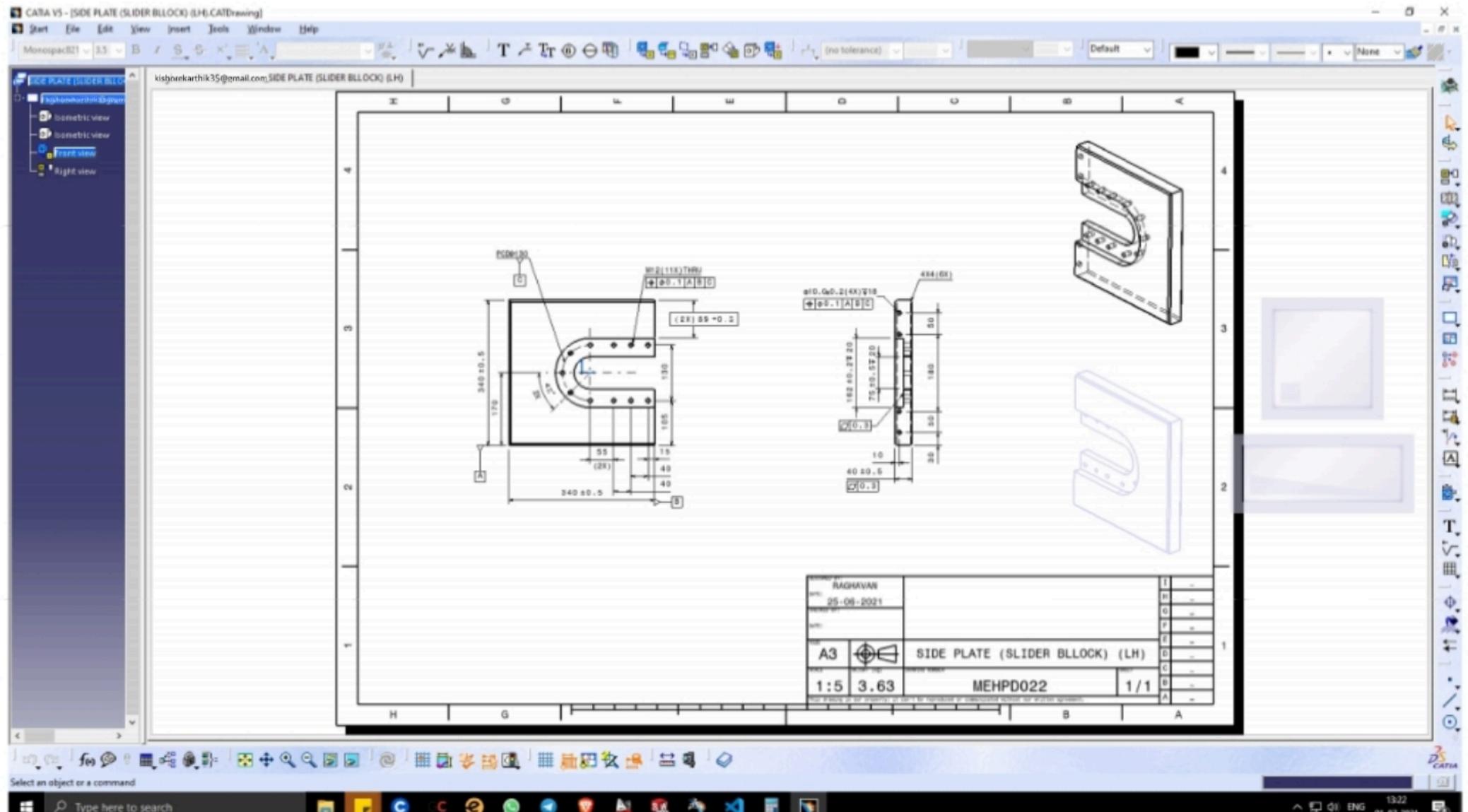
PART NAME : SIDE PLATE (SLIDER BLOCK) (LH)

PART NUBER : MEHPP022



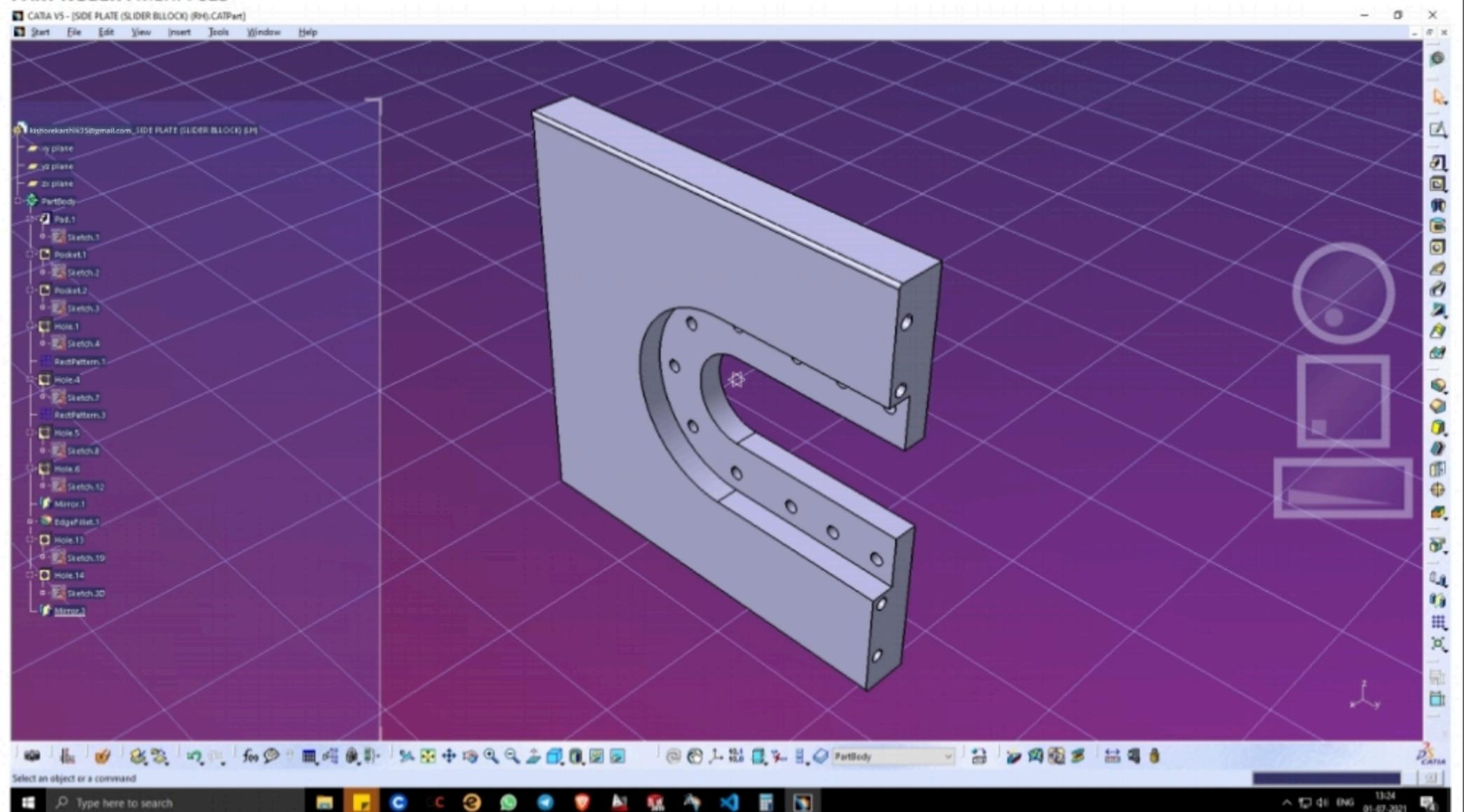
DRAWING NAME : SIDE PLATE (SLIDER BLOCK) (LH)

DRAWING NUMBER : MEHPD022



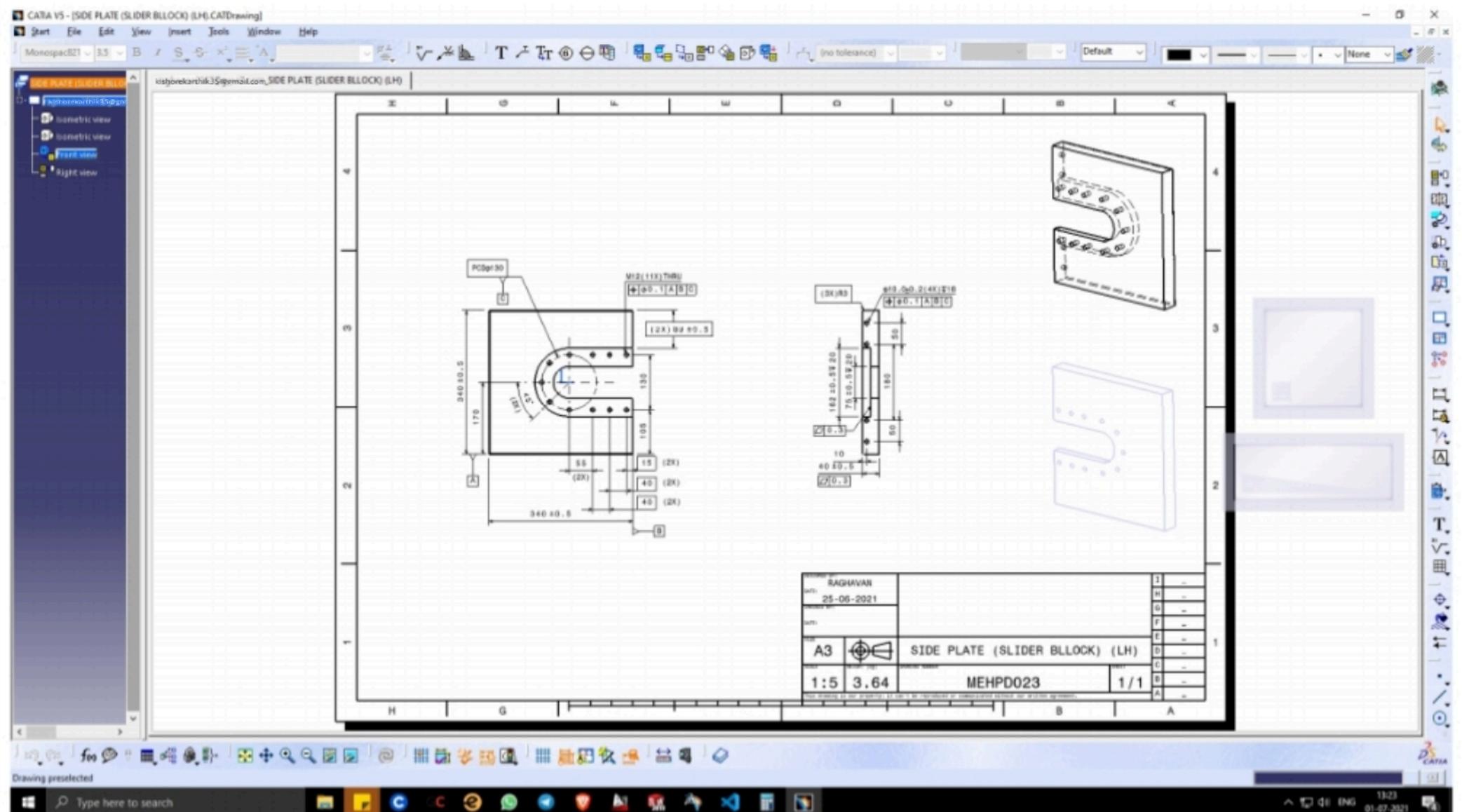
PART NAME : SIDE PLATE (SLIDER BLOCK) (RH)

PART NUBER : MEHPP023



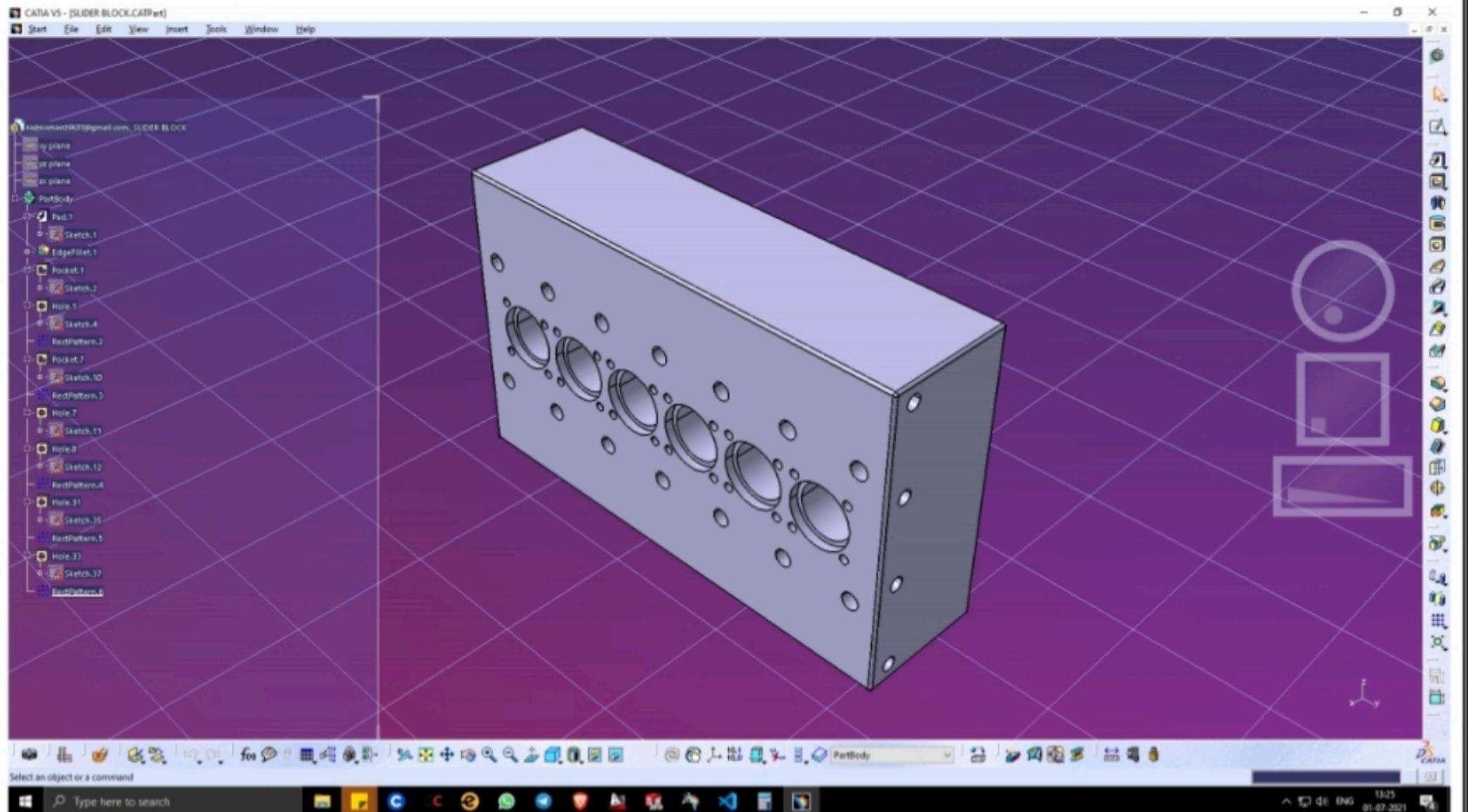
DRAWING NAME : SIDE PLATE (SLIDER BLOCK) (RH)

DRAWING NUMBER : MEHPD023



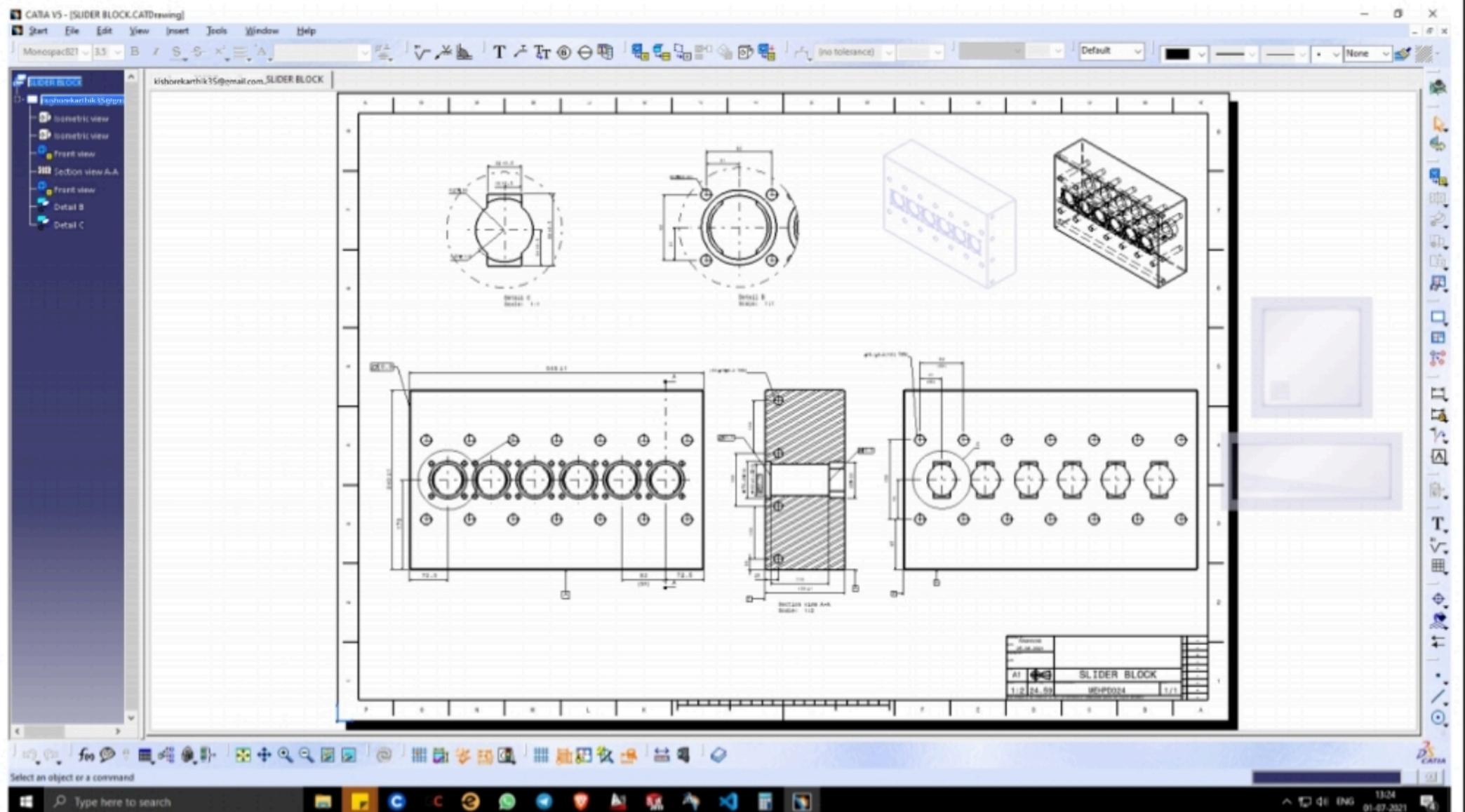
PART NAME : SLIDER BLOCK

PART NUBER : MEHPP024



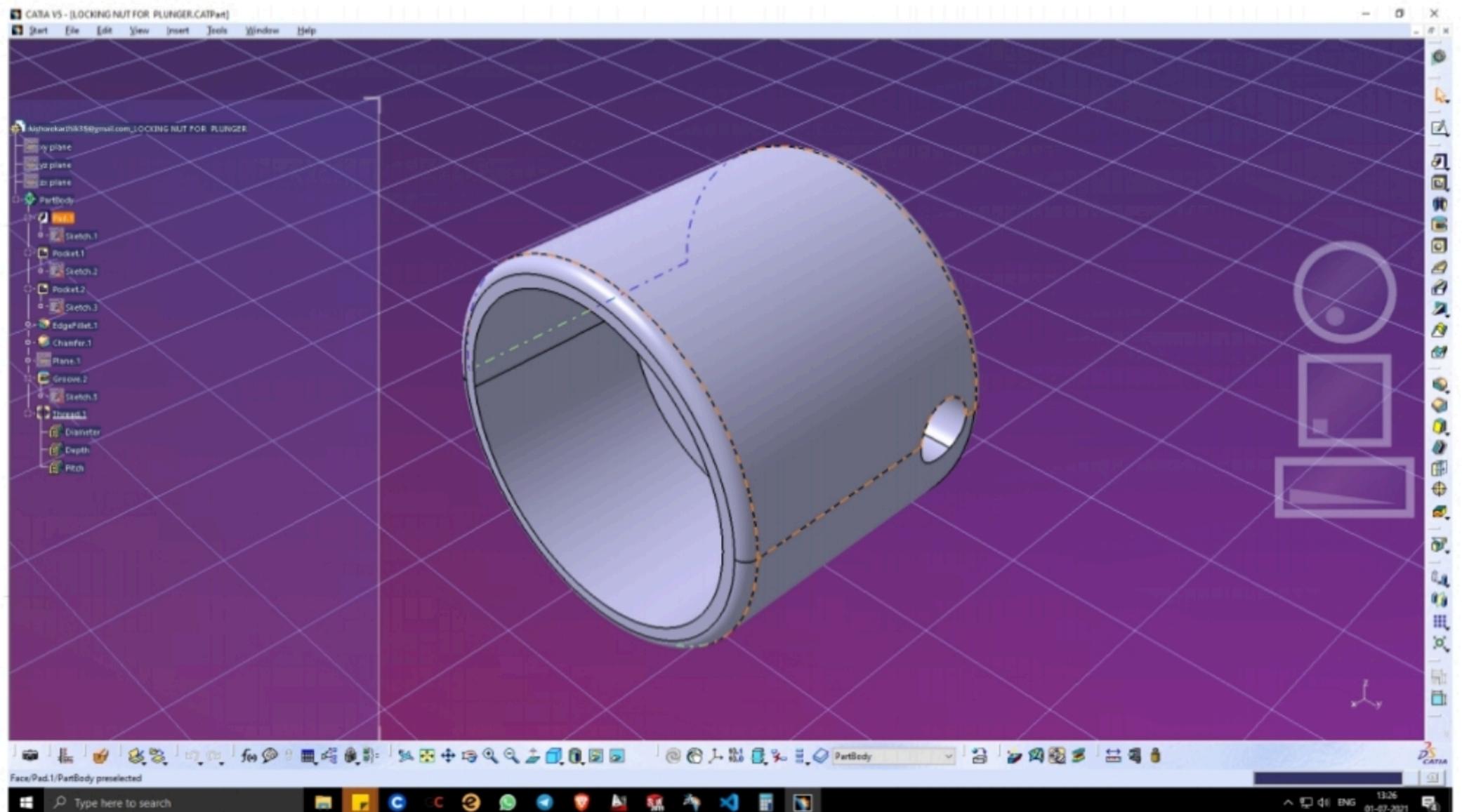
DRAWING NAME : SLIDER BLOCK

DRAWING NUMBER : MEHPD024



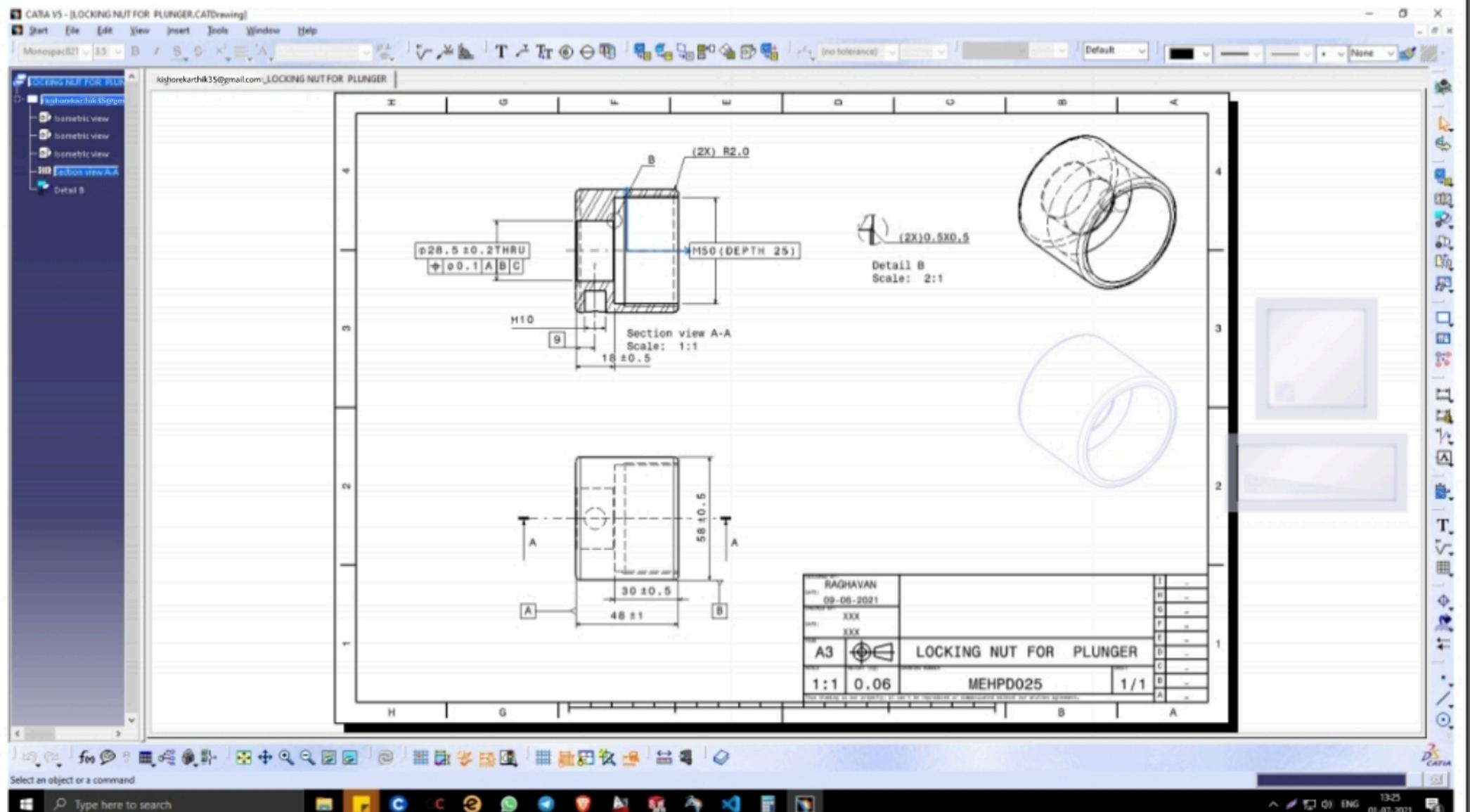
PART NAME : LOCKING NUT FOR PLUNGER

PART NUMBER : MEHPP025



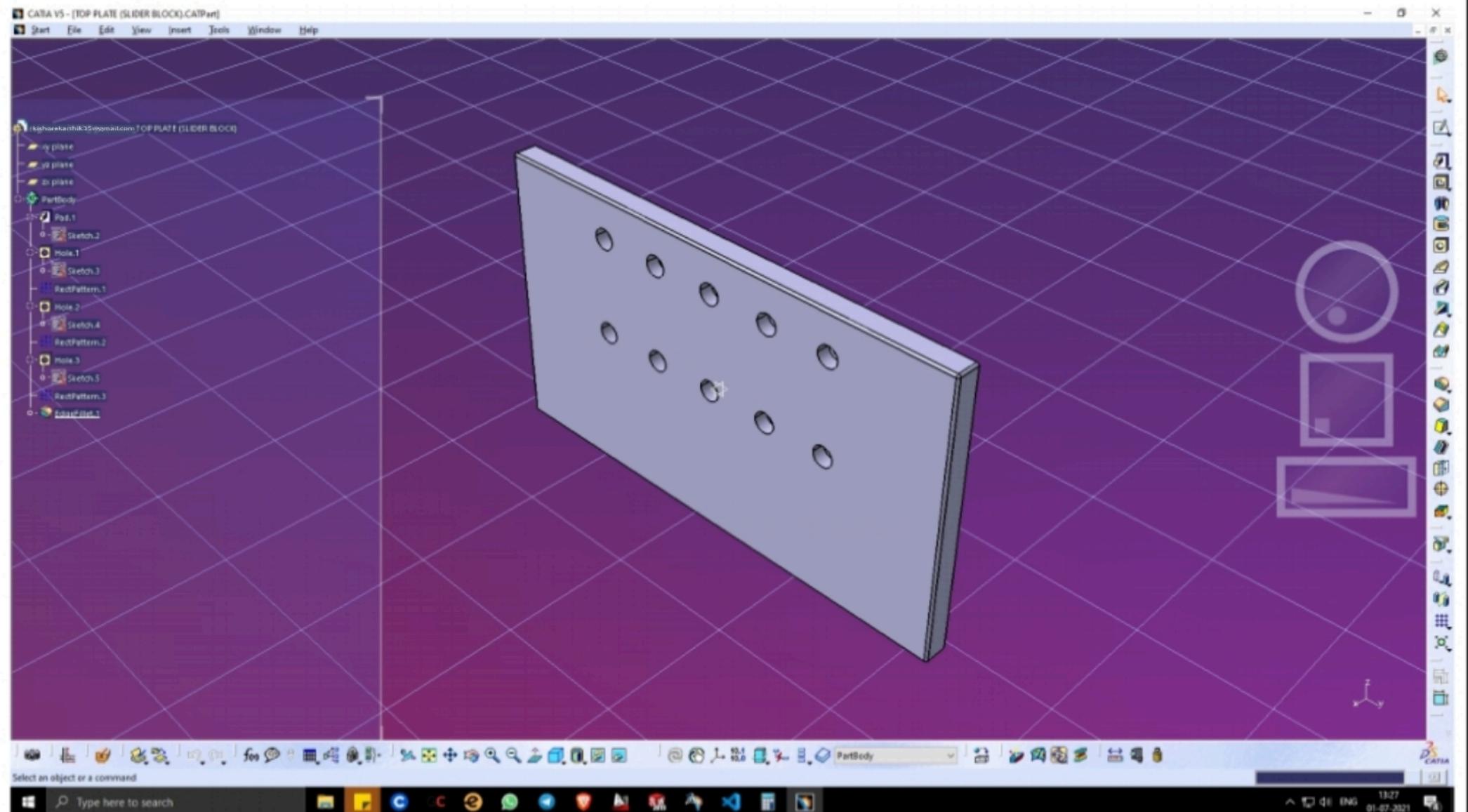
DRAWING NAME : LOCKING NUT FOR PLUNGER

DRAWING NUMBER : MEHPD025



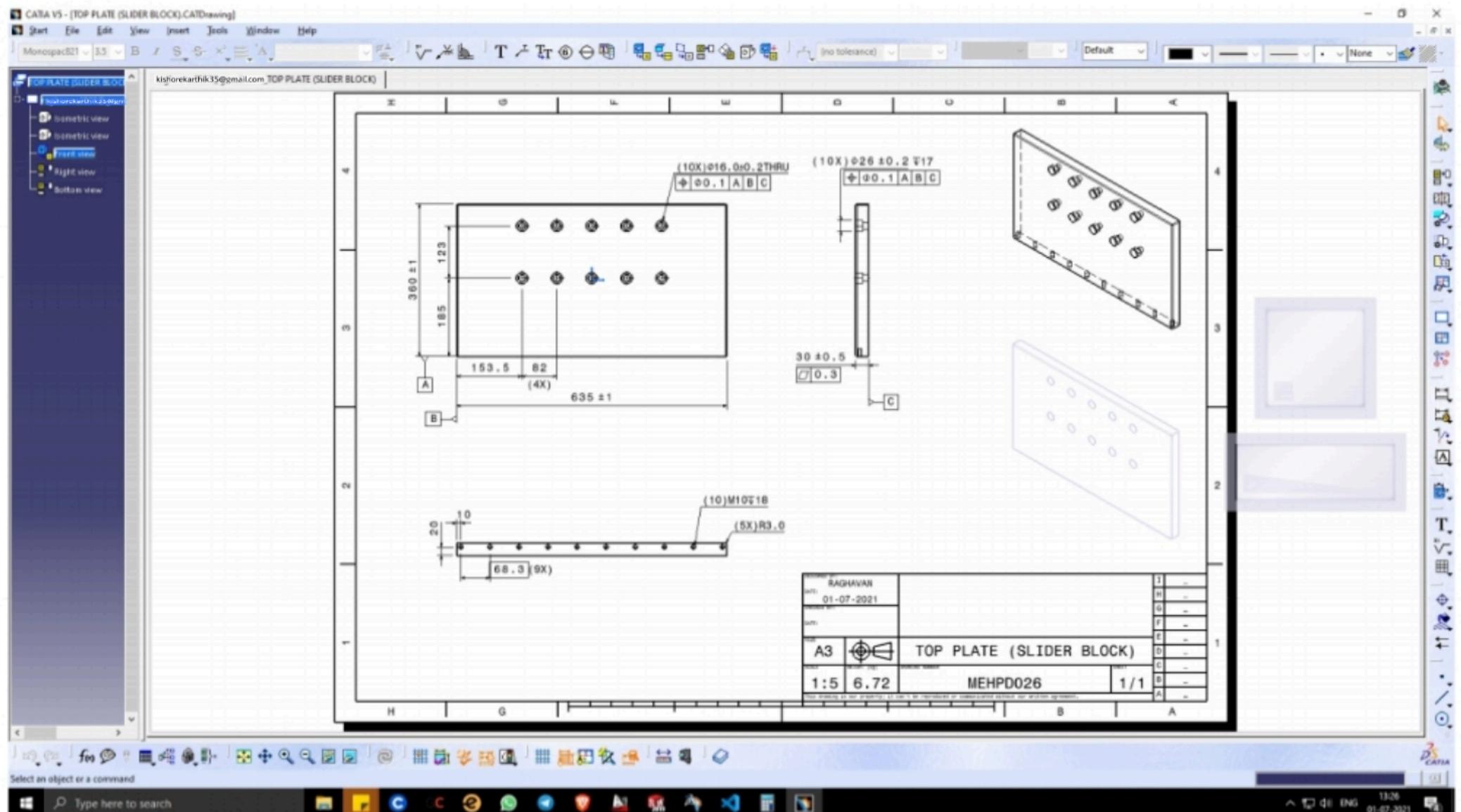
PART NAME : TOP PLATE (SLIDER BLOCK)

PART NUBER : MEHPP026



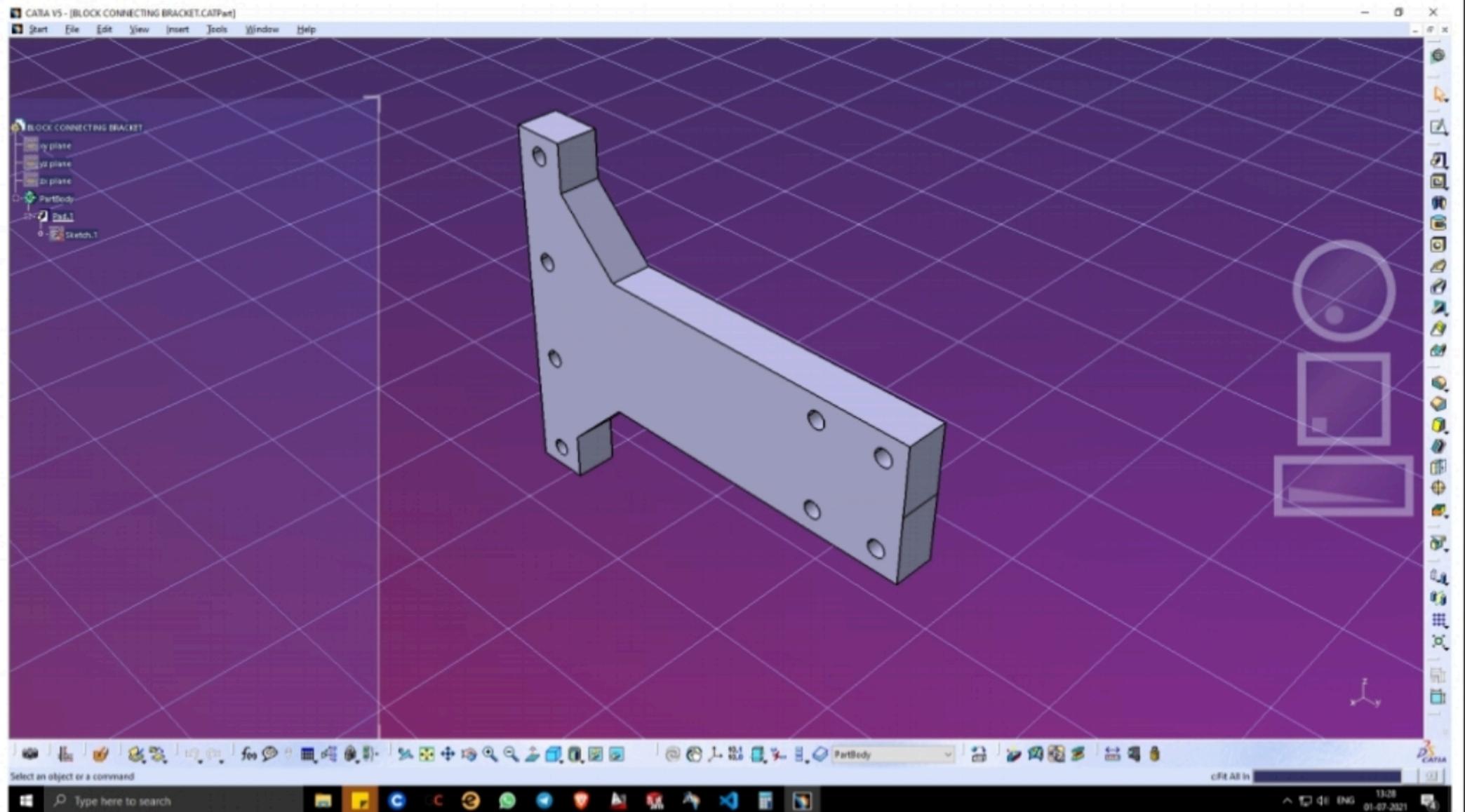
DRAWING NAME : TOP PLATE (SLIDER BLOCK)

DRAWING NUMBER : MEHPD026



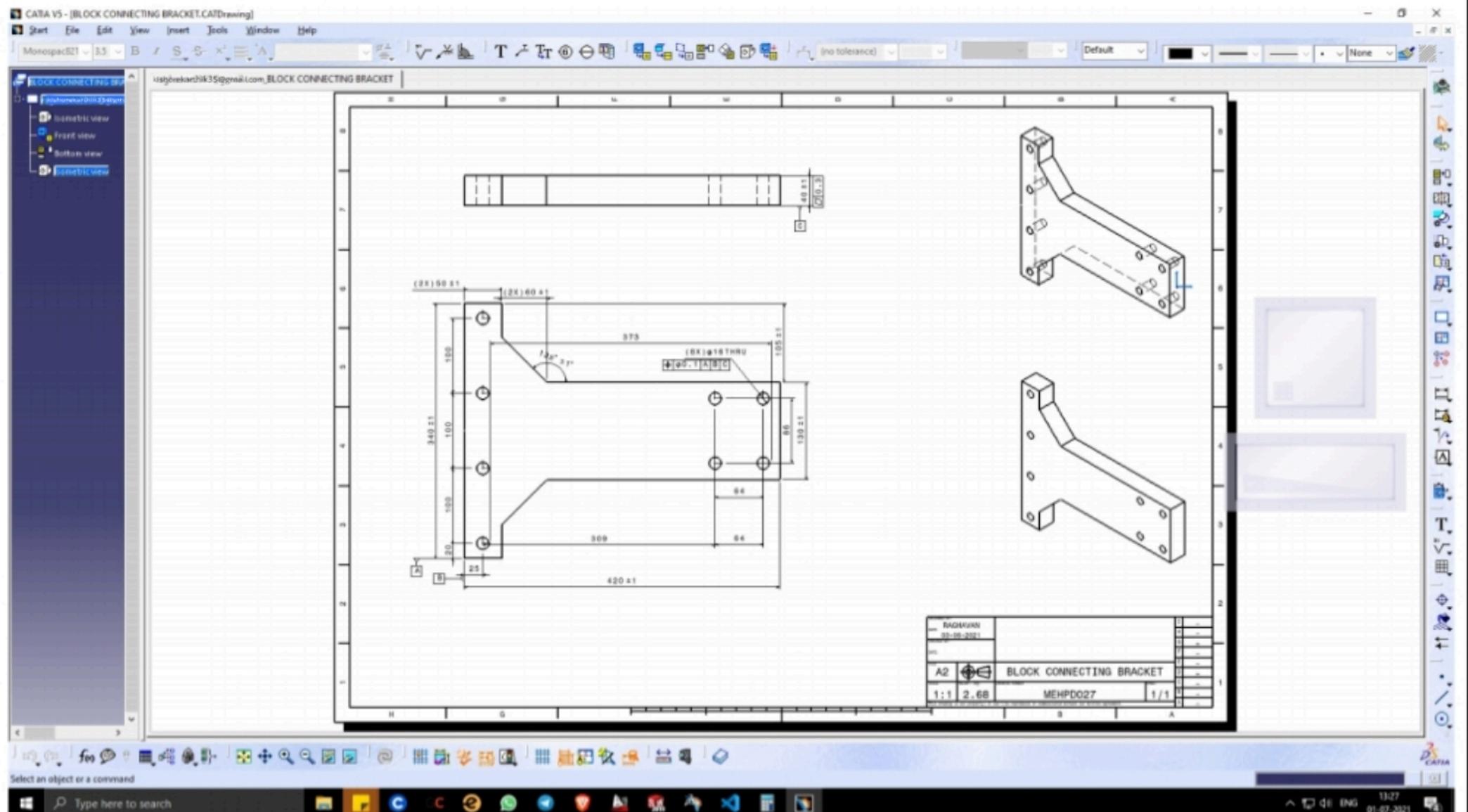
PART NAME : BLOCK CONNECTING BRACKET

PART NUBER : MEHPP027



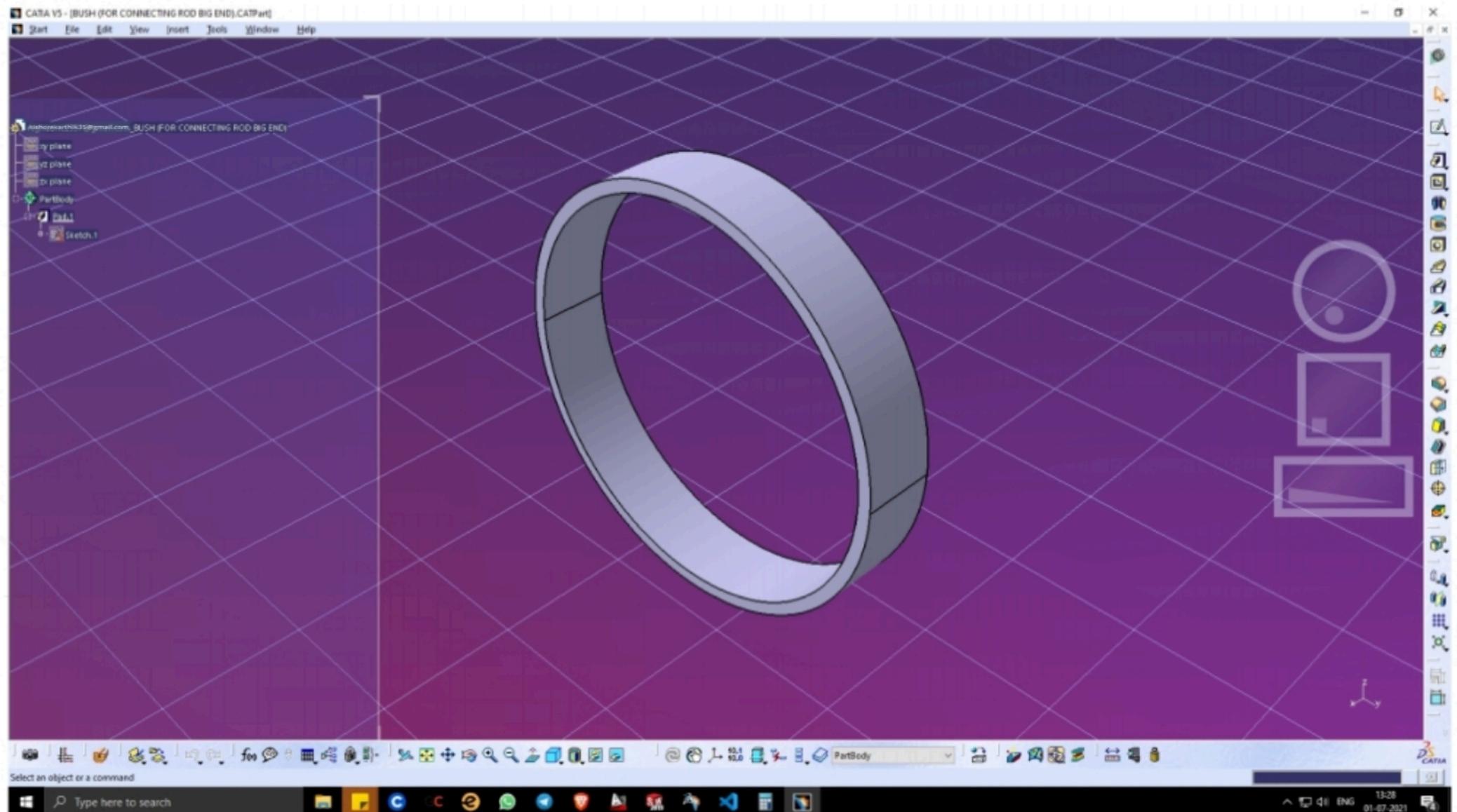
DRAWING NAME : BLOCK CONNECTING BRACKET

DRAWING NUMBER : MEHPD027



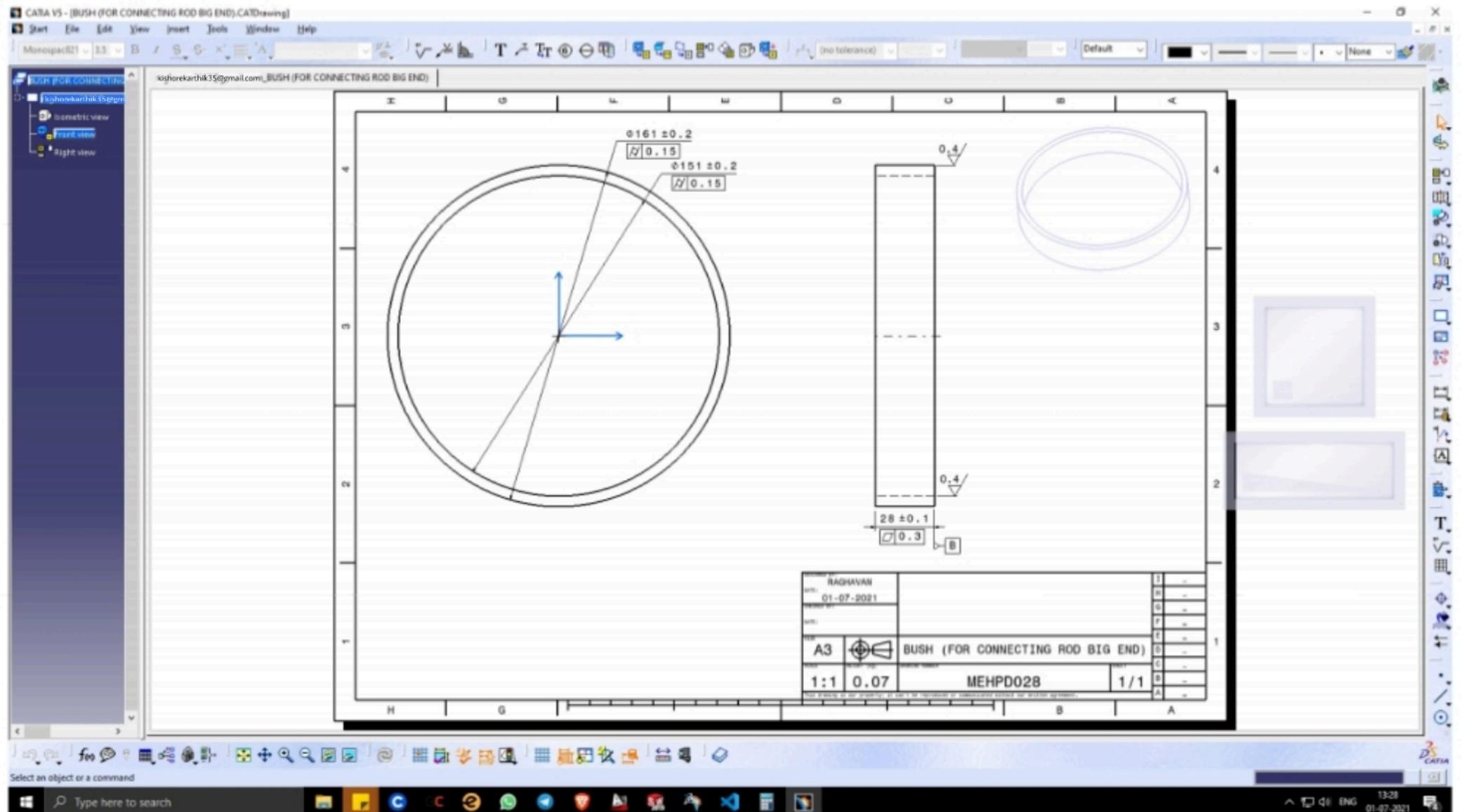
PART NAME : BUSH (FOR CONNECTING ROD BIG END)

PART NUBER : MEHPP028



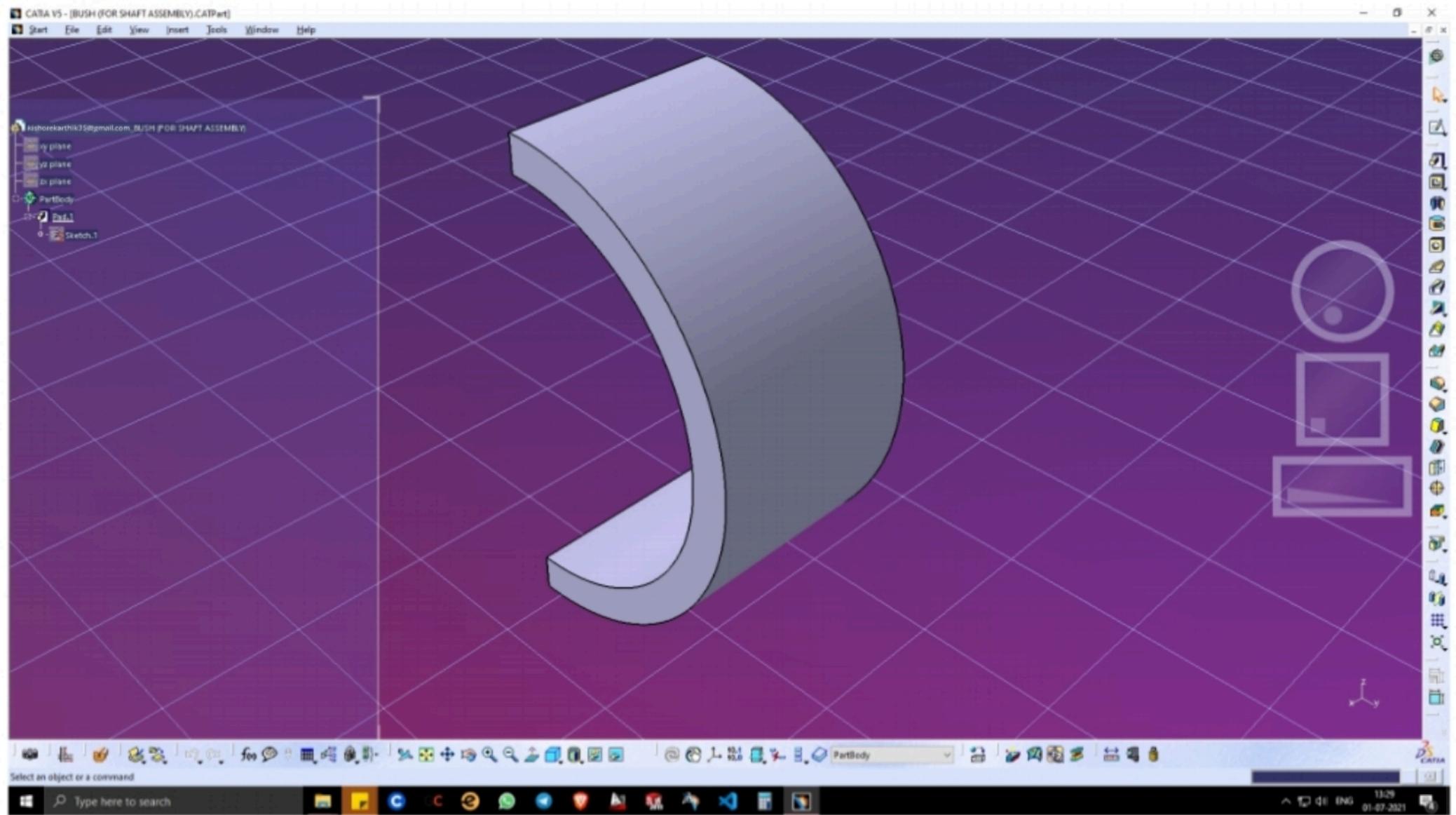
DRAWING NAME : BUSH (FOR CONNECTING ROD BIG END)

DRAWING NUMBER : MEHPD028



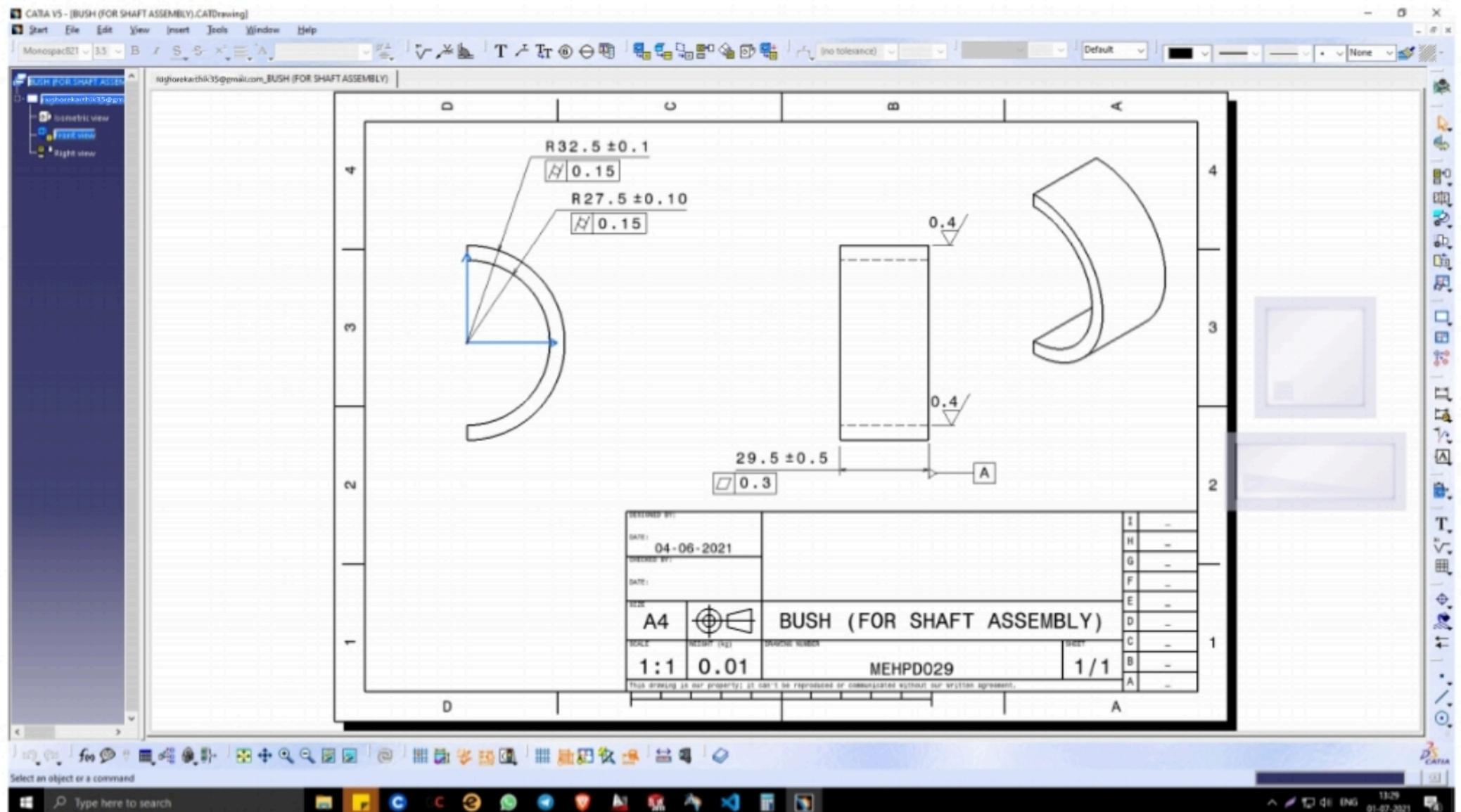
PART NAME : BUSH (FOR CRANK SHAFT ASSEMBLY)

PART NUBER : MEHPP029



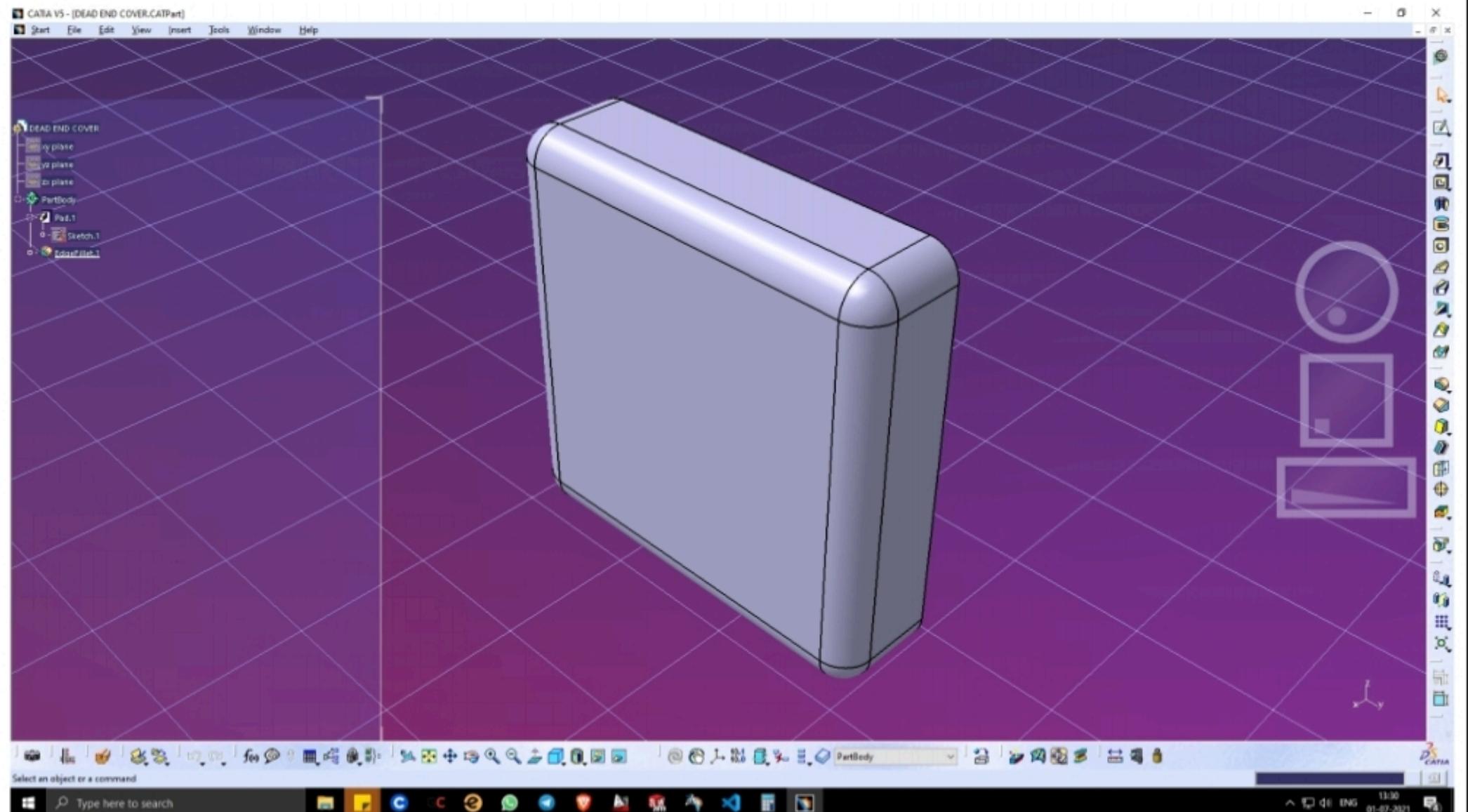
DRAWING NAME : BUSH (FOR CRANK SHAFT ASSEMBLY)

DRAWING NUMBER : MEHPD029



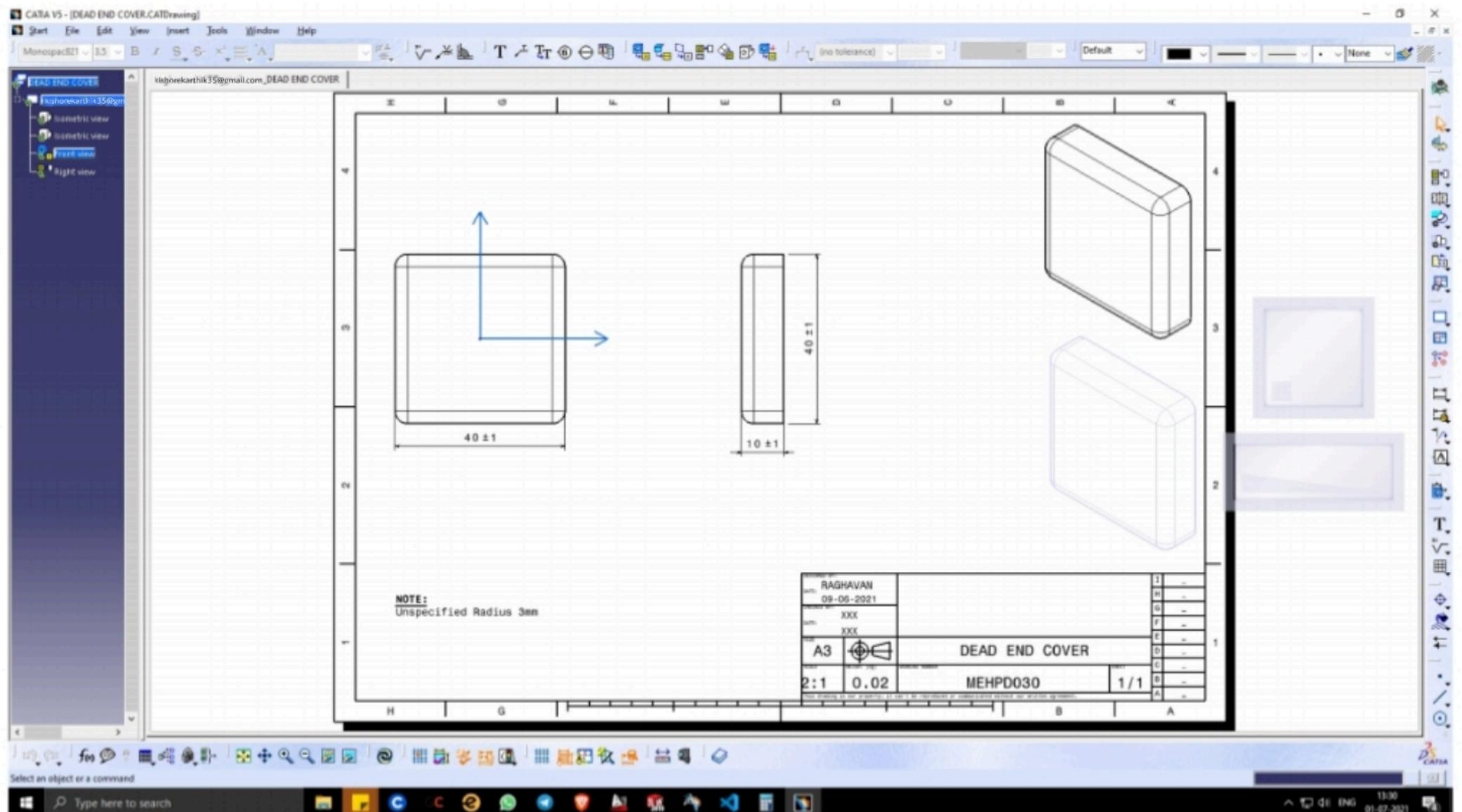
PART NAME : DEAD END COVER

PART NUBER : MEHPP030



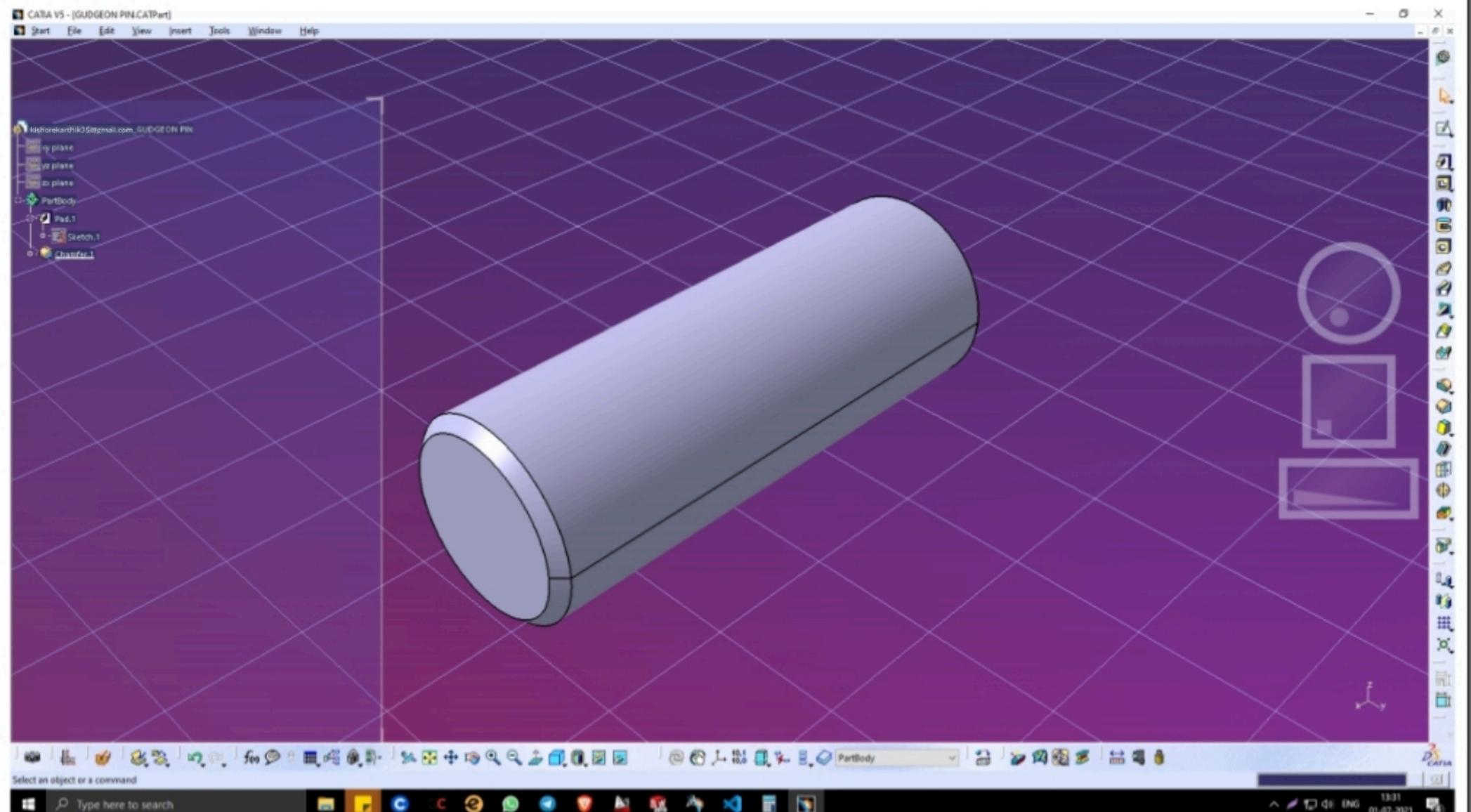
DRAWING NAME : DEAD END COVER

DRAWING NUMBER : MEHPD030



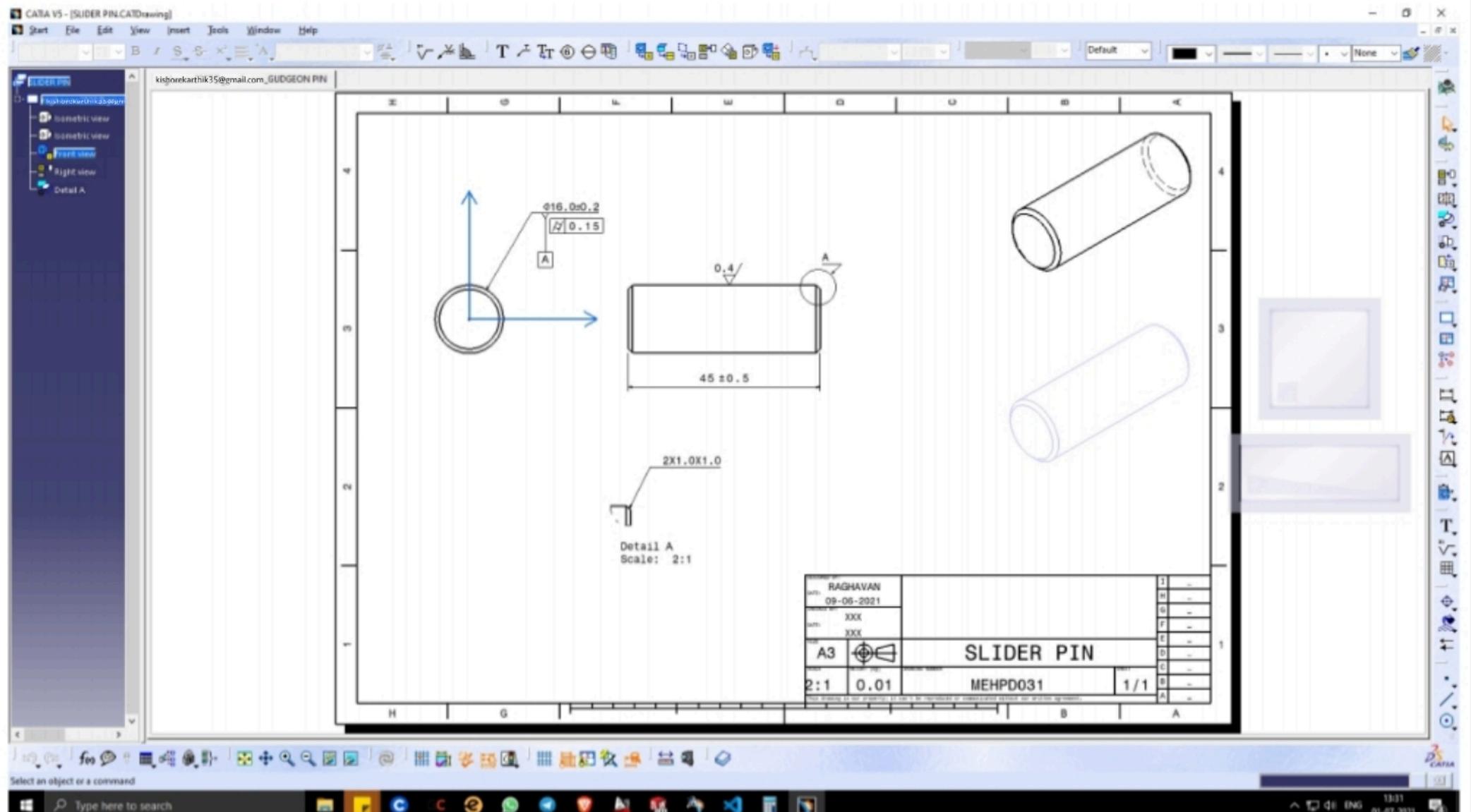
PART NAME : SLIDER PIN

PART NUBER : MEHPP031



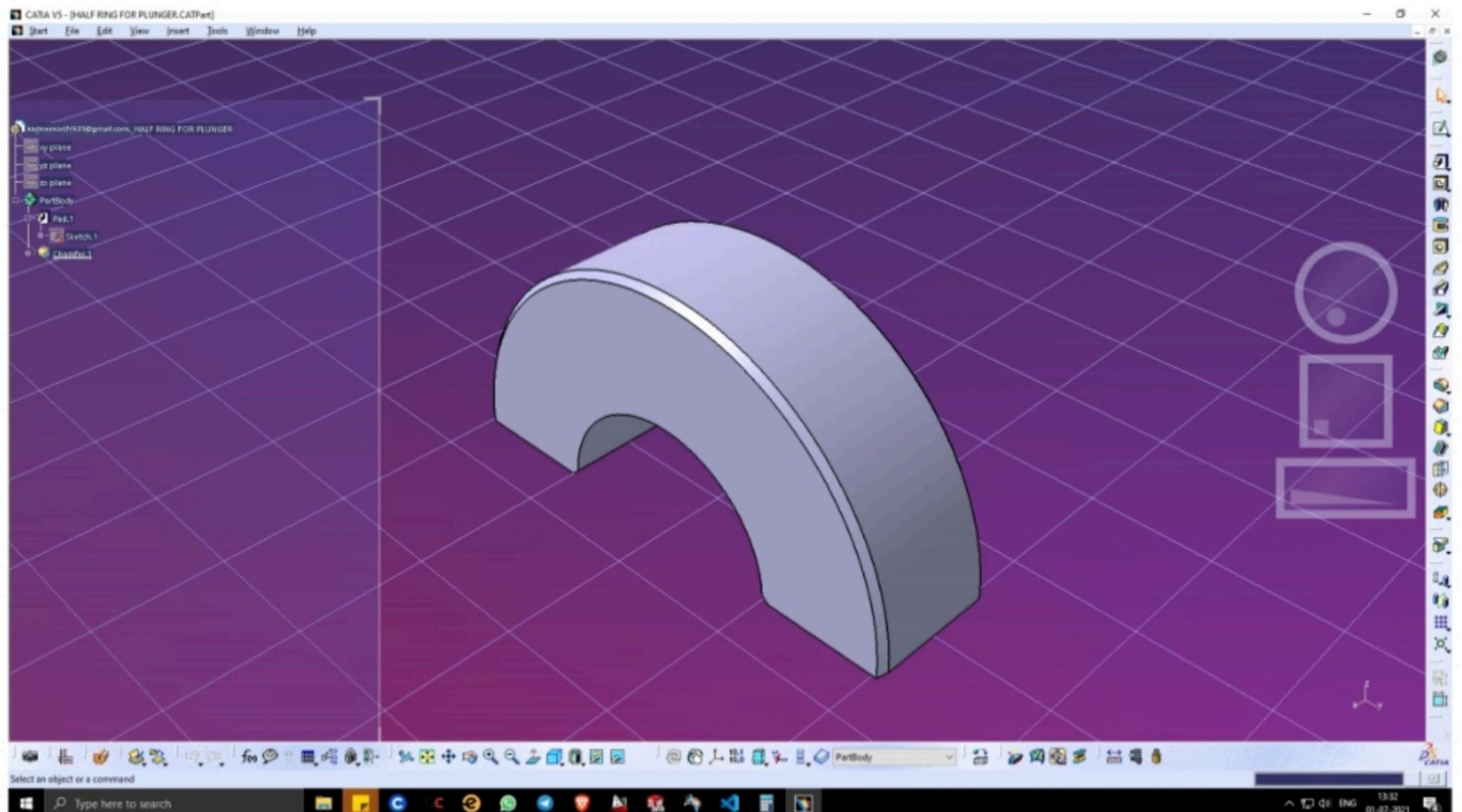
DRAWING NAME : SLIDER PIN

DRAWING NUMBER : MEHPD031



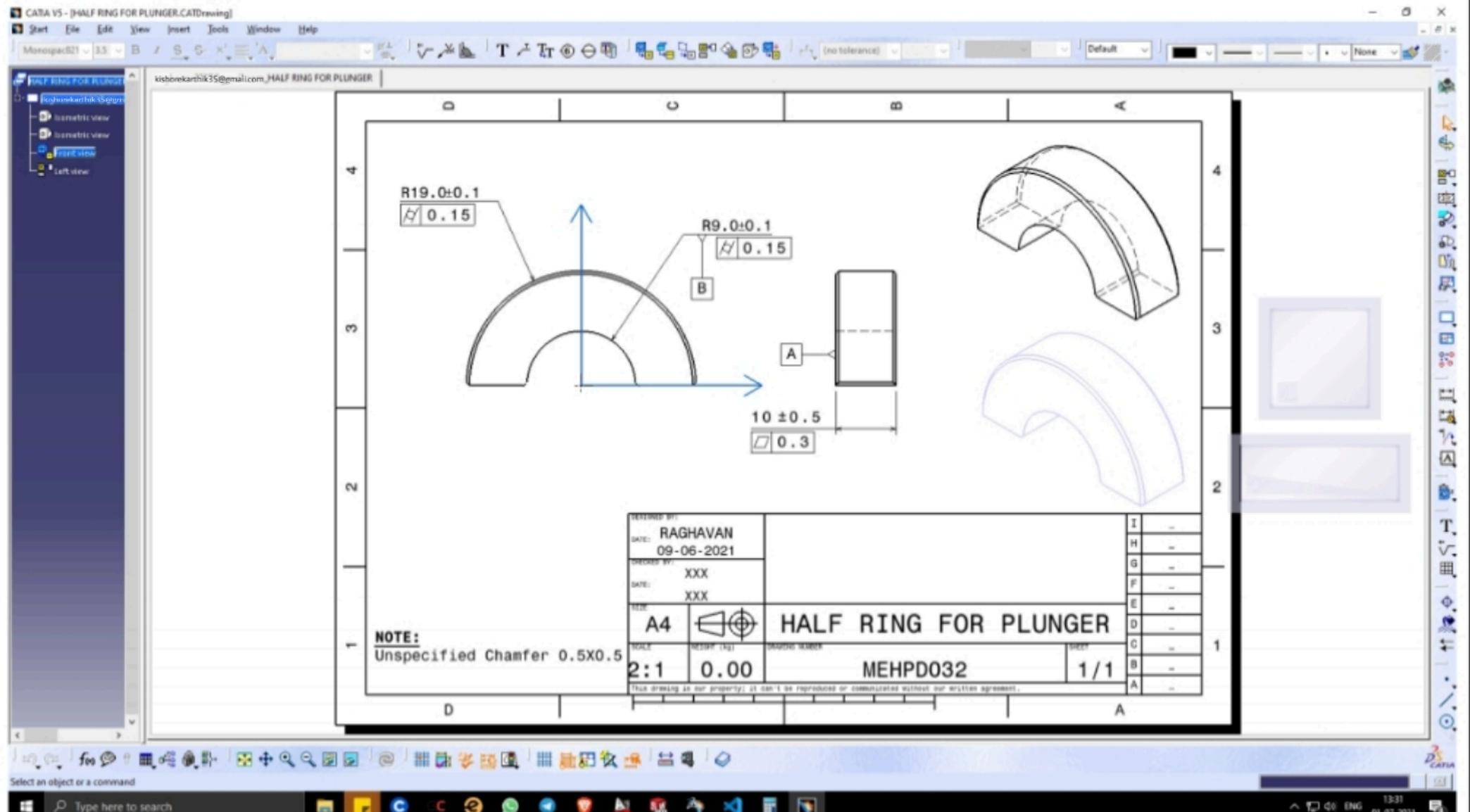
PART NAME : HALF RING FOR PLUNGER

PART NUBER : MEHPP032



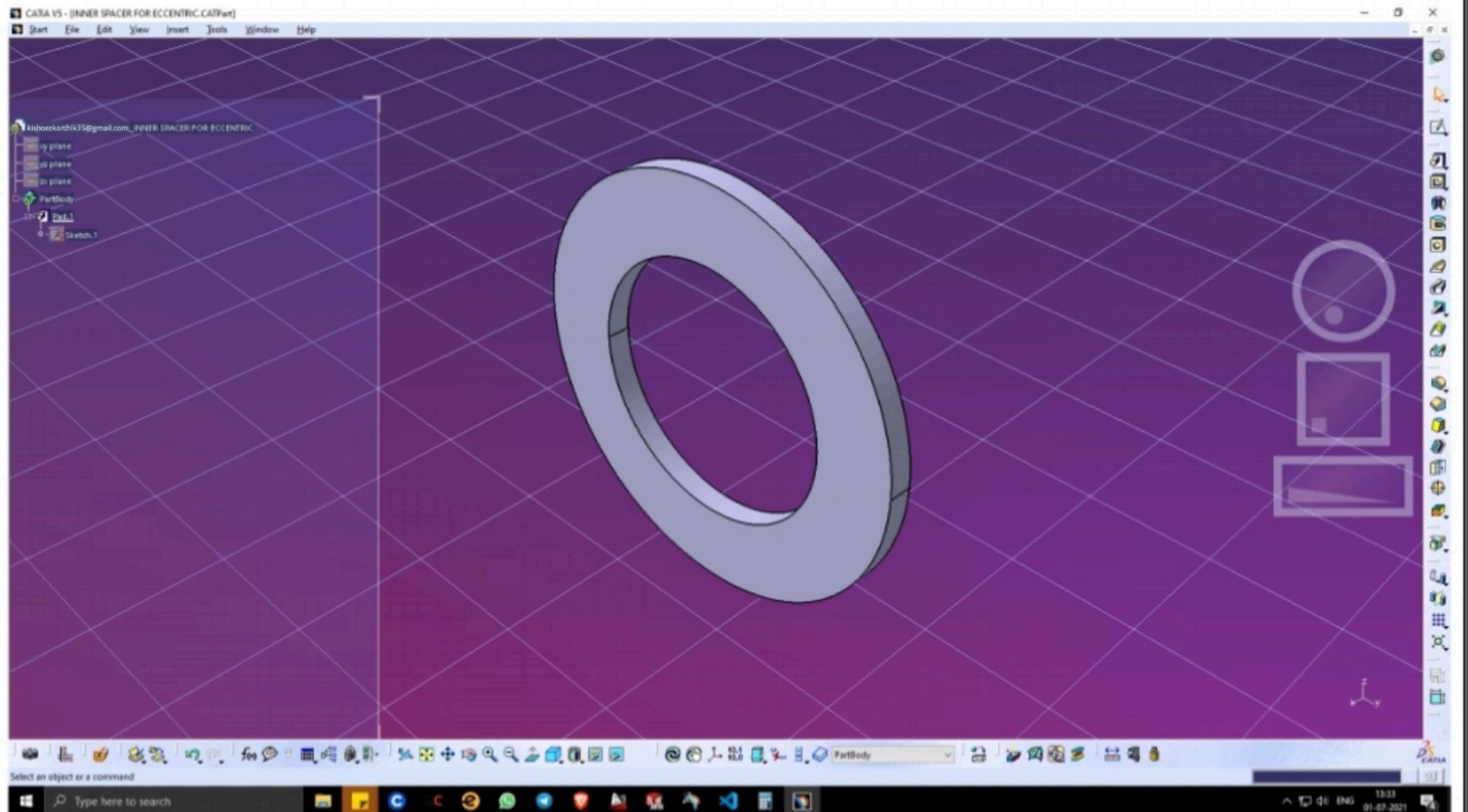
DRAWING NAME : HALF RING FOR PLUNGER

DRAWING NUMBER : MEHPD032



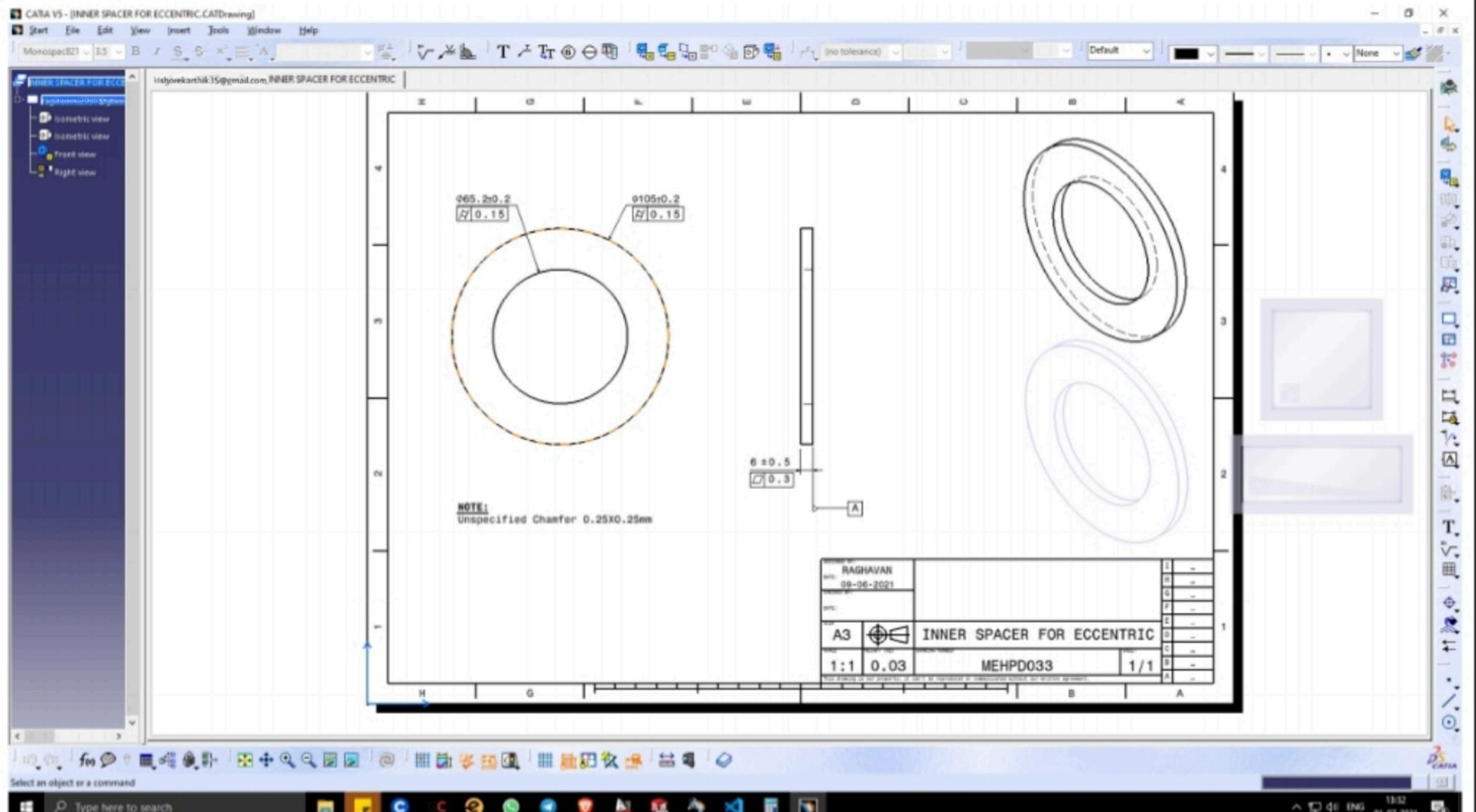
PART NAME : INNER SPACER FOR ECCENTRIC

PART NUBER : MEHPP033



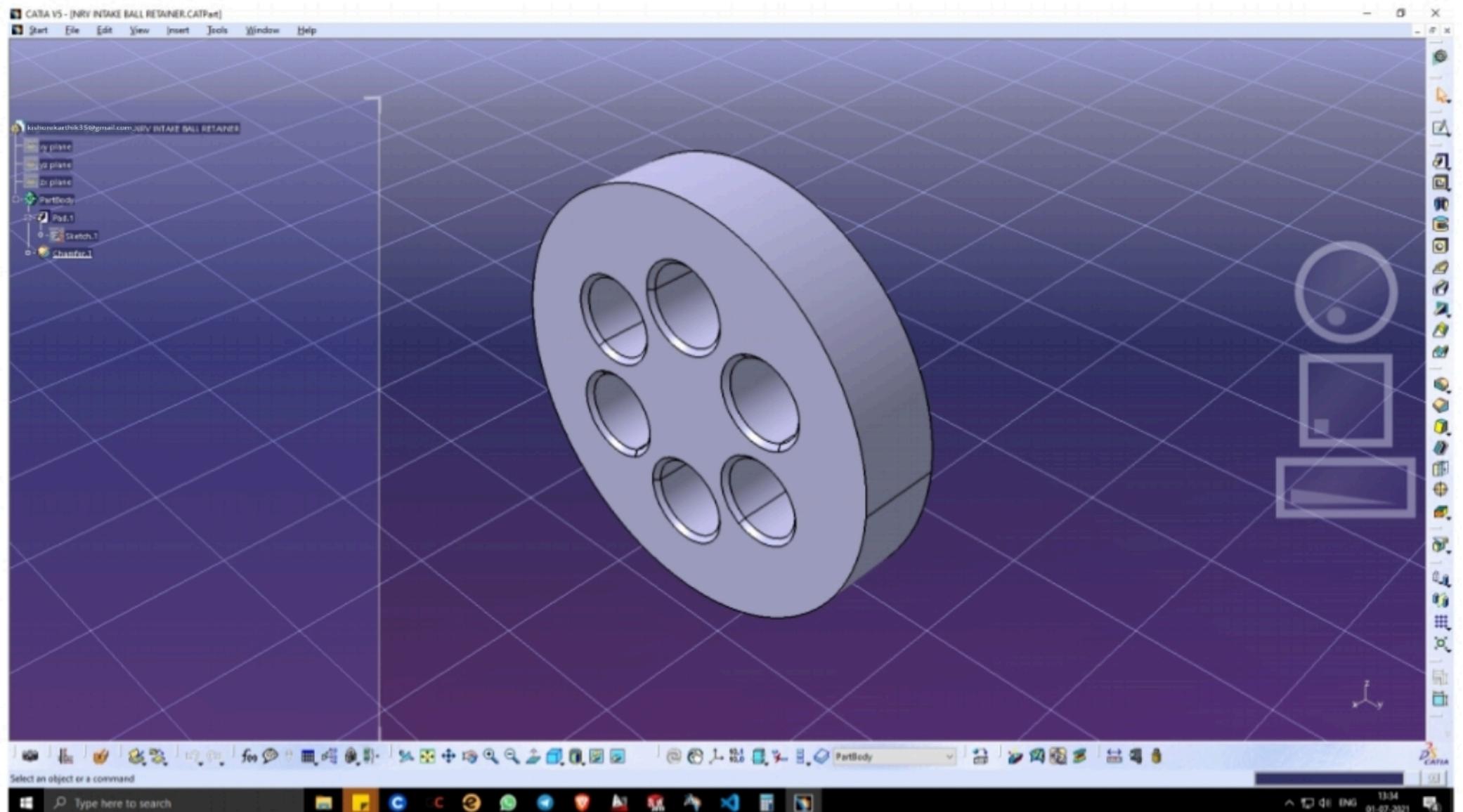
DRAWING NAME : INNER SPACER FOR ECCENTRIC

DRAWING NUMBER : MEHPD033



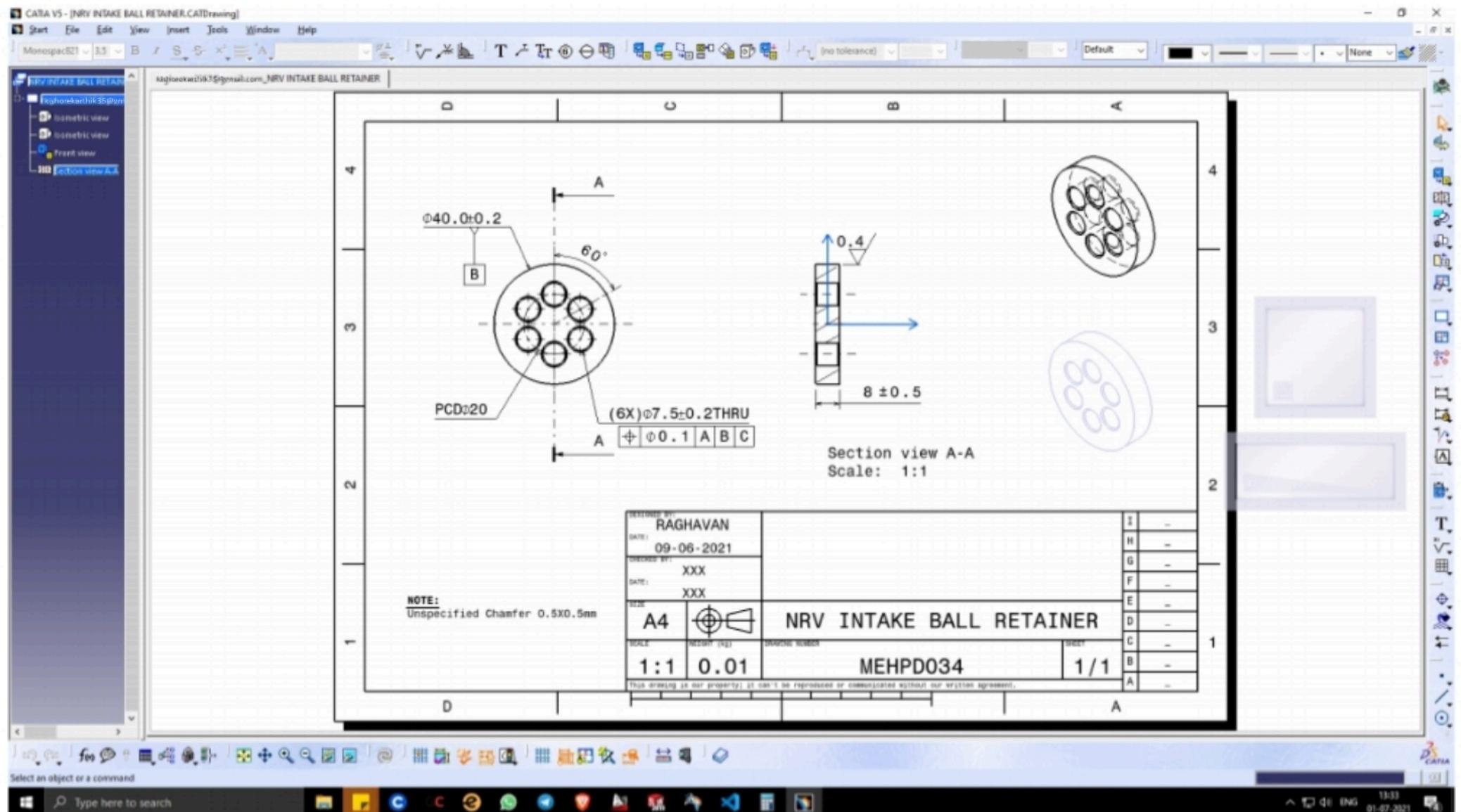
PART NAME : NRV INTAKE BALL RETAINER

PART NUMBER : MEHPP034



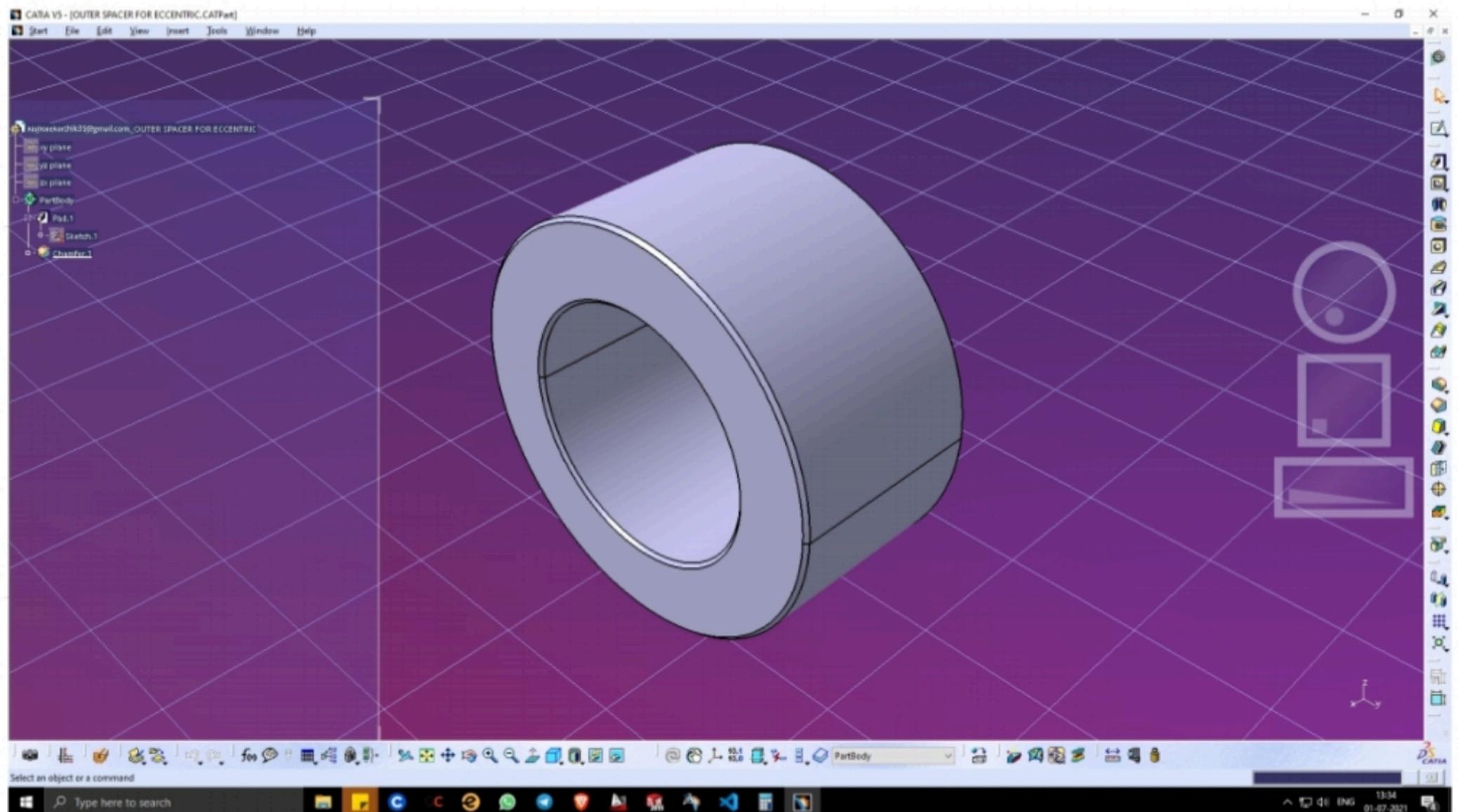
DRAWING NAME : NRV INTAKE BALL RETAINER

DRAWING NUMBER : MEHPD034



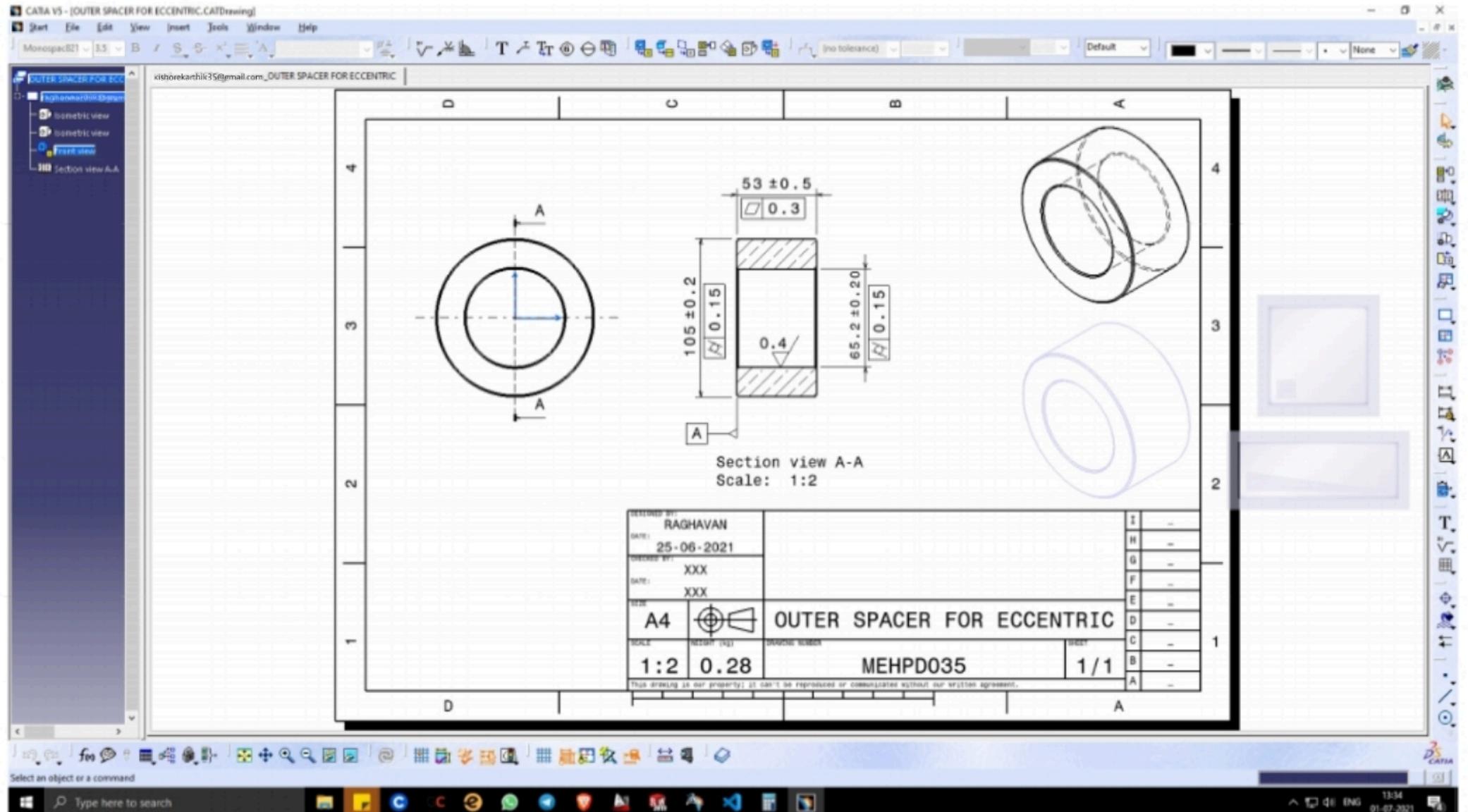
PART NAME : OUTER SPACER FOR ECCENTRIC

PART NUMBER : MEHPP035



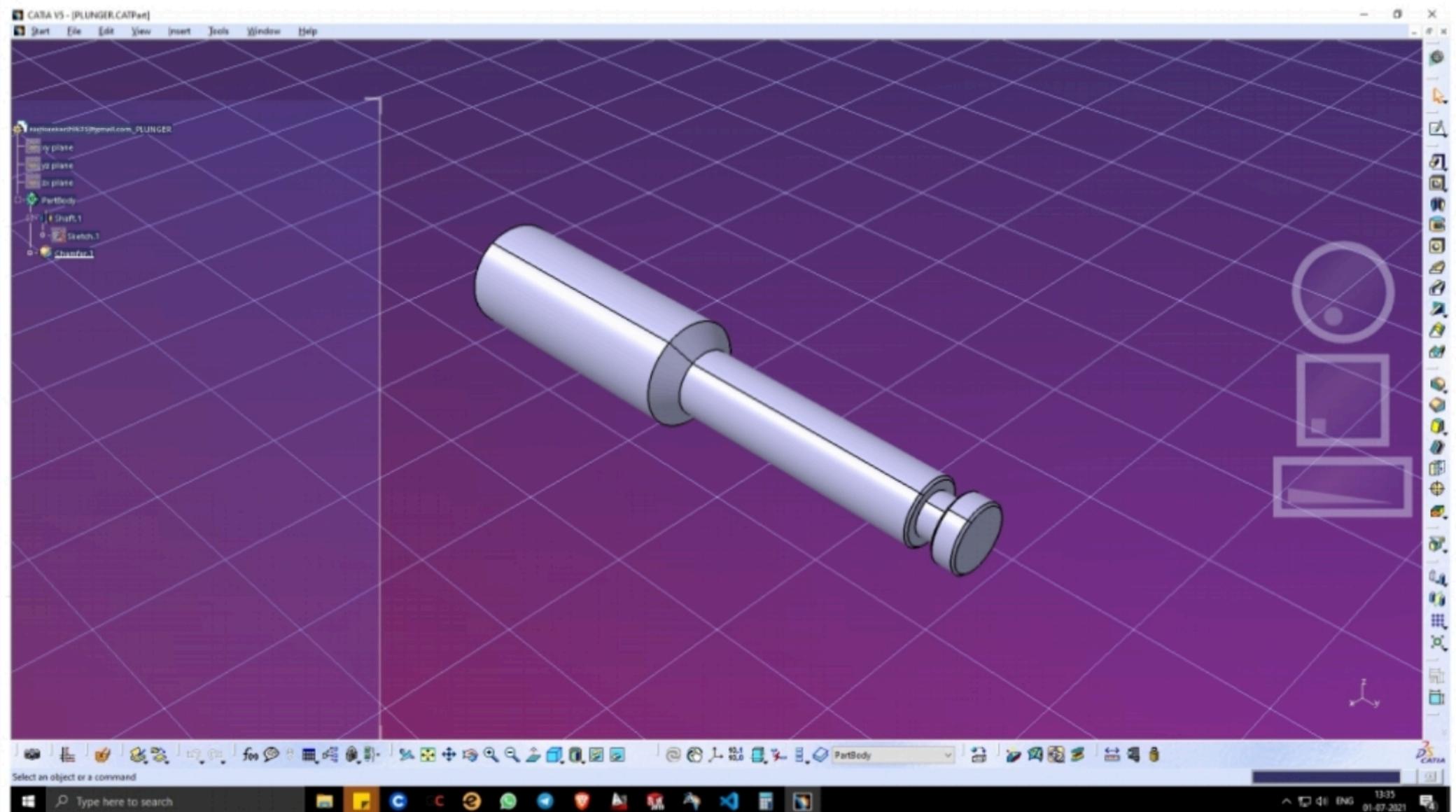
DRAWING NAME : OUTER SPACER FOR ECCENTRIC

DRAWING NUMBER : MEHPD035



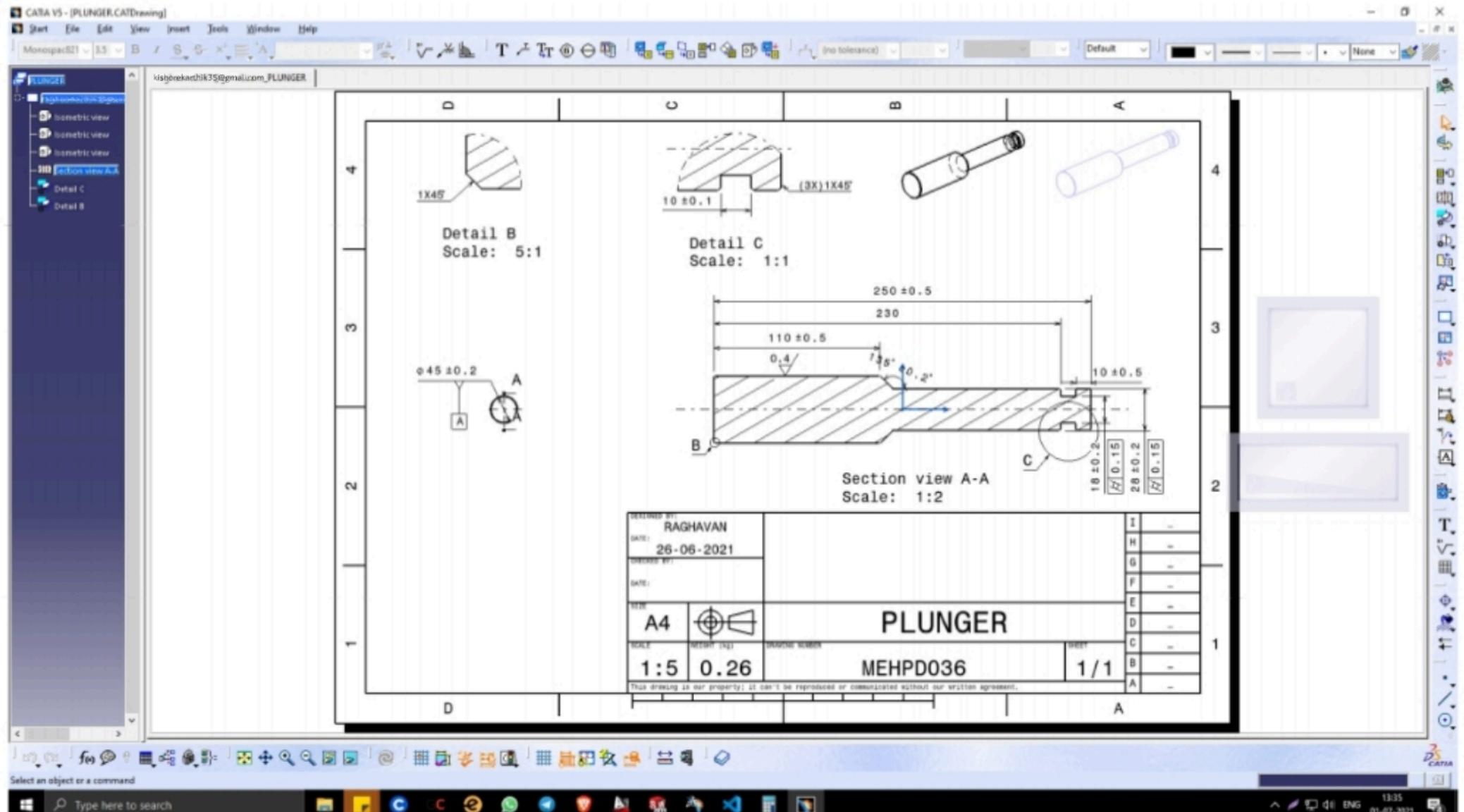
PART NAME : PLUNGER

PART NUBER : MEHPP036



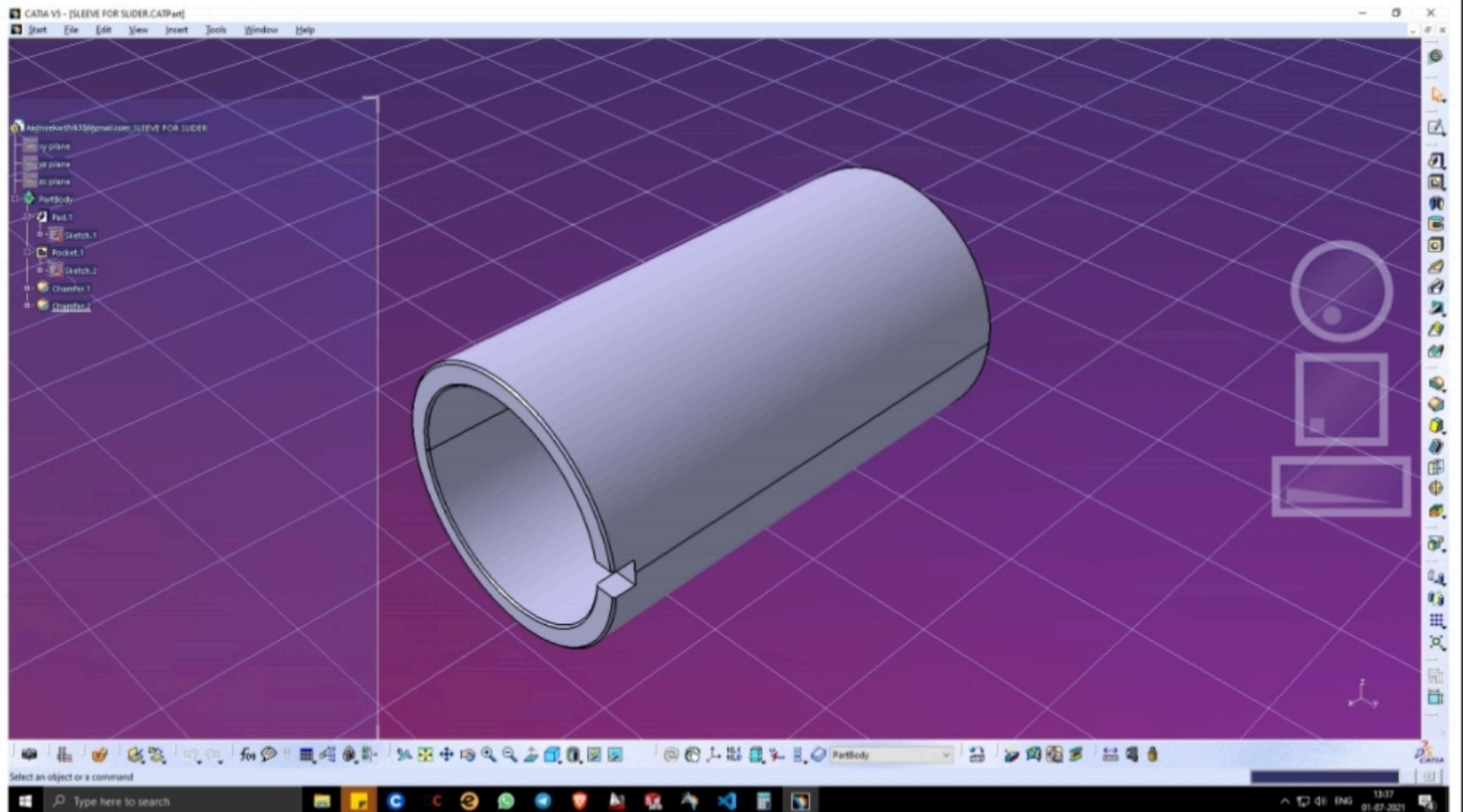
DRAWING NAME : PLUNGER

DRAWING NUMBER : MEHPD036



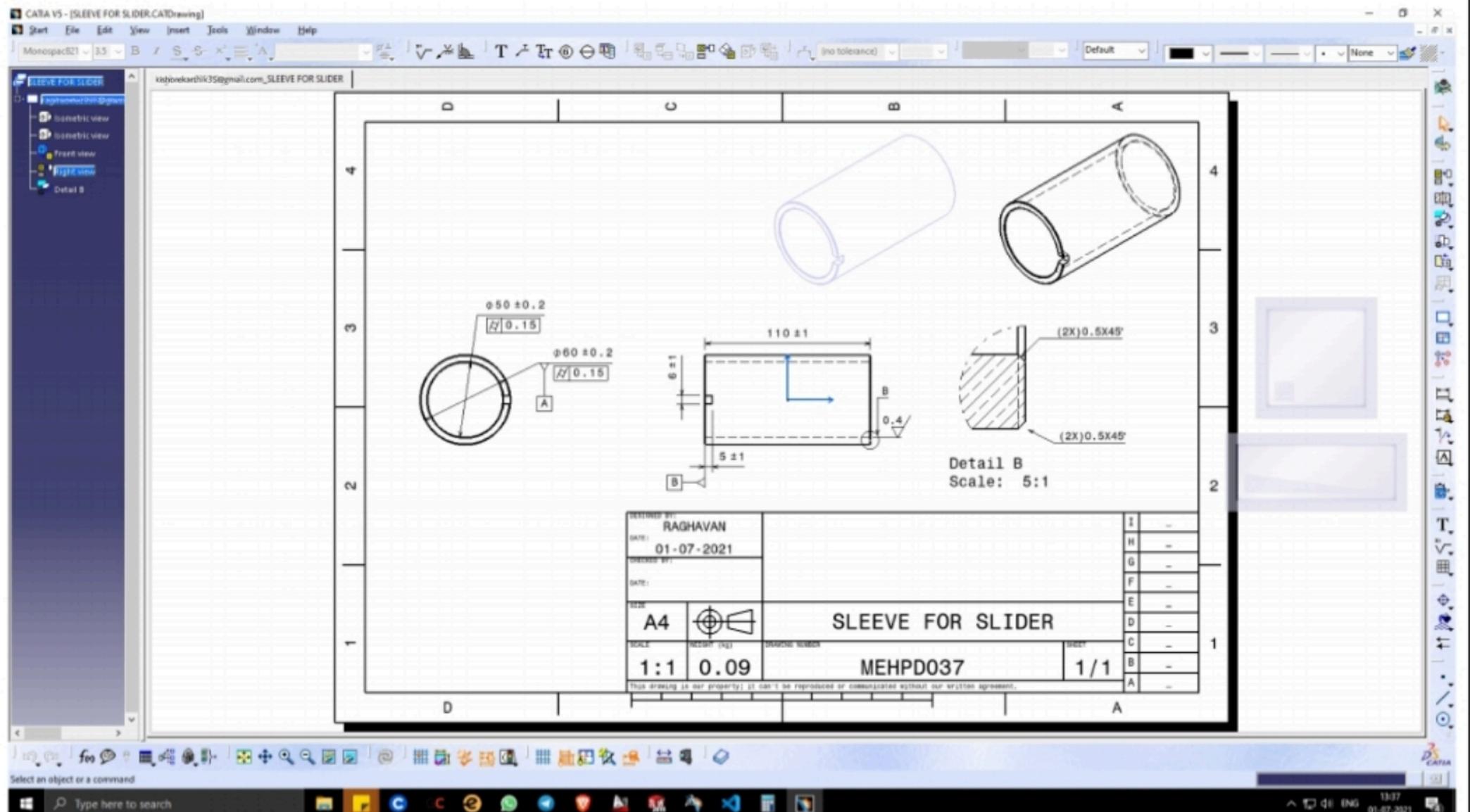
PART NAME : SLEEVE FOR SLIDER

PART NUMBER : MEHPP037



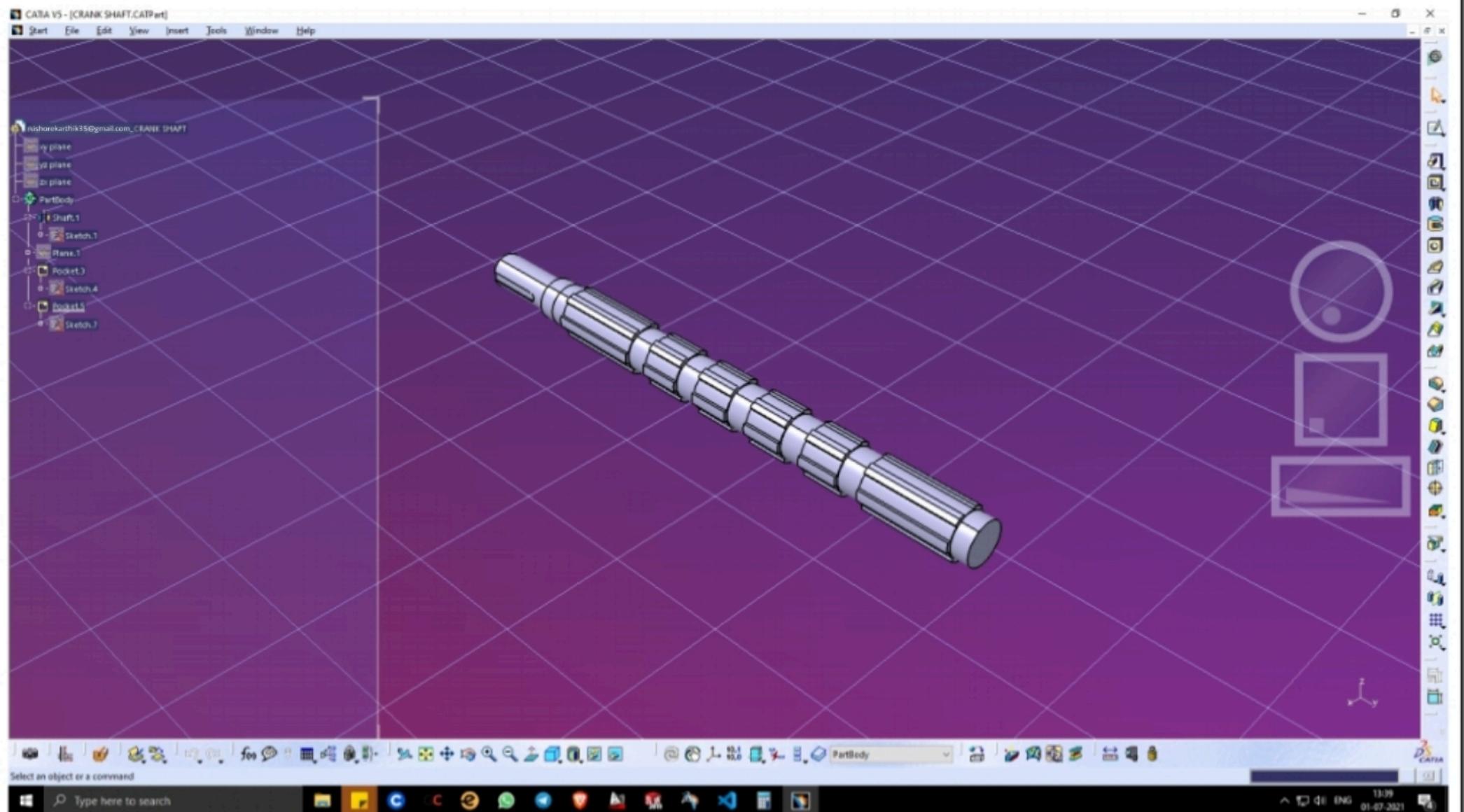
DRAWING NAME : SLEEVE FOR SLIDER

DRAWING NUMBER : MEHPD037



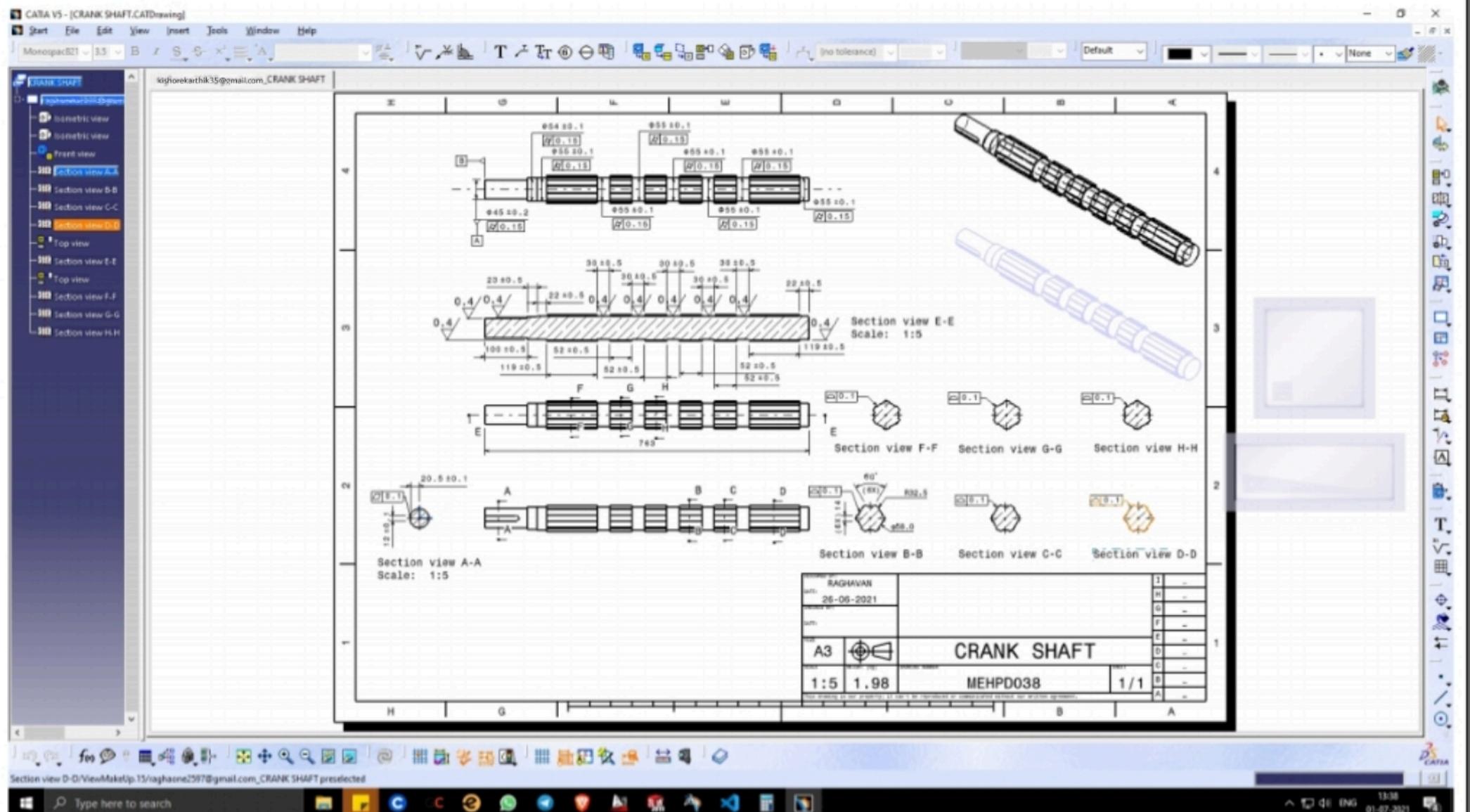
PART NAME : CRANK SHAFT

PART NUMBER : MEHPP038



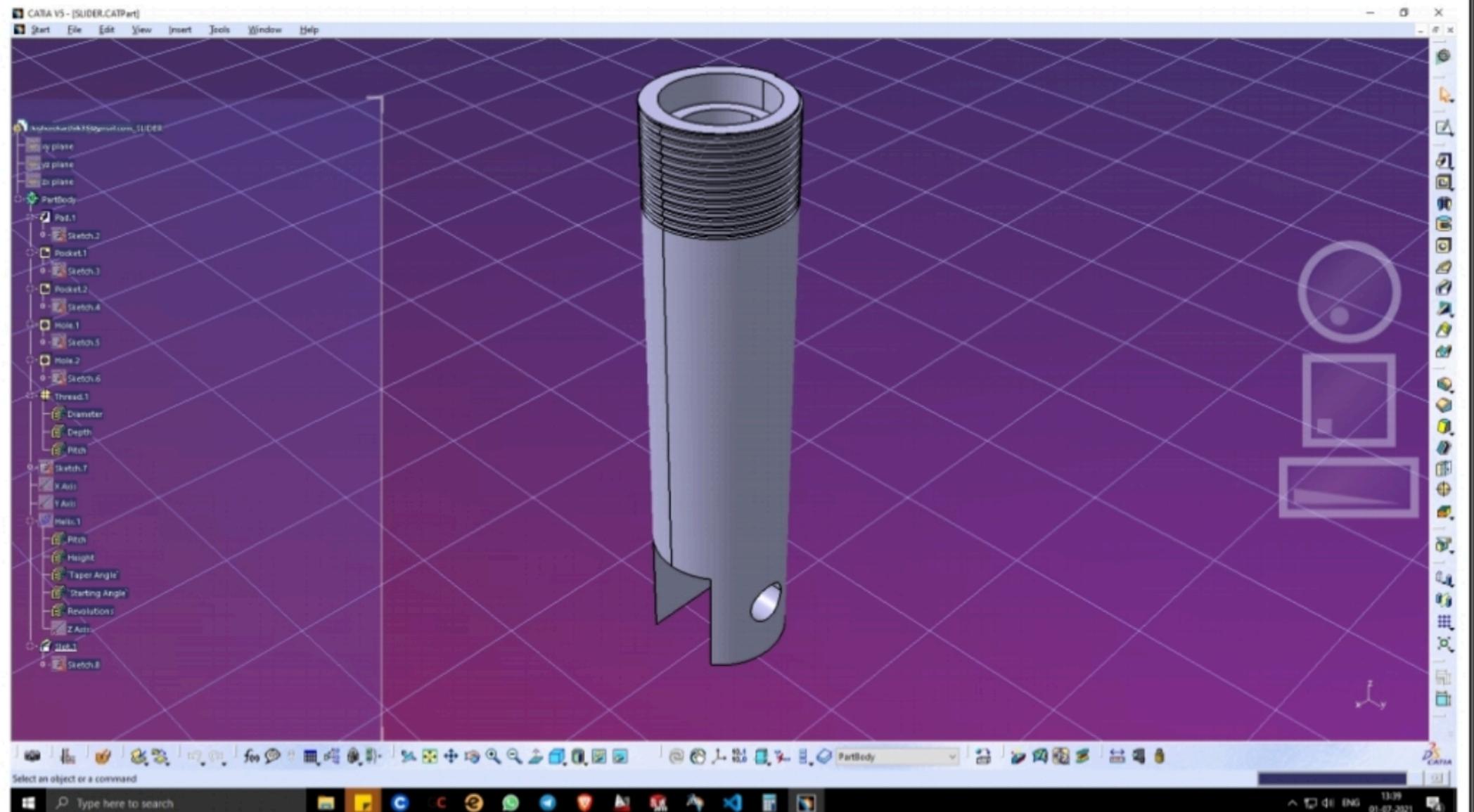
DRAWING NAME : CRANK SHAFT

DRAWING NUMBER : MEHPD038



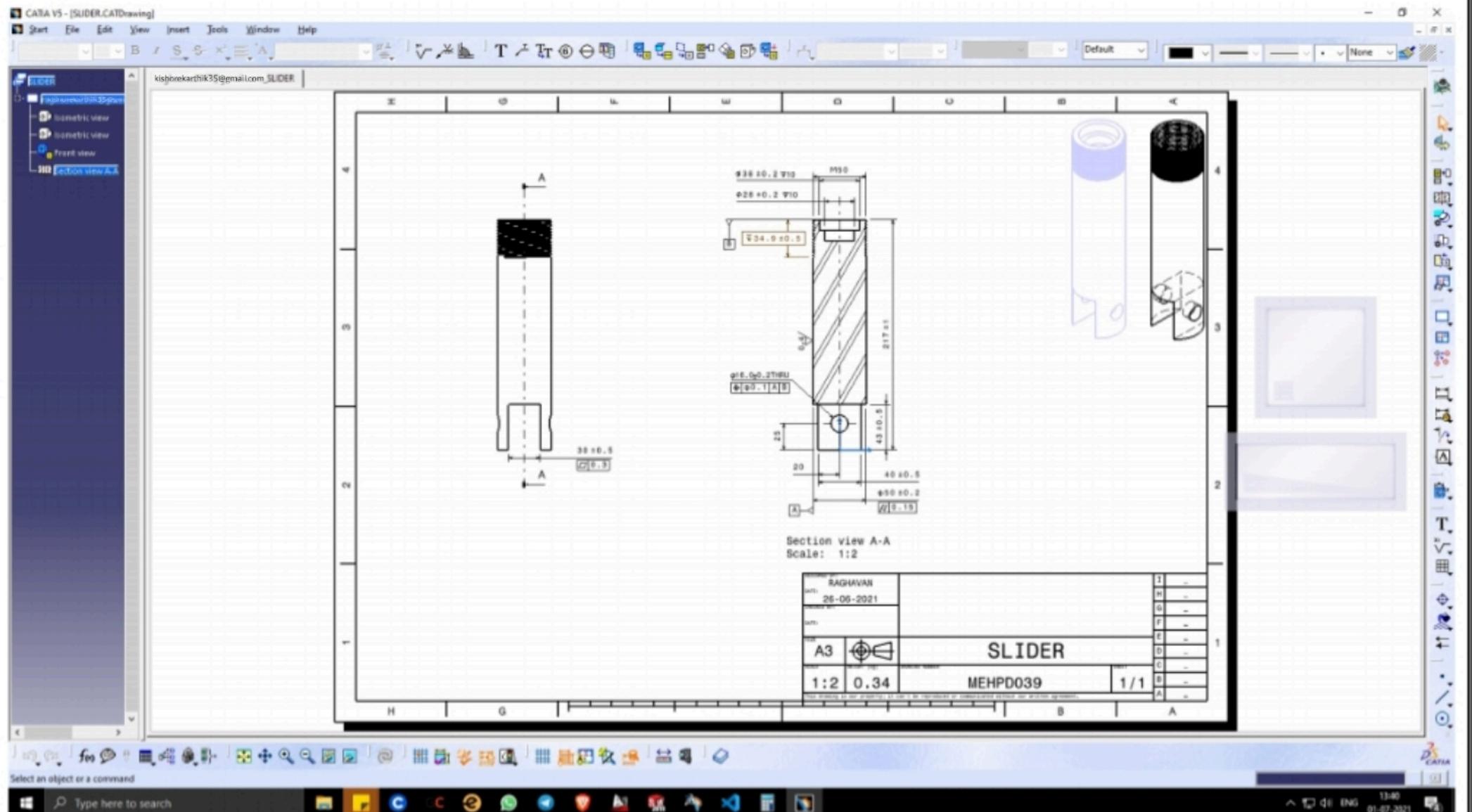
PART NAME : SLIDER

PART NUBER : MEHPP039



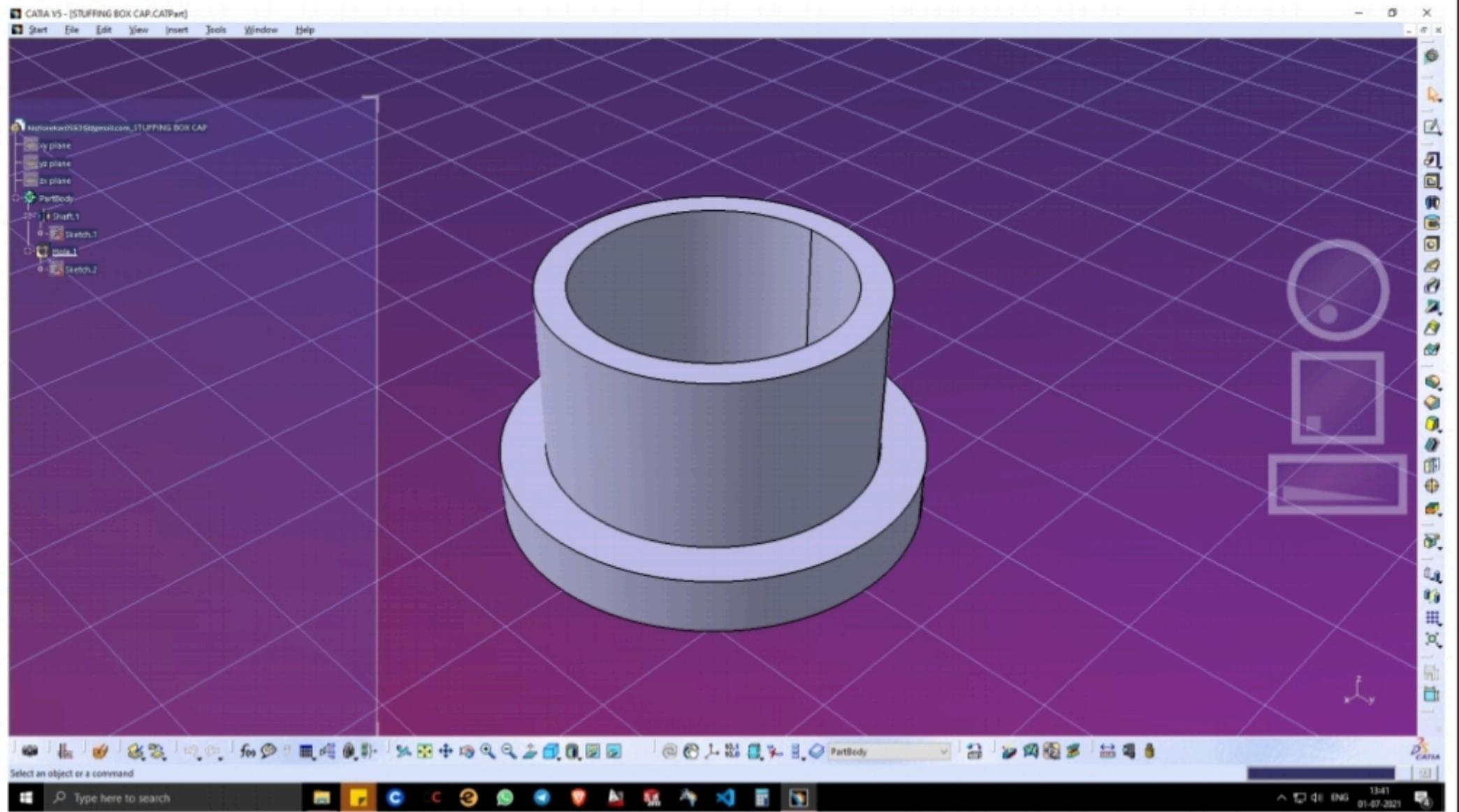
DRAWING NAME : SLIDER

DRAWING NUMBER : MEHPD039



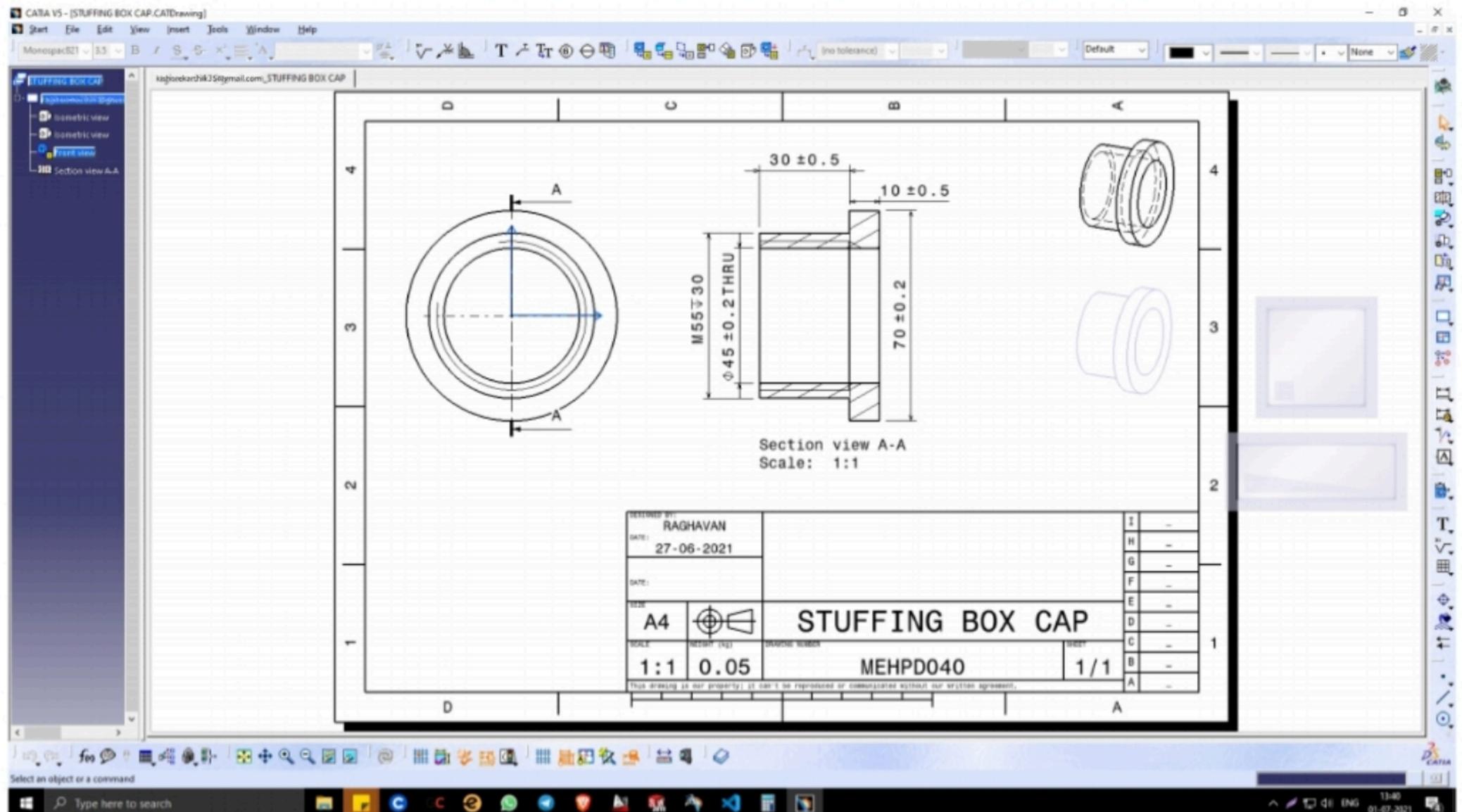
PART NAME : STUFFING BOX CAP

PART NUBER : MEHPP040



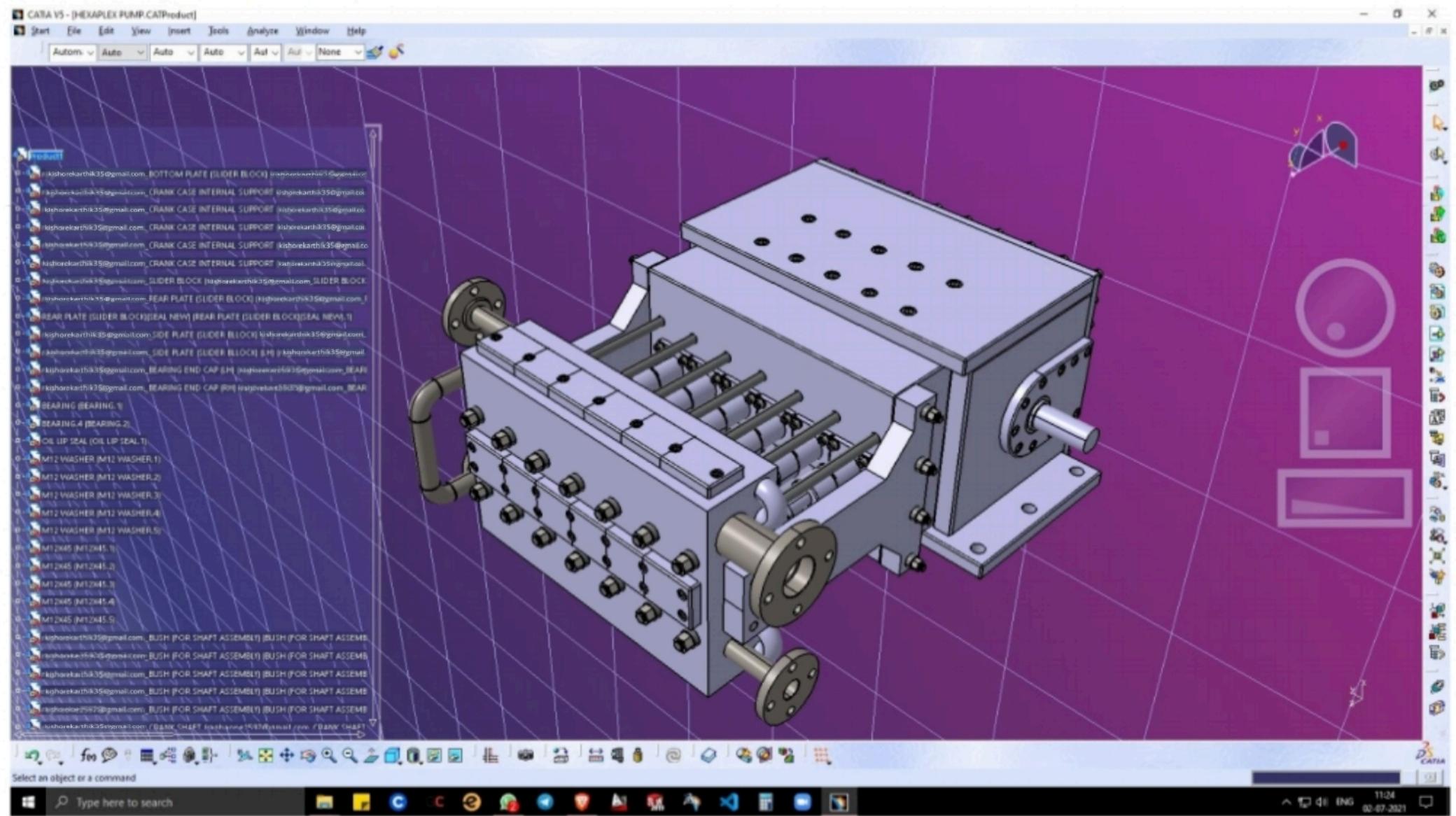
DRAWING NAME : STUFFING BOX CAP

DRAWING NUMBER : MEHPD040



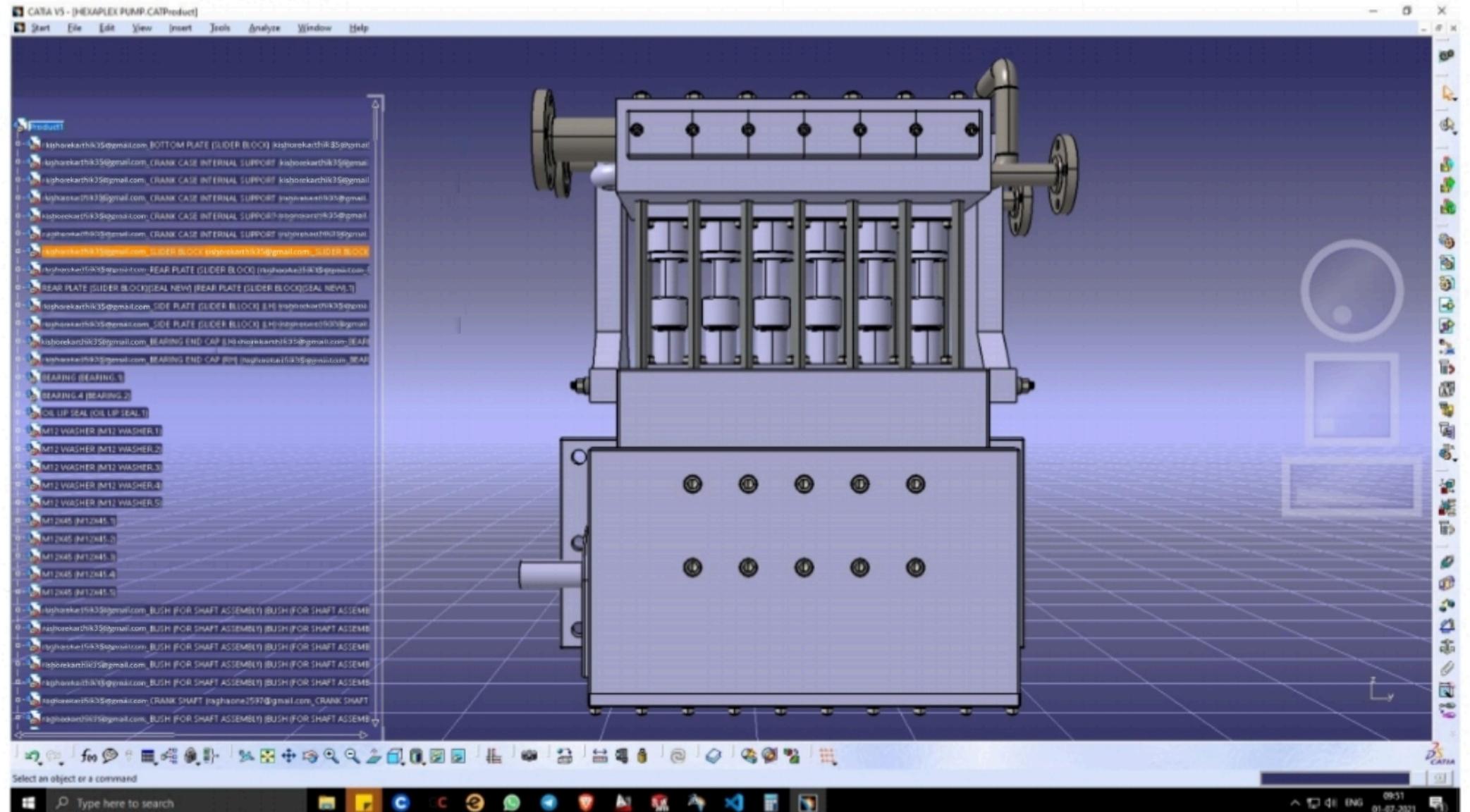
ASSEMBLY NAME : HIGH PRESSURE PUMP

ORIENTATION : ISOMETRIC VIEW



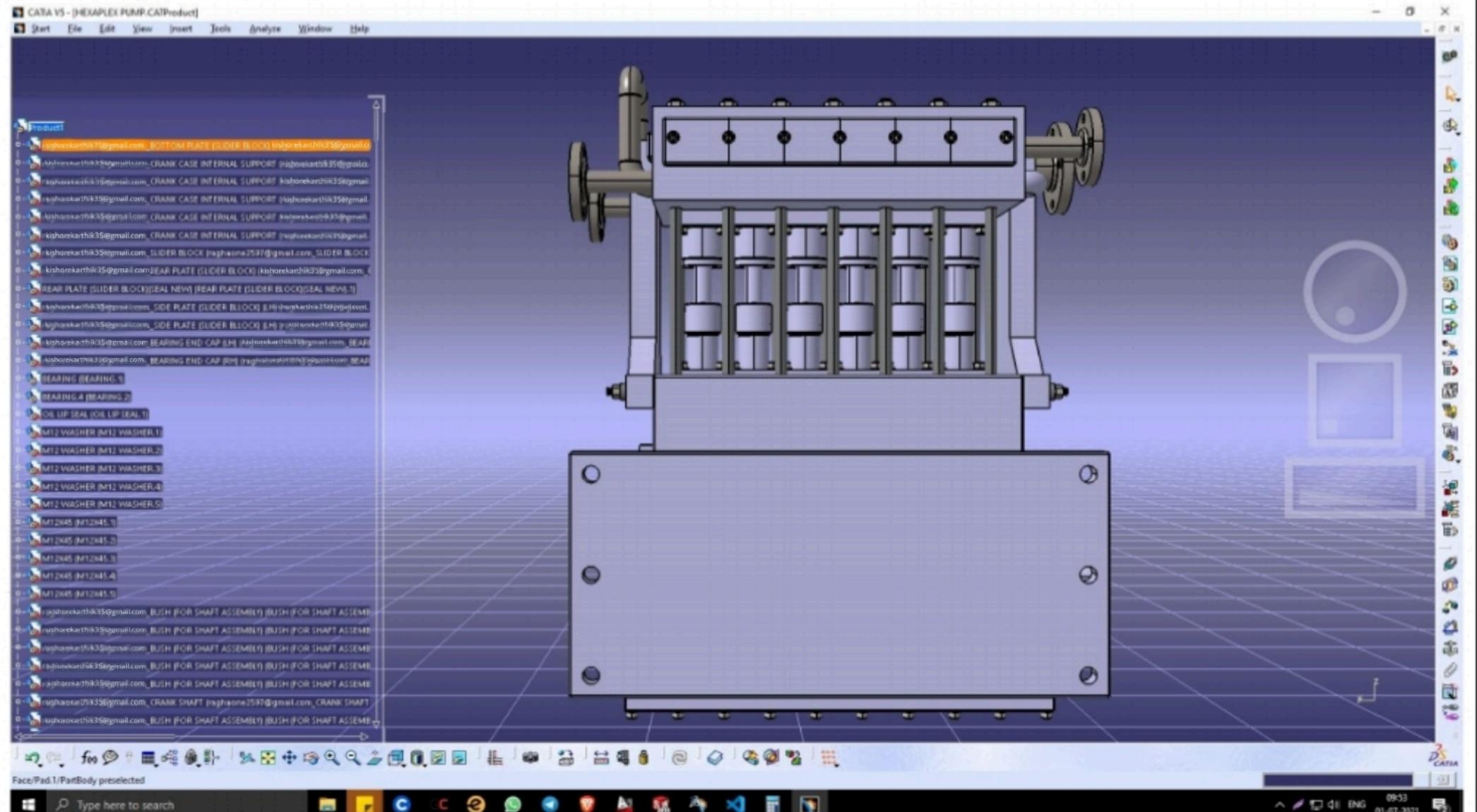
ASSEMBLY NAME : HIGH PRESSURE PUMP

ORIENTATION : FRONT VIEW



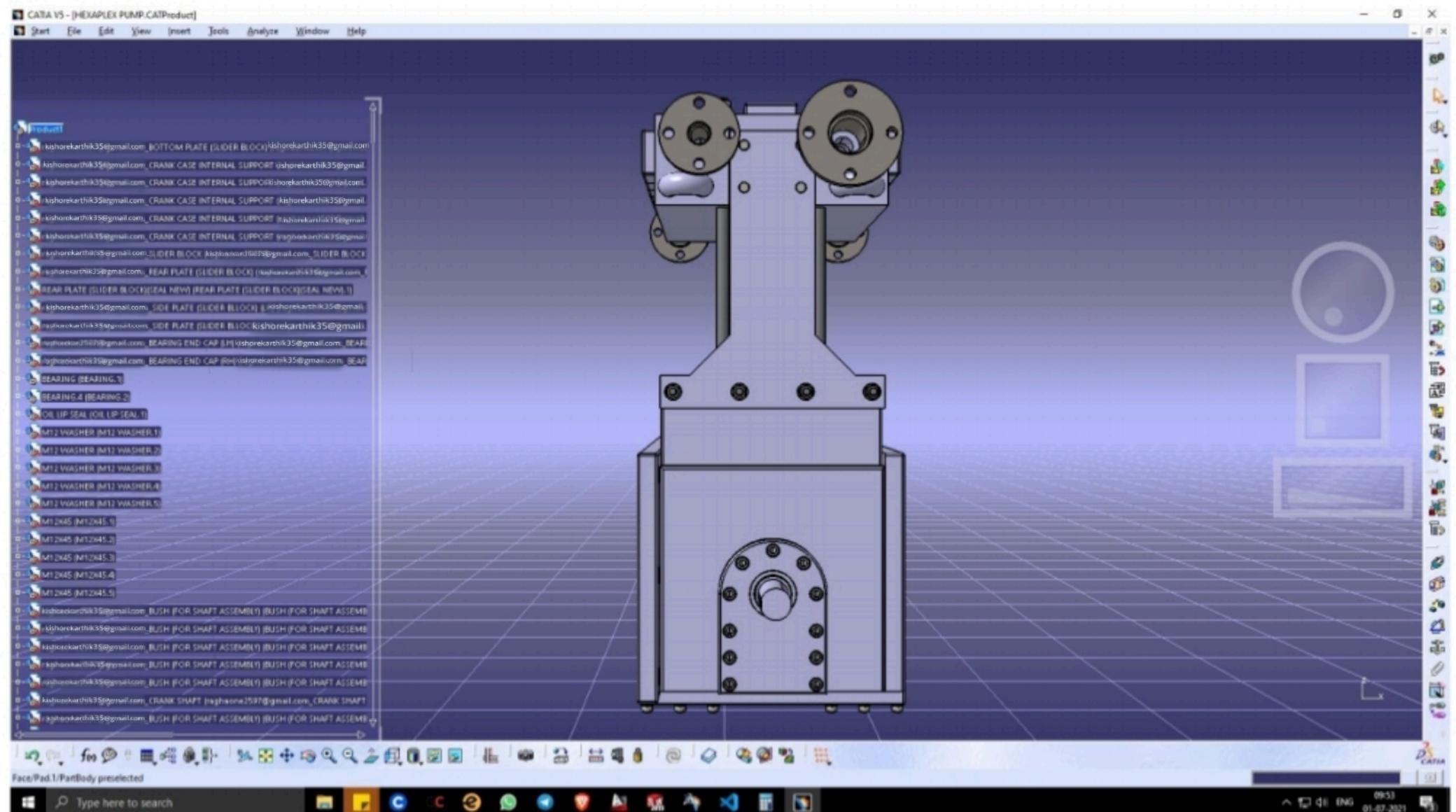
ASSEMBLY NAME : HIGH PRESSURE PUMP

ORIENTATION : BACK VIEW



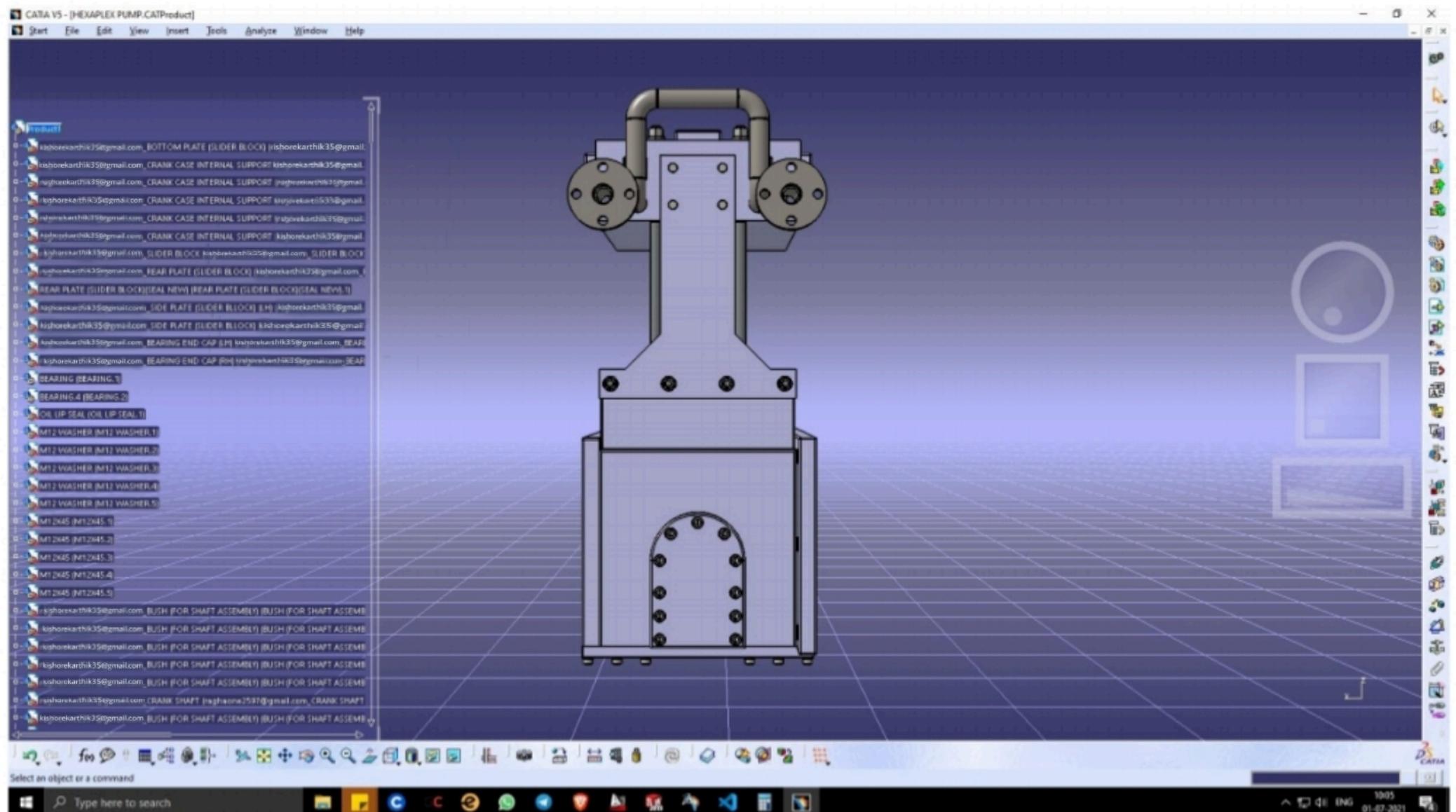
ASSEMBLY NAME : HIGH PRESSURE PUMP

ORIENTATION : LEFT VIEW



ASSEMBLY NAME : HIGH PRESSURE PUMP

ORIENTATION : RIGHT VIEW



BOLT	QTY	MATING PART 1 (THREAD SIDE)	MATING PART 2 (HEAD SIDE)
M12	5	BOTTOM PLATE (SLIDER BLOCK)	CRANK CASE INTERNAL SUPPORT (NO)
M10	10	BOTTOM PLATE (SLIDER BLOCK)	REAR PLATE (SLIDER BLOCK)
M10	4	SIDE PLATE (SLIDER BLOCK) (RH)	REAR PLATE (SLIDER BLOCK)
M10	4	SIDE PLATE (SLIDER BLOCK) (LH)	REAR PLATE (SLIDER BLOCK)
M10	10	TOP PLATE (SLIDER BLOCK)	REAR PLATE (SLIDER BLOCK)
M16	10	CRANK CASE INTERNAL SUPPORT	TOP PLATE (SLIDER BLOCK)
M12	11	SIDE PLATE (SLIDER BLOCK) (RH)	BEARING END CAP (RH)
M12	11	SIDE PLATE (SLIDER BLOCK) (LH)	BEARING END CAP (RH)
M12	12	CONNECTING ROD (TOP)	CONNECTING ROD (BOTTOM)
M10	24	SLIDER BLOCK	SEAL HOUSING FOR SLIDER
M10	24	NEW HEXAPLUX HEAD	STUFFING BOX
M10	7	NEW HEXAPLUX HEAD	NRV BALL RETAINER (RH, LH OUTER) & (INNER)
M10	7	NEW HEXAPLUX HEAD	NRV SEAT (RH, LH SUCTION OUTER) & (INNER)
M10	14	NEW HEXAPLUX HEAD	CYLINDER CAP & (OUTER)
M6	18	ECCENTRIC	FLANGE PLATE FOR ECCENTRIC

BEARING						
SNO	QTY	ID	OD	WIDTH	MATING PART 1	MATING PART 2
1	2	55	100	20	CRANK SHAFT	BEARING END CAP

OIL LIP SEAL						
SNO	QTY	ID	OD	WIDTH	MATING PART 1	MATING PART 2
1	1	54	70	17	CRANK SHAFT	BEARING END CAP

GUIDE SEAL						
SNO	QTY	ID	OD	WIDTH	MATING PART 1	MATING PART 2
1	1	49.5	58.6	5.3	SLEEVE HOUSING FOR SLIDER	SLIDER BLOCK

OIL SEAL						
SNO	QTY	ID	WIDTH (SECTION DIA)	MATING PART 1	MATING PART 2	
1	6	35	3	NRV SEAT	HEAD	
2	4	35	3	NRV BALL RETAINER	HEAD	
3	1	66	3	SLIDER	SLEEVE HOUSING FOR SLIDER	

PACKAGE SEAL (PTFE)						
SNO	QTY	ID	OD	WIDTH	MATING PART 1	MATING PART 2
1	6	44.5	55	45	PLUNGER	STUFFING BOX
2	6	40	56	8	CYLINDER CAP	HEAD
3	6	40	56	8	NRV BALL RETAINER	HEAD
4	6	40	56	8	NRV SEAT	HEAD