



GOVERNMENT OF MAHARASHTRA
ISMAIL YUSUF COLLEGE OF ARTS, SCIENCE AND COMMERCE
JOGESHWARI (EAST), MUMBAI - 400 060.

Email : principaliyc@rediffmail.com

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LABORATORIES

INDEX

Sr. No.	DEPARTMENT	NUMBER OF LABORATORIES	PAGE NO.
1.	CHEMISTRY	08	02
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5.	BIOTECH	02	103
	TOTAL	21	


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DEPARTMENT OF CHEMISTRY

NEW SCIENCE BUILDING

NEW SCIENCE BUILDING	PHYSICAL CHEMISTRY
	INORGANIC CHEMISTRY
	ORGANIC CHEMISTRY
	INSTRUMENT ROOM 1
	INSTRUMENT ROOM 1
	RESEARCH ROOM

OLD SCIENCE BUILDING

OLD SCIENCE BUILDING	CHEMISTRY LABORATORY A	Hod Cabin
		Staff Room
		Preparation Room
		Chemical Store Room
		Glassware Store Room
	CHEMISTRY LABORATORY B	Staff Room
		Preparation Room


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INORGANIC CHEMISTRY LAB

Laboratory	NEW SCIENCE BUILDING GROUND FLOOR
No of Platform/Tables	03 Tables with sink and 2 Taps each 01 Side Tables with Sink with 2 Taps
Students Seating Capacity	16
Area of Classroom ($l \times b$)Sq. ft.	32 X 21.5
Teachings Aids	White Board with marker 01 Table, 01 Chair 01 Fume hood, Muffle Furnace 01 Flame Photometry, o 01 Suction Pump
No. of Fan	Ceiling Fans 03 Exhaust Fans 04
No. of Tube light/ Panel light	12
No. of camera	01
No. of Door	03
No. of windows	06


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PHYSICAL CHEMISTRY LAB

Laboratory	NEW SCIENCE BUILDING GROUND FLOOR
No of Tables and Chairs	05 Tables with sink and 2 Taps each 03 Tables 04 Chairs
Students Seating Capacity	30
Area of Classroom ($l \times b$)Sq. ft.	26X15
Teachings Aids	Marker Board (list of instrument is attached) 02 Fridge , 01 Shaker ,02 Thermostat,Steel DIstillation ,02 Sonicator , 01 Microwave oven, 01 ICE maker ,02 Digital Weighing Balance
No. of Fan	Ceiling Fans = 08 Exhaust Fan = 06
No. of Cupboard	Stainless Steel 02 + 02 Wall mounted Cupboard 02
No. of Tube light/ Panel light	23
Fire extinguisher/ Auto fire protection ball	01
No. of camera	02
No. of Door	02
No. of windows	02


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SENIOR ORGANIC CHEMISTRY

Laboratory	OLD SCIENCE BUILDING GROUND FLOOR
Students Seating Capacity	40
Area of Classroom (l×b)Sq. ft.	56 X 34
Teachings Aids	Chalk and Board and Marker and board
No. of Exhaust Fan	07
No. of AC	NA
No. of Tube light/ Panel light	22
Fire extinguisher/ Auto fire protection ball	01
No. of camera	04
No. of Door	08
No. of windows	06


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Preparation Room Senior College	OLD SCIENCE BUILDING GROUND FLOOR
No Of Chairs	04
No of Fridge	01
No of Cupboards	02 stainless steel 02 wooden
Area of Classroom (l×b)Sq. ft.	19 X 12
No. of Tables	02 wooden 01 Marble Platform with Ceramic Sink 01 Metal Stand with 4 shelf
No. of Fan	01 Ceiling 01 Table Fan
No. of Water Filter	01
No. of Tube light/ Panel light	04
Fire extinguisher/ Auto fire protection ball	01
No. of camera	00
No. of Door	03
No. of windows	01


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Chemical Store Room	OLD SCIENCE BUILDING LEFT WING CHEMISTRY DEPARTMENT
Room number	NA
No of Benches	NA
Students Seating Capacity	NA
Area of Classroom ($l \times b$)Sq. ft.	22 X 22
Teachings Aids	NA
No. of Fan	NA
No. of AC	NA
No. of Tube light/ Panel light	04
Fire extinguisher/ Auto fire protection ball	00
No. of camera	00
No. of Door	02
No. of windows	04

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Glassware Store Room	OLD SCIENCE BUILDING LEFT WING CHEMISTRY DEPARTMENT
Room number	NA
No of Chairs	02
No of Cupboards	04 wooden 05 Metal Stand with 4 shelf each 01 Stainless steel
Area of Classroom (l×b)Sq. ft.	22 x 22
No. of Exhaust Fan	01
No. of Fan	02
No. of Tube light/ Panel light	02
Fire extinguisher/ Auto fire protection ball	00
No. of camera	00
No. of Door	02
No. of windows	02


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CHEMISTRY LAB B

Laboratory	OLD CHEMISTRY LAB GROUND FLOOR
No of Tables	06 Tables with 03 sink each and 2 Taps each sink
Students Seating Capacity	60
Area of Classroom (l×b)Sq. ft.	62 X 36
Teachings Aids	Chalk and Board
No. of Fan	02 Table Fan 06 Exhaust Fan
No. of AC	NA
No. of Tube light/ Panel light	26
Fire extinguisher/ Auto fire protection ball	01
No. of camera	04
No. of Door	07
No. of windows	08


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Preparation Room B College	NEW SCIENCE BUILDING GROUND FLOOR
No Of Chairs	04
No of Fridge	NA
No of Cupboards	01 stainless steel 03 wooden
Area of Classroom (l×b)Sq. ft.	13 x 10
No. of Tables/Platform	02 wooden 01 Marble Platform with Ceramic Sink
No. of Fan	01 Ceiling
No. of Water Filter	01
No. of Tube light/ Panel light	04
Fire extinguisher/ Auto fire protection ball	01
No. of camera	00
No. of Door	01
No. of windows	01


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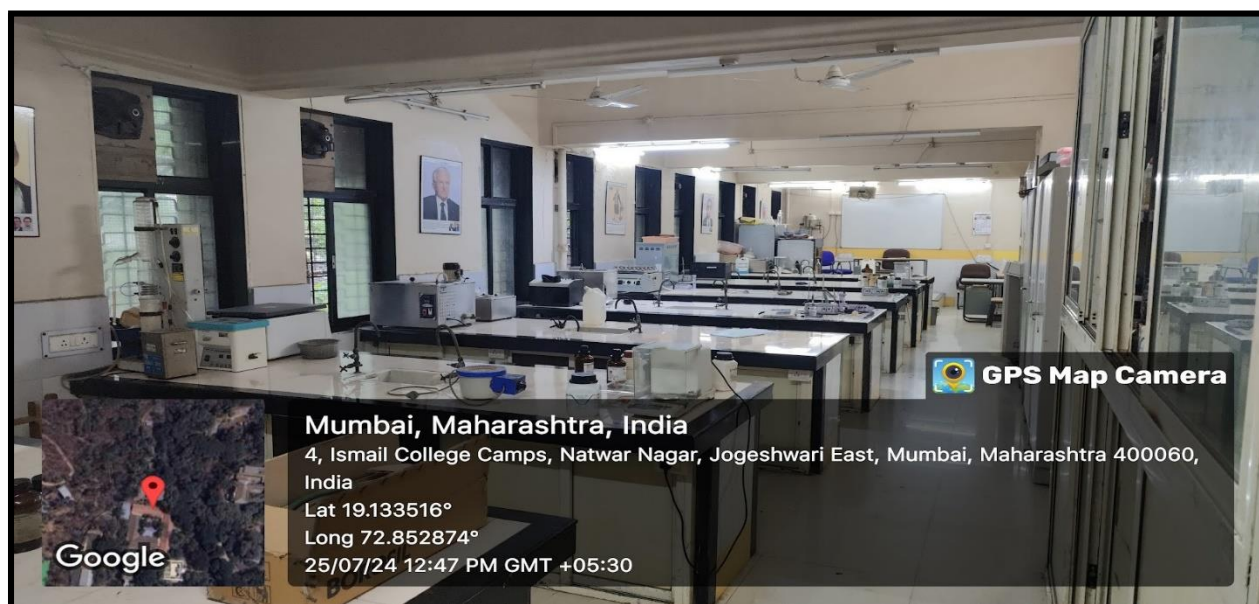


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PHYSICAL CHEMISTRY LAB



INORGANIC CHEMISTRY LAB



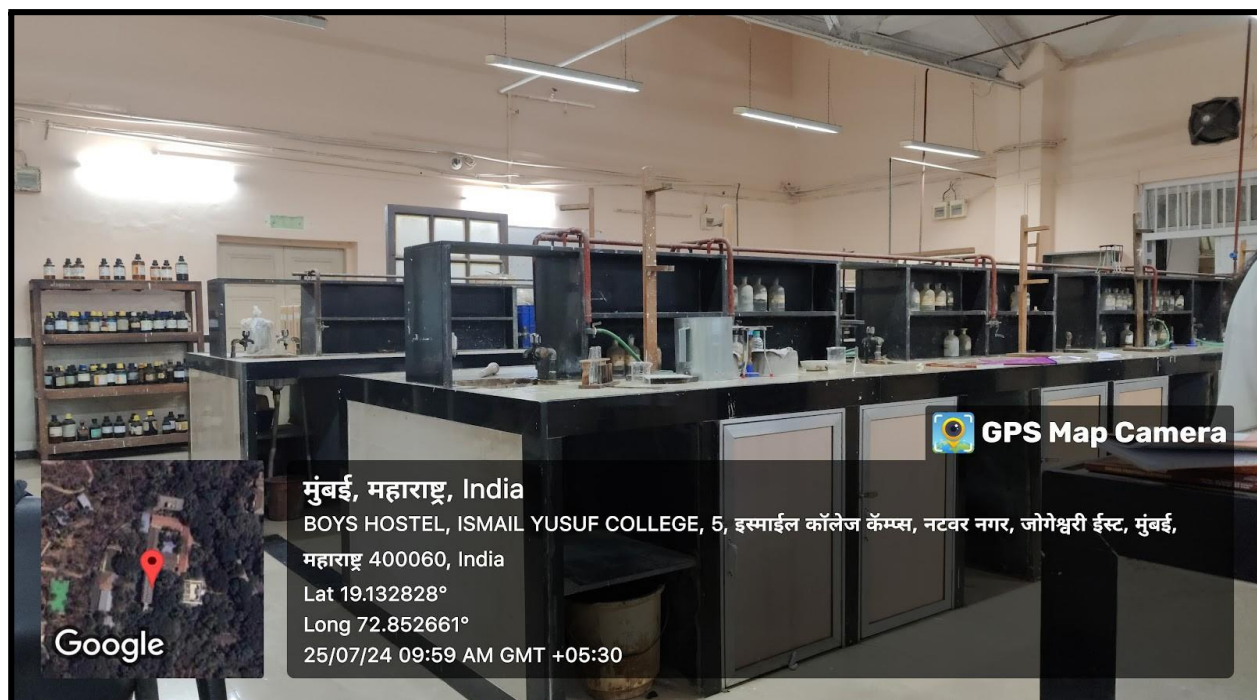


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ORGANIC CHEMISTRY LAB




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PREPARATION ROOM



Mumbai, Maharashtra, India
3, Ismail College Camps, Natwar Nagar, Jogeshwari East, Mumbai, Maharashtra 400060,
India
Lat 19.132926°
Long 72.852686°
01/08/24 12:06 PM GMT +05:30

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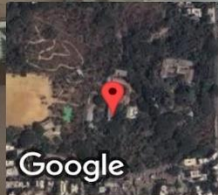
CHEMICAL STORE ROOM



Mumbai, Maharashtra, India
3, Ismail College Camps, Natwar Nagar, Jogeshwari East, Mumbai, Maharashtra 400060, India
Lat 19.132914°
Long 72.852674°
24/08/24 11:10 AM GMT +05:30



Mumbai, Maharashtra, India
BOYS HOSTEL, ISMAIL YUSUF COLLEGE, 5, इमरानल कॉलेज कॅम्प, जगेश्वर पूर्व, मुंबई, महाराष्ट्र 400060, India
Lat 19.132992°
Long 72.85268°
24/08/24 11:10 AM GMT +05:30



Mumbai, Maharashtra, India
3, Ismail College Camps, Natwar Nagar, Jogeshwari East, Mumbai, Maharashtra 400060, India
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GLASSWARE STORE ROOM




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LABORATORY B



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PREPARATION ROOM B



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RESEARCH LAB	NEW SCIENCE BUILDING GROUND FLOOR
No of Tables	Wooden Table 01 Marble platform with under top storage For Chemical
Students Seating Capacity	06
Area of Classroom (l×b)Sq. ft.	15.5 X 16.75
No. of Fan	Ceiling Fans = 01 Exhaust Fan = 02
No. of Tube light/ Panel light	04
Fire extinguisher/ Auto fire protection ball	00
No. of Door	01
No. of windows	03


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CHEMISTRY RESEARCH LAB



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INSTRUMENT LAB A	NEW SCIENCE BUILDING GROUND FLOOR
No of Tables and Chairs	Table 01 Chair 01
No of platform	Marble Tables : 03 with Sink and tap Marble Table : 02 without sink
Area of Classroom ($l \times b$)Sq. ft.	24 x 15
Teachings Aids	01 Xerox Machine and 01 PCs (list of instrument is attached)
No. of Fan	01
No. of AC	02
No. of Tube light/ Panel light	08
Fire extinguisher/ Auto fire protection ball	00
No. of Door	02
No. of windows	05


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INSTRUMENT LAB B	NEW SCIENCE BUILDING GROUND FLOOR
No of Tables	Wooden Table 01 Marble platform with under top storage For Chemical
Area of Classroom (l×b)Sq. ft.	57 x 15
Teachings Aids	01 Glass Cupboard 01 stainless Steel Cupboard
No. of Fan	Ceiling Fans = 05 Exhaust Fan = 00
No. of AC	03
No. of Tube light/ Panel light	10
Fire extinguisher/ Auto fire protection ball	01
No. of camera	01
No. of Door	03
No. of windows	05


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INSTRUMENT ROOM A



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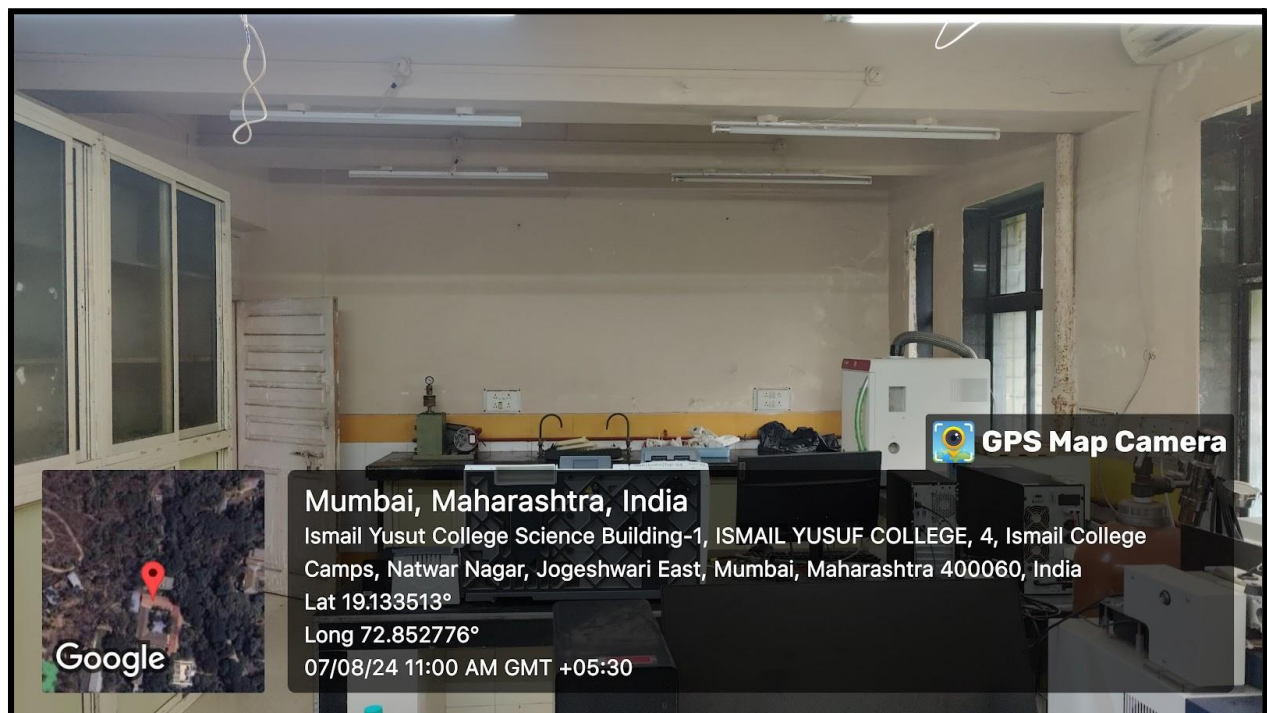


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INSTRUMENT ROOM B



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Year : 2016-2017

Sr No.	Name of instrument	Model No.	Year of purchase	Price	Unit
1	Digital weighing balance	1180/BRA	01-0-2016	32,150	01
2	Digital weighing balance	1921/at	02-04-2016	21,250	01
3	Digital Colorimeter	1180/ERA	01-01-2016	9,850	01
4	Digital Conductivity meter	1180/ERA	01-01-2016	34,300	02
5	Digital pH meter	1180/ERA	2016	26,400	02
6	Digital microprocessor based pH / LCD display	1922	02-04-2016	24,122	02
7	Digital Potentiometer	1922/02/0416	02-04-2016	14,100	02
8	Water distillation plant		2017		01
9	Refrigerator (L.G Double door)	GL 1302 RPZL DPDC/2016-17	February 2017		01
10	Benchtop NMR	Lab India	2017-2018	6,46,05,00,200	01


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Year : 2018-2019

1	Digital weighing balance	Bill no. 8098 DPDC GBM	20-07-2018 22-02-2019	40,887/Each	02
2	Balance Redeability- 1 mg	ERA GBM Bill No. 178 DPDC	2019	75,520	02
3	Digital Precision Balance	Invoice No. GBM Bill No.178 DPDC	26-02-2019	31,080	01
4	Digital Photoelectric colorimeter		26-08-2019	23,994	02
5	Conductivity meter	Benchtop	09-02-2018	69650	01
6	Digital Potentiometer	150 perfect interprizes 151 perfect interprizes	23-08-2018 23-08-2018	15,499 14,999	01 01
7	Digital Shaker	Bill No. 09708	09-02-2018	74,840	01
8	Electric Oven Temperature Control	Bill No. 09714	09-02-2018	42,305	01
9	FTIR	Lab India	09-02-2018	27,61,200	01


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10	Magnetic Stirrer with hot plate	DPDC	2019	25,345	01
11	Magnetic Stirrer Prism automation	DPDC	2019	49,461	01
12	Magnetic Stirrer	ESAW	11-12-2019	11,850	02

Year : 2020-2021

1	Digital pH meter	2470	30-12-2020	65,800	02
2	Di-probe GCMS	1029/20-21	2020	1,38,600	01
3	TG-DTA	1029/2020-21	30-12-2020	47,93,750	01


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Criterion IV: List of Equipments purchased

Year : 2022-2023

Sr No.	Name of instrument	Model No.	Year of purchase	Price	Unit
1	Weighing Balance	GTS-0/2022/Dec AAO/05387	14-03-2023	33,630	01
2	Conductivity meter Eutech ECCON70035	GTS-0/2022/Dec AAO/05387	07-12-2022	74,399	01
3	Digital pH meter (ECPHTUTOR)	GNS-0/2022/Dec AAO/05387	13-03-2023	92,040	04
4	Potentiometer	GTS-0/2022/Dec AAO/05387 II : 048	07-12-2022 13-03-2023	70,800	02
5	Hot Plate	GTS-0/2022/Dec AAO/05387	07-12-2022	8,850	01
6	Ice making machine	GTS-0/2022/Dec AAO/0538	07-12-2022	96,760	01
7	Differential Scanning Calorimeter (DSC)	MLIG22TI411704	24-03-2022	54,00,000	01

8	Double beam Raman spectrometer	GTS-0/2022/Dec AAO/05387 Inv.22-23/2376	07-12-2022	86,00,000	01
9	Microwave Oven	GTS-0/2022/Dec 104/21/02/23	07-12-2022	9,853	01
10	Refrigerator	Gts-0/2022/Dec AAC/05387	07-12-2022	49,560	01
11	Rotary Evaporater	GTS/0/2022/Dec AAO/05387 Invoice/22-23- 2568	07-12-2022	9,93,167	01

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Department of Chemistry Instrument List

Sr. No.	Instrument	Number in Stock Book	Year of Purchase	Price
1	Analytical Weighing Balance	10 +01		
2	Benchtop NMR	01		
3	Centrifuge Machine	02		
4	Colorimeter	04 +02		
5	Centrifuge Machine	02		
6	Computer	10 +2		
7	Conductivity meter	05 +01		
8	Crompton Heavy duty fan	04		
9	Cupboards	12+4 new		
10	Dehumidifier	01		
11	Digital Flame Photometer	01		
12	Digital pH meter	15		
13	Digital Potentiometer	11		
14	Digital Shaker	01		
15	Digital Turbidometer	01		
16	Deep Freeze	01		
17	Electric Oven Temperature Control	02		
18	FT-IR	02		
19	Heating Mantle	04		
20	Heavy Duty Voltage stabilizer	01		
21	Hot Plate	03		
22	Ice Making Machine	01		
23	Incinerator	13		
24	Industrial Exhaust Fan	00		
25	KBR Press	01		
26	Laptop	01		
27	Magnetic Stirrer	13		
28	Melting Point Apparatus	02		
29	Microwave Oven	02		
30	Muffle Furnace	01		
31	Oil Bath	02		
32	UPS	03		
33	Overhead Projector	04		
34	Platinum Crucible	02+01(lid)		
35	Potentiometric Titrator (Karl Fischer)	01		
36	Refrigerator	03		
37	Rotary Evaporator	01		
38	Ultrasonic Cleaner	02		
39	UV Cabinet	02		
40	UV Visible Spectrophotometer	01		
41	Vacuum Pump	05		
42	Vacuum cleaner	01		


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34	Wall Mounting Screen	01		
35	Water Bath	03		
36	Water Demineralising Plant	01		
37	Water distillation Plant	02		
38	Printer	07		
39	GCMS with Cylinder	01		
40	Quartz Double Distillation	02		
42	Di-Probe	01		
43	IR Detector	01		
44	TGDTA	01		
45	DSC	01		
46	Parallel Microwave Synthesizer	01		
47	Double Beam Raman Spectrometer	01		

(Department of Chemistry)


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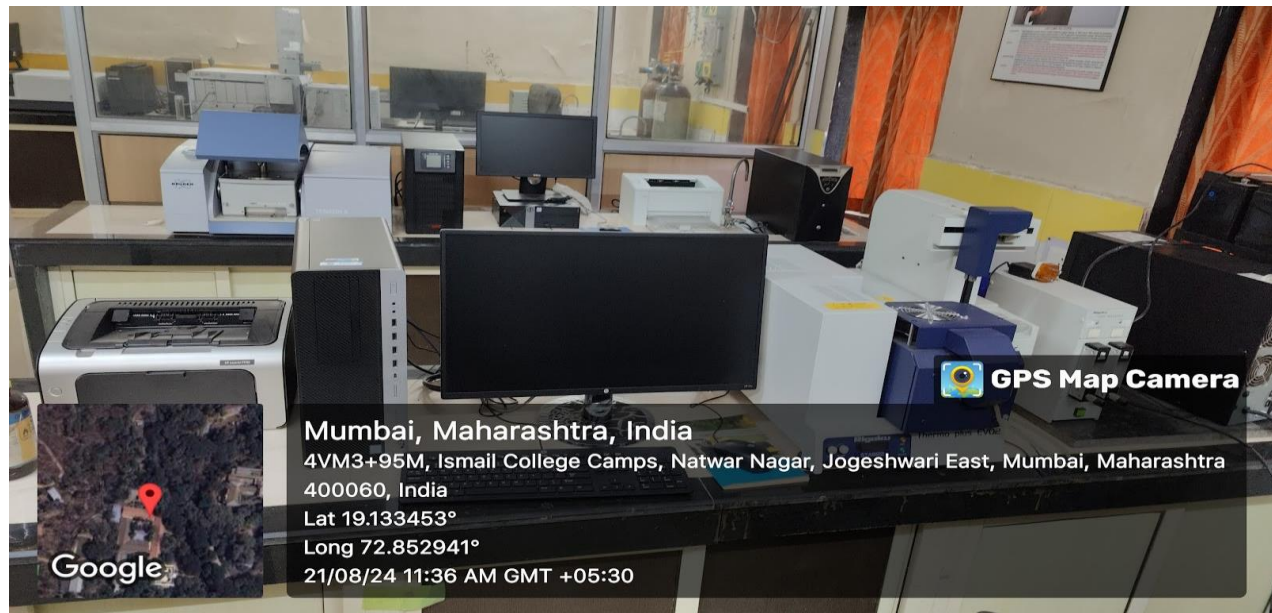
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GC-MS



TG-DTA

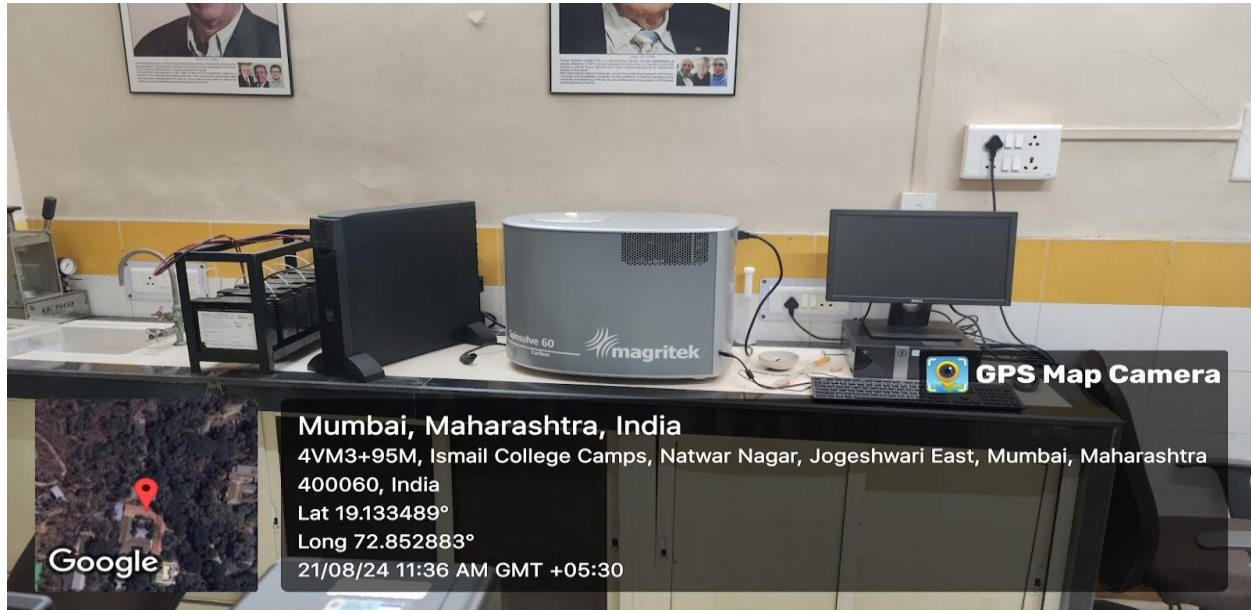
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NMR



FTIR

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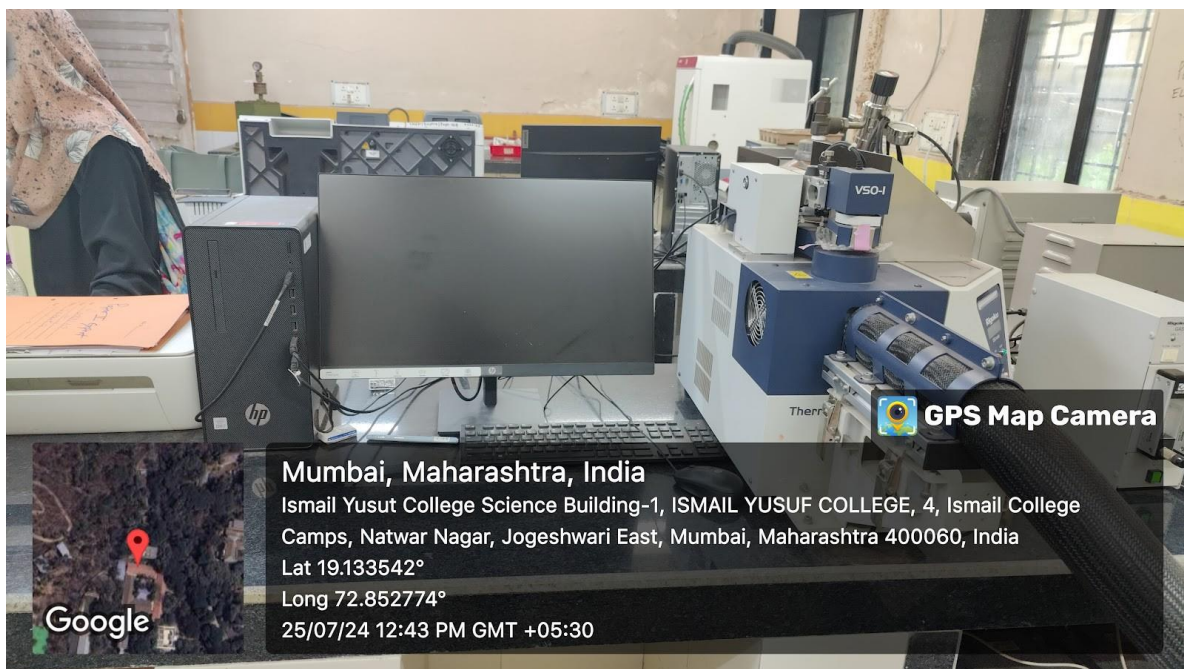
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UV VISIBLE SPECTROSCOPY



DSC

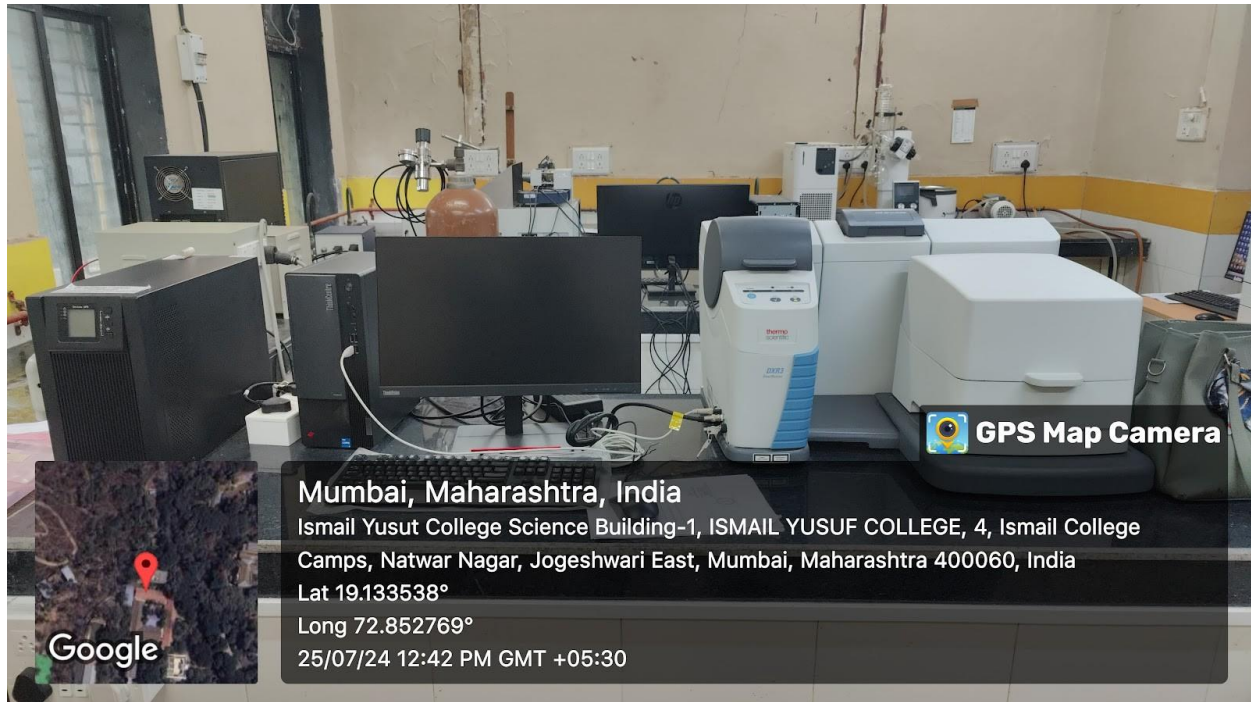
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Camps, Natwar Nagar, Jogeshwari East, Mumbai, Maharashtra 400060, India

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Long 72.852769°

25/07/24 12:42 PM GMT +05:30

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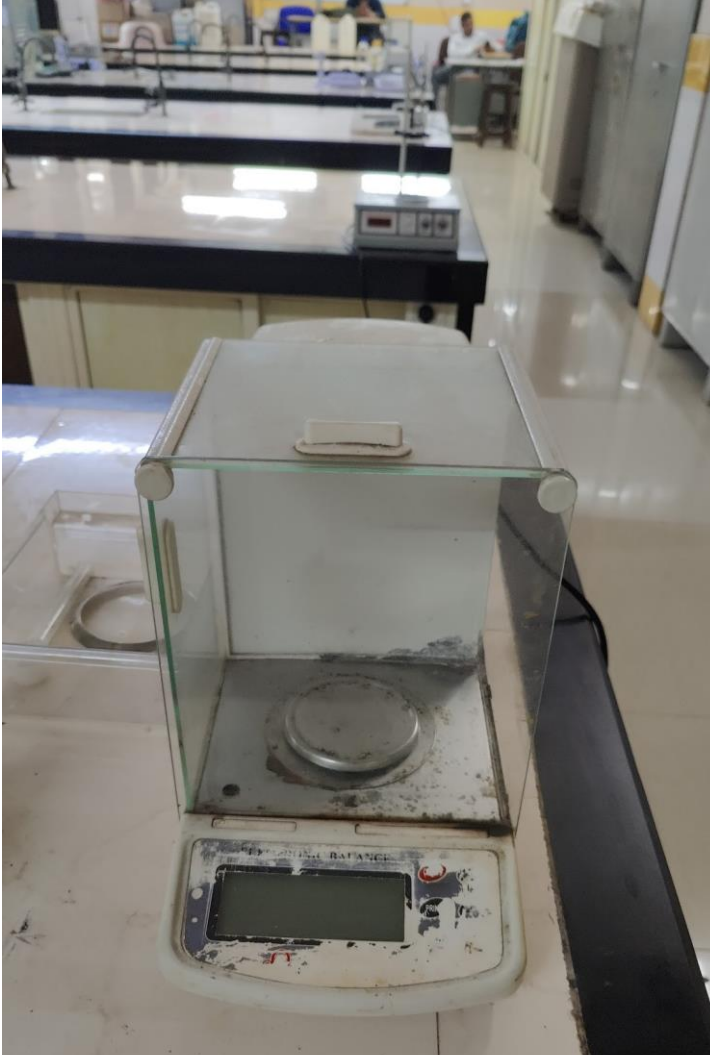

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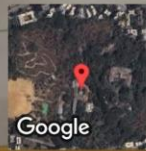
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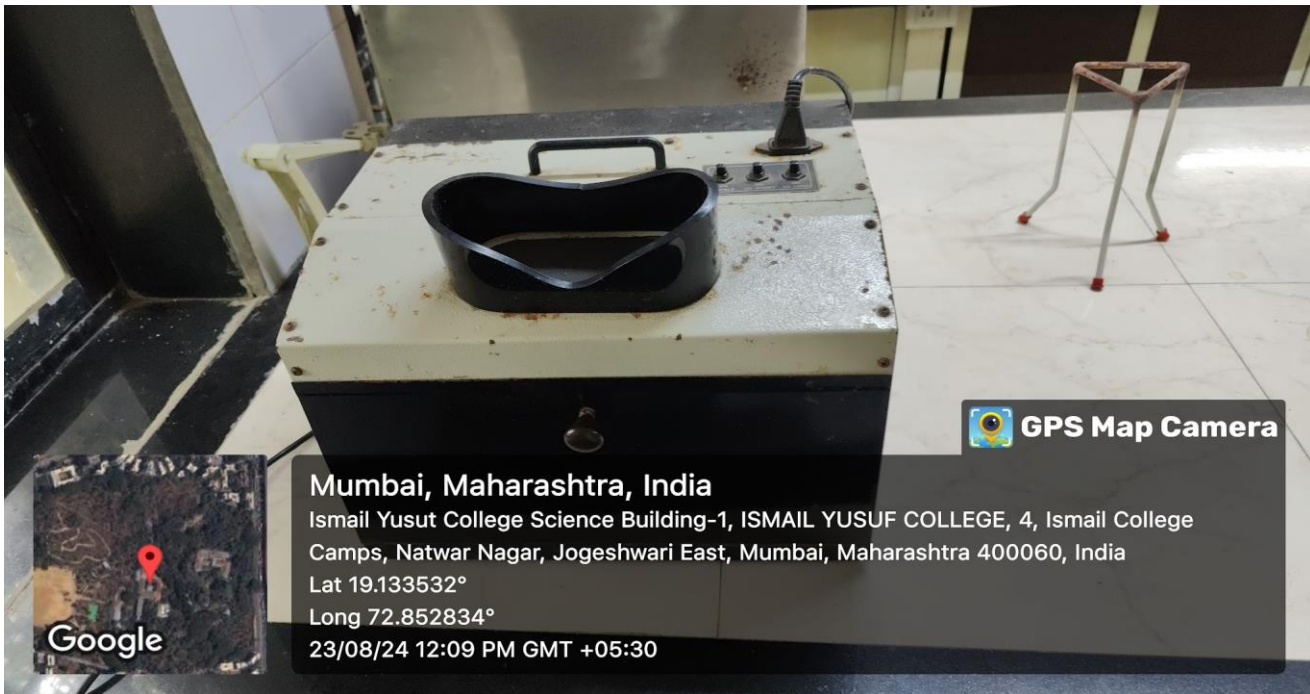

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Detailed Description and Specifications of Laboratory Instruments

Weighing Balance

Model Number: GTS-0/2022/Dec AAO/05387

Description: A high-precision balance designed for accurate measurement of sample weights.

Specifications:

- **Capacity:** Up to 200g (varies by model)
- **Readability:** 0.1 mg
- **Calibration:** Internal/External
- **Display:** Digital with backlight
- **Tare Range:** Full capacity
- **Pan Size:** Stainless steel, typically 80-100 mm in diameter
- **Operating Temperature:** 10-30°C
- **Power Supply:** AC adapter

Conductivity Meter Edutech ECCON70035


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Description: A portable conductivity meter used for measuring the electrical conductivity of a solution.

Specifications:

- **Conductivity Range: 0 to 200 mS/cm**
- **Resolution: 0.01 μ S/cm**
- **Accuracy: $\pm 1\%$ of reading**
- **Temperature Compensation: Automatic from 0 to 100°C**
- **Display: LCD with backlight**
- **Calibration: Automatic, 1 to 5 points**
- **Power Supply: Battery or AC adapter**

Digital pH Meter (ECPHTUTOR)

Model Number: GNS-0/2022/Dec AAO/05387

Description: A digital pH meter used to measure the acidity or alkalinity of a solution.

Specifications:

- **pH Range: 0 to 14 pH**
- **Resolution: 0.01 pH**
- **Accuracy: ± 0.01 pH**
- **Temperature Compensation: Automatic, typically 0 to 100°C**
- **Calibration: Automatic, 3 points**
- **Display: Digital LCD with backlight**
- **Electrode: Glass, replaceable**
- **Power Supply: Battery or AC adapter**

Potentiometer


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Description: A precision instrument used to measure the potential (voltage) of an electrical circuit.

Specifications:

- **Voltage Range: 0 to 1.5 V**
- **Sensitivity: 0.1 mV**
- **Accuracy: $\pm 0.1\%$ of full scale**
- **Calibration: Manual**
- **Display: Analog/Digital**

- **Power Supply: Battery-operated or AC adapter**

Hot Plate

Model Number: GTS-0/2022/Dec AAO/05387

Description: A laboratory hot plate used to uniformly heat samples.

Specifications:

- **Surface Material: Ceramic or aluminum**
- **Temperature Range: Up to 350°C**
- **Heating Capacity: 500W to 1000W**
- **Temperature Control: Digital/Analog**
- **Plate Size: Typically 150x150 mm**
- **Safety Features: Over-temperature protection**

- **Power Supply: AC 220V**

Ice Making Machine

Model Number: GTS-0/2022/Dec AAO/0538


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Description: A machine used to produce ice, typically in laboratory settings for cooling samples.

Specifications:

- Ice Production Rate: Up to 25 kg/24 hrs
- Ice Storage Capacity: 10 kg
- Ice Shape: Cubes or flakes
- Water Supply: Automatic
- Power Supply: AC 220V, 50Hz

- Cooling System: Air-cooled or water-cooled

**Differential Scanning Calorimeter
(DSC)**

Model Number: MLIG22TI411704

Description: An analytical instrument that measures the heat flow associated with phase transitions in materials.

Specifications:

- Temperature Range: -170°C to 725°C
- Heating/Cooling Rate: 0.1°C to 500°C/min
- Temperature Accuracy: $\pm 0.1^\circ\text{C}$
- Heat Flow Sensitivity: 0.2 μW
- Sample Capacity: Up to 10 mg
- Data Output: Digital with software integration

- Power Supply: AC 220V

Model Number: GTS-0/2022/Dec AAO/05387 Inv.22-23/2376

Double Beam Raman Spectrometer


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Description: A spectrometer used for Raman spectroscopy, providing molecular vibrational information.

Specifications:

- **Laser Wavelength: 532 nm (other options available)**
- **Spectral Range: 100 cm⁻¹ to 4000 cm⁻¹**
- **Resolution: 1 cm⁻¹**
- **Detector: CCD, TE-cooled**
- **Calibration: Automatic using reference samples**
- **Software: Advanced data analysis capabilities**

- **Power Supply: AC 220V**

Microwave Oven

Model Number: GTS-0/2022/Dec 104/21/02/23

Description: A laboratory-grade microwave oven used for rapid heating and drying of samples.

Specifications:

- **Power Output: 500W to 1000W**
- **Temperature Control: Up to 250°C**
- **Timer: Digital, up to 99 minutes**
- **Chamber Size: Typically 20-30 liters**
- **Safety Features: Door interlock, over-temperature protection**

- **Power Supply: AC 220V**


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Refrigerator

Model Number: GTS-0/2022/Dec AAC/05387

Description: A laboratory refrigerator used to store temperature-sensitive samples and reagents.

Specifications:

- **Temperature Range:** 2°C to 8°C
- **Capacity:** 100-500 liters
- **Shelving:** Adjustable, typically 4-8 shelves
- **Defrost:** Automatic

- **Power Supply:** AC 220V

Rotary Evaporator

Model Number: GTS-0/2022/Dec AAO/05387 Invoice/22-23-2568

Description: An instrument used to efficiently remove solvents from samples by evaporation under reduced pressure.

Specifications:

- **Rotation Speed:** 20-280 RPM
- **Temperature Range:** Up to 180°C
- **Vacuum Range:** 0 to 0.1 mbar
- **Condensation Surface:** Typically 1200 cm²
- **Flask Capacity:** 50 mL to 3L
- **Safety Features:** Automatic lift, over-temperature protection

- **Power Supply:** AC 220V


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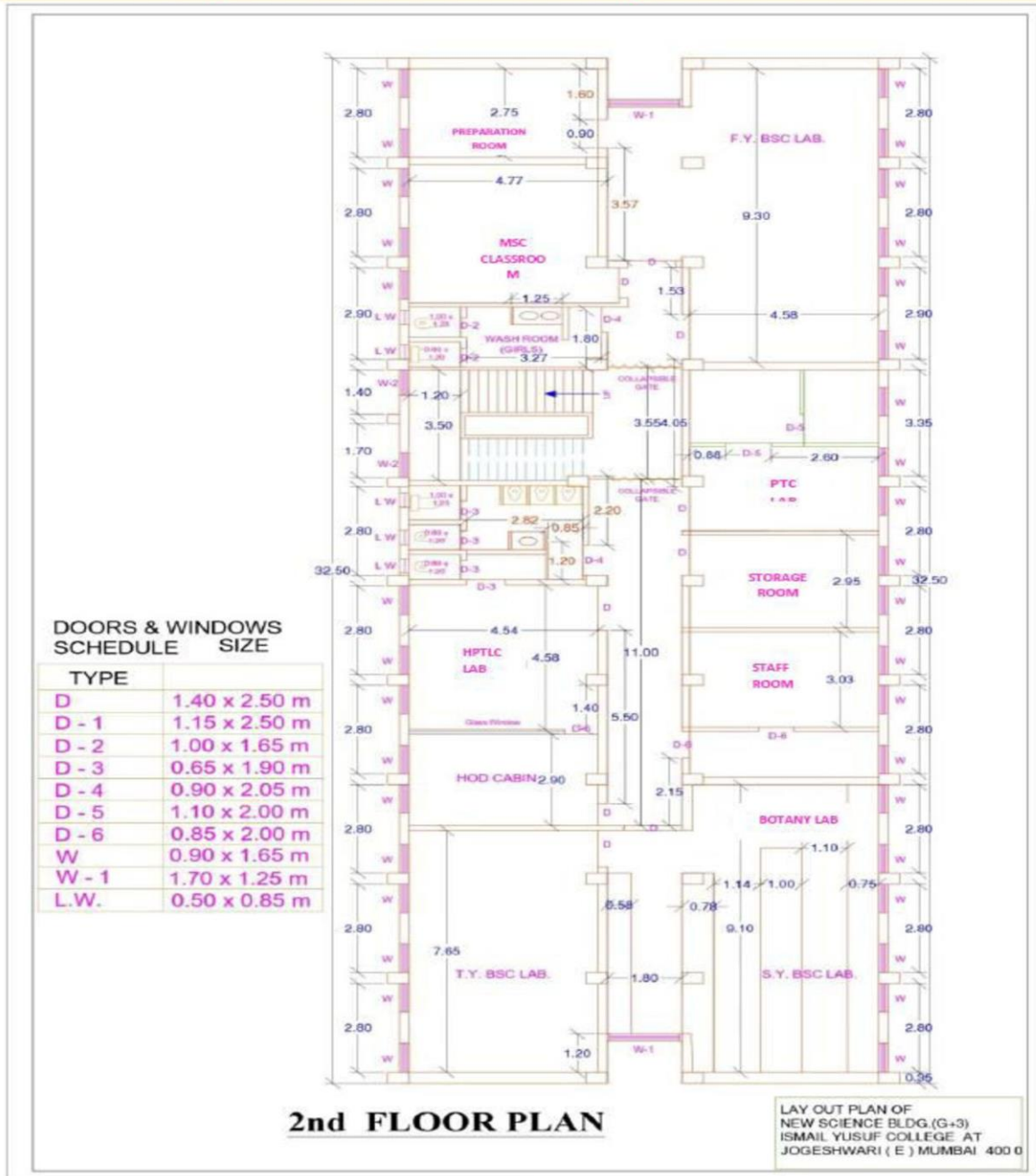


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Department of Botany Floor Plan



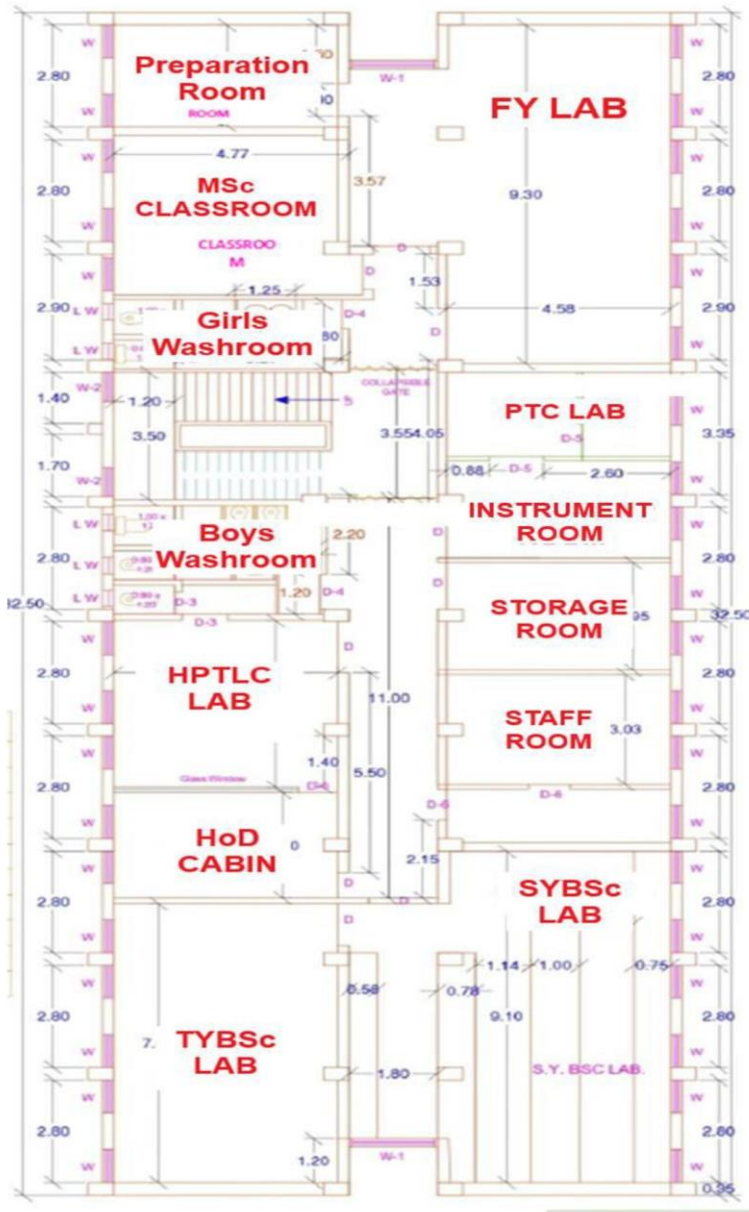
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Department of Botany



1. FYBSc Lab
2. Preparation Room
3. MSc Classroom
4. PTC lab
5. Instrument Room
6. Storage Room
7. Staff Room
8. HPTLC Lab
9. HoD Cabin
10. SYBSc Lab
11. TYBSc Lab
12. Girls Washroom
13. Boys Washroom

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1. FYBSc Lab

Room type	Laboratory
Room number	201
No of Tables and Chairs	2 Tables , 50 stools and 4 chairs
Seating Capacity	50
Area	49.64 Sq Mt
Teaching Aids	2 Blackboards
No. of Fans	4 Fans
No. of Cupboards	2 Cupboards
No. of Lights	9 Tube-lights
Fire Extinguishers	2 Fire Extinguishers
No. of Cameras	3 Cameras
No. of Doors	2 Doors
No. of Windows	7 Windows

2. Preparation Room

Room type	Laboratory
Room number	202
No of Tables and Chairs	1 table 3 chairs
Seating Capacity	5
Area	13.12 Sq.Mt
Teaching Aids	-
No. of Fans	1 Fan
No. of Cupboards	2 Cupboards 2 Shelves
No. of Lights	1 Tube-light
Fire Extinguishers	-
No. of Cameras	-
No. of Doors	1 Door
No. of Windows	2 Windows

3. MSc Classroom

Room type	Classroom
Room number	203
No of Tables and Chairs	12 benches
Seating Capacity	25
Area	28 Sq.Mt
Teaching Aids	1 Blackboard 1 Whiteboard
No. of Fans	2 Fans
No. of Cupboards	-
No. of Lights	2 Tube-lights


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4. Instrument Room

Room type	Laboratory
Room number	205
No of Tables and Chairs	3 Chairs
Seating Capacity	5
Area	12.15 Sq.Mt.
Teaching Aids	
No. of Fans	1 Fan
No. of Cupboards	2 Cupboards
No. of Lights	2 Tube-lights
Fire Extinguishers	
No. of Cameras	2 Cameras
No. of Doors	1 Door
No. of Windows	3 Windows


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No. of Lights	2 Tube-lights
Fire Extinguishers	-
No. of Cameras	-
No. of Doors	1 Door
No. of Windows	2 Windows

6. Storage Room

7. Staff Room

8. HPTLC Lab

9. HoD Cabin

Room type	Staff room
Room number	207
No of Tables and Chairs	3 Tables 5 chairs
Seating Capacity	6
Area	22.30 Sq.Mt.
Teaching Aids	
No. of Fans	2 Fans 1 Air Conditioner
No. of Cupboards	
No. of Lights	2 Tube-lights
Fire Extinguishers	
No. of Cameras	
No. of Doors	1 Door
No. of Windows	2 Windows

Room type	Laboratory
Room number	208
No of Tables and Chairs	5 Platforms
Seating Capacity	15
Area	20.79 Sq.Mt.
Teaching Aids	-
No. of Fans	4 Fans 2 Air Conditioners
No. of Cupboards	
No. of Lights	9 lights
Fire Extinguishers	
No. of Cameras	2 Camera
No. of Doors	1 Door
No. of Windows	5 Windows


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10. SYBSc Lab

Room type	Staff Cabin
Room number	209
No of Tables and Chairs	1 Table 3 Chairs
Seating Capacity	5
Area	13.16 Sq.Mt.
Teaching Aids	
No. of Fans	1 Fan 1 Air Conditioner
No. of Cupboards	3 Shelves
No. of Lights	1 Tube-light
Fire Extinguishers	
No. of Cameras	
No. of Doors	1
No. of Windows	2

Room type	Laboratory
Room number	210
No of Tables and Chairs	1 Tables, 4 Platforms , 40 stools and 4 chairs
Seating Capacity	40
Area	53.29 Sq.Mt.
Teaching Aids	1-Smart Board 1 Blackboard
No. of Fans	6 Fans
No. of Cupboards	2 Cupboards
No. of Lights	12 Tube-lights
Fire Extinguishers	1 Fire Extinguisher
No. of Cameras	4 Cameras
No. of Doors	2 Doors
No. of Windows	7 Windows

11. TYBSc Lab

Room type	Laboratory
Room number	211
No of Tables and Chairs	6 Platforms, 30 stools
Seating Capacity	30
Area	34.86 Sq.Mt.
Teaching Aids	1-Smart Board 1-Blackboard
No. of Fans	4 Fan
No. of Cupboards	
No. of Lights	5 Tube-lights
Fire Extinguishers	
No. of Cameras	3 Cameras
No. of Doors	1 Door
No. of Windows	5 windows


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12. Girls washroom

Room type	Washrooms
Room number	
No of Tables and Chairs	1 Western 1 Indian Style seating
Seating Capacity	
Area	8.57 Sq.Mt.
Teaching Aids	
No. of Fans	2 Exhaust fans
No. of Cupboards	
No. of Lights	1 Tube light
Fire Extinguishers	
No. of Cameras	
No. of Doors	1 Main Door 2 Doors
No. of Windows	2 Windows

13. Boys washroom

Room type	Washroom
Room number	
No of Tables and Chairs	1 Western 1 Indian Style seating
Seating Capacity	
Area	13.36 Sq.Mt.
Teaching Aids	
No. of Fans	
No. of Cupboards	
No. of Lights	1 Tube-light
Fire Extinguishers	
No. of Cameras	
No. of Doors	1 Main door , 2 Doors
No. of Windows	2 Windows


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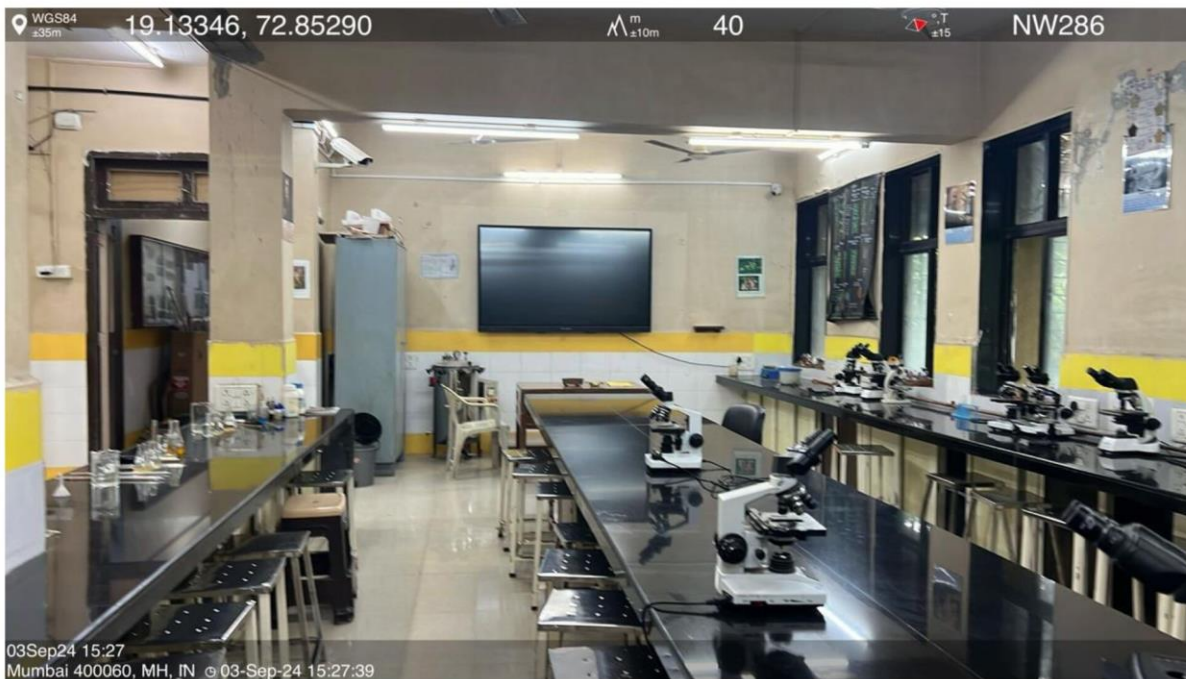
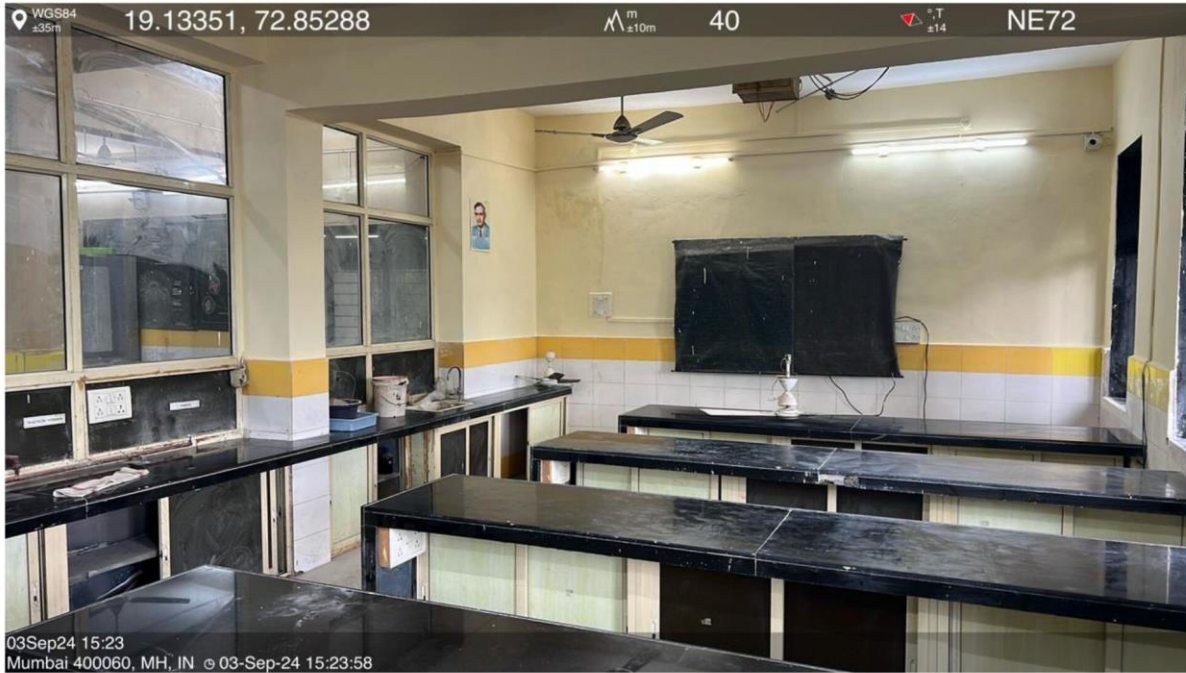
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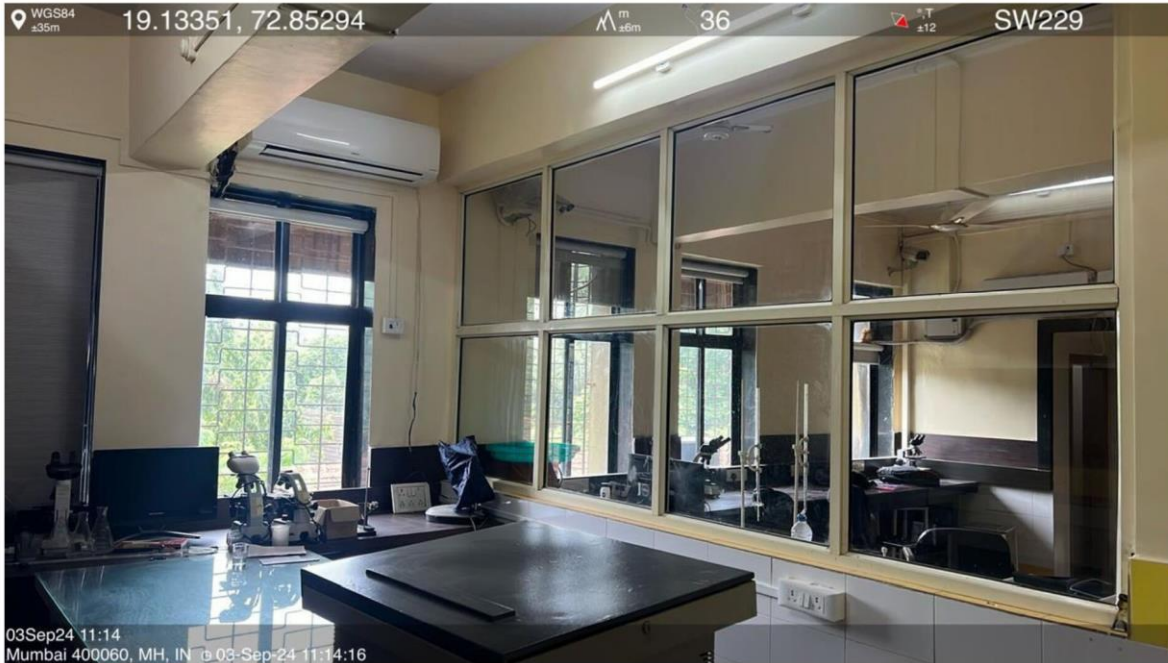
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DEPARTMENT OF ZOOLOGY

LABORATORY	MAIN LAB	SENIOR LAB
ROOM LOCATION	New Science building (Ground floor)	New Science building (Ground floor)
STUDENTS CAPACITY	100	70
AREA OF LABORATORY	2040sq ft	1156 sq ft
TEACHING AIDS	Black board - 01 Digital Board (Big Screen) - 01	Black board - 01 Digital Board (Small Screen) - 01
NO. OF FANS	12	07
NO. OF TUBE LIGHT	21	14
FIRE EXTINGUISHER	03	03
NO OF CAMERAS	06	06
NO. OF DOORS	01	01
NO. OF WINDOWS	03	03
NO. OF AC	00	00
NO. OF SITTING TABLES	120	80


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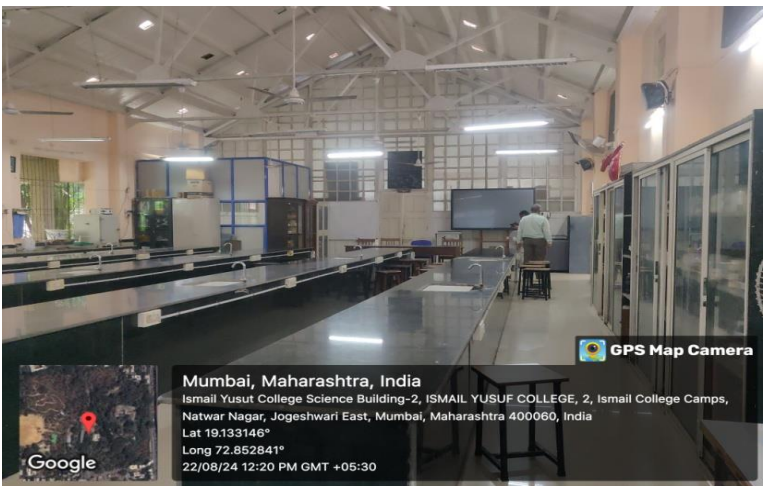
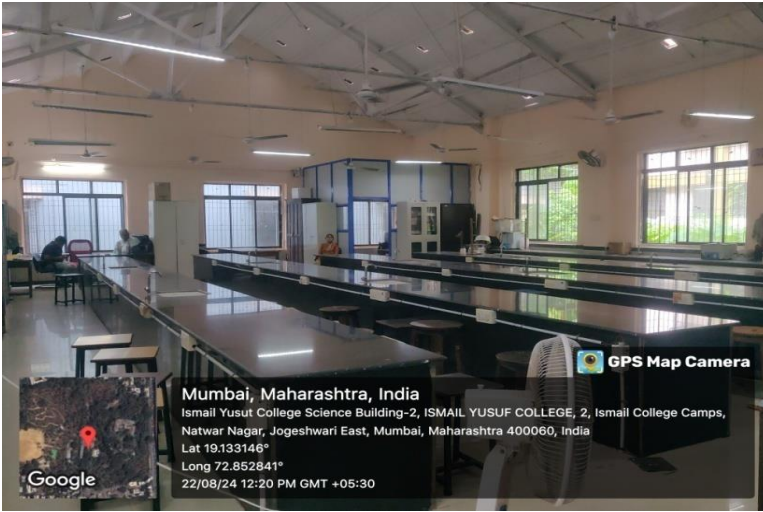


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MAIN LAB




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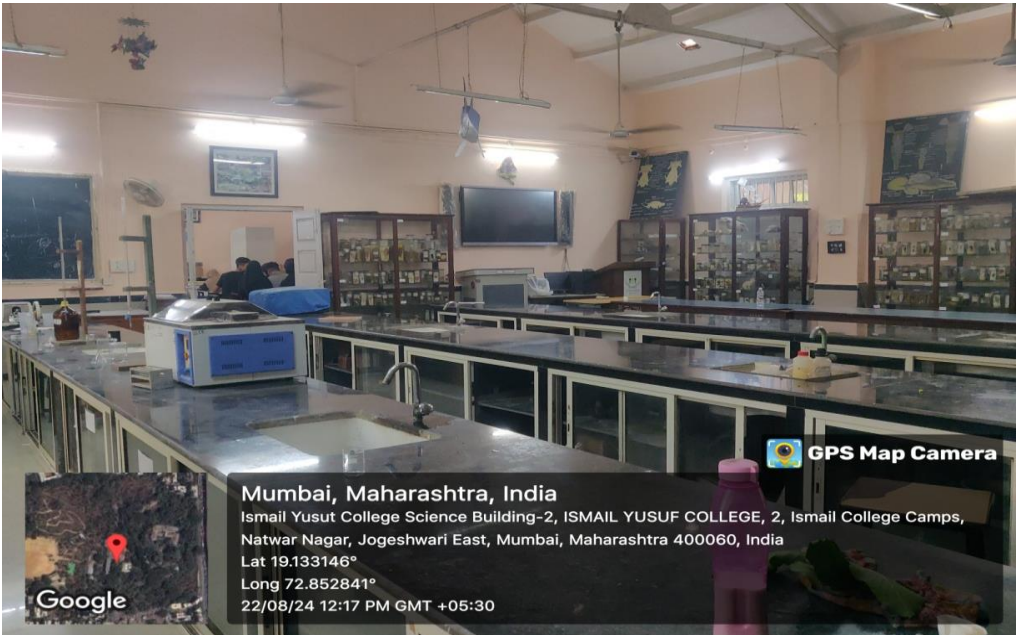
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Natwar Nagar, Jogeshwari East, Mumbai, Maharashtra 400060, India
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Long 72.852841°
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List of equipment's purchased during last five years

Sr. No.	Instrument Name	Date of Purchase	Number
1.	Monocular Microscope	19/02/2018	04
2.	Atomic Absorption Spectrophotometer (AAS) with gas cylinders	18/01/2019	01
3.	D.P.D.C. Weighing Balance	12/03/2019	01
4.	Advanced Research Digital Camera Microscope	19/03/2019	01
5.	Compound Microscopes	22/03/2019	50
6.	Automated Chemistry Analyser	15/07/2019	01
7.	Autoclave Vertical	15/07/2019	01
8.	Water Bath	18/09/2019 and 26/09/2019	02
9.	Incubator	26/09/2019	01
10.	TLC Plate Apparatus	27/09/2019	01
11.	Digital Colorimeter	17/10/2019	06
12.	Hot Plate (Stirring with digital display)	27/11/2019	01
13.	CHNS/O Analyser with 2 cylinders of gas	12/12/2019	01
14.	UV Chamber	17/02/2020	02
15.	pH Meter	30/12/2020 and 07/12/2022	04
16.	Micropipette D.P.D.C.	30/12/2020	01
17.	TOC Analyser model 1030D with cylinder	05/10/2021	01
18.	Auto Analyser D.P.D.C.	05/10/2021	01

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19.	UV Spectrophotometer	28/01/2022	01
20.	Laser gas cylinders (Oxygen, Nitrogen)	11/03/2022	02
21.	Microwave	07/12/2022	01
22.	Nitrogen Generator Evaporator	30/01/2023	01
23.	Lamps for Atomic Absorption Spectrophotometer (AAS) - Calcium, Molybdenum, Tin, Boron	30/01/2023	04
24.	Solid AA for Atomic Absorption Spectrophotometer (AAS)	14/02/2023	01
25.	Colony Counter Galaxy 230	2022-2023	01
26.	Digital Refractometer, ATAGO	2022-2023	01


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CHNS/O Analyser




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Atomic Absorption Spectrophotometer (AAS)



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TOC (Total Organic Carbon) Analyser



 **GPS Map Camera**



Google

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Colony Counter Galaxy 230




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Laboratory	Under-graduate	Post-graduate
ROOM LOCATION	Old Science building	NewScience building
STUDENT CAPACITY	80	10
AREA OF Laboratory	Main lab- 54 x 34 sq.feet Dark room (1) - 14 x 22 sq.feet Dark room(2) - 14 x 16 sq.feet Electronics instrumentation lab- 34 x 12 sq.feet	Main lab- 21 x 37 sq.feet Dark room - 14 x 8 sq.feet
TEACHING AIDS	Black board-1 Projector-1	Smart board-1
NO. OF FANS	16	10
NO. OF TUBELIGHT	39	18
FIRE EXTINGUISHER	0	0
NO. OF CAMERAS	04	02
NO. OF DOOR	02	01
NO. OF WINDOWS	08	09
NO. OF AC	0	04
NO. OF SITTING TABLES	50	10

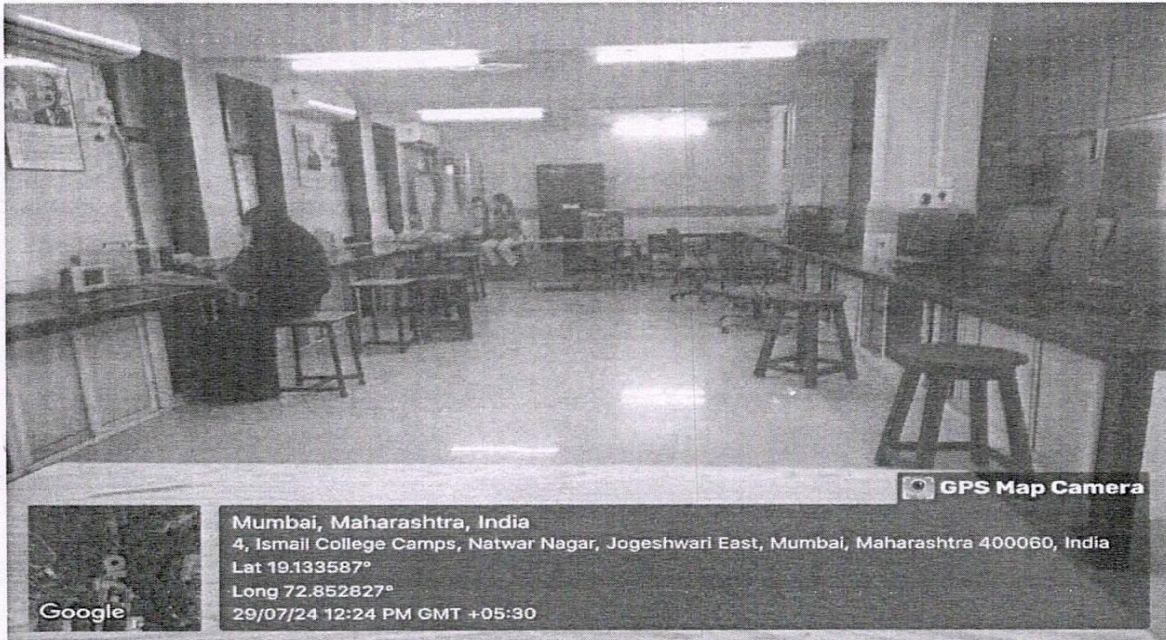

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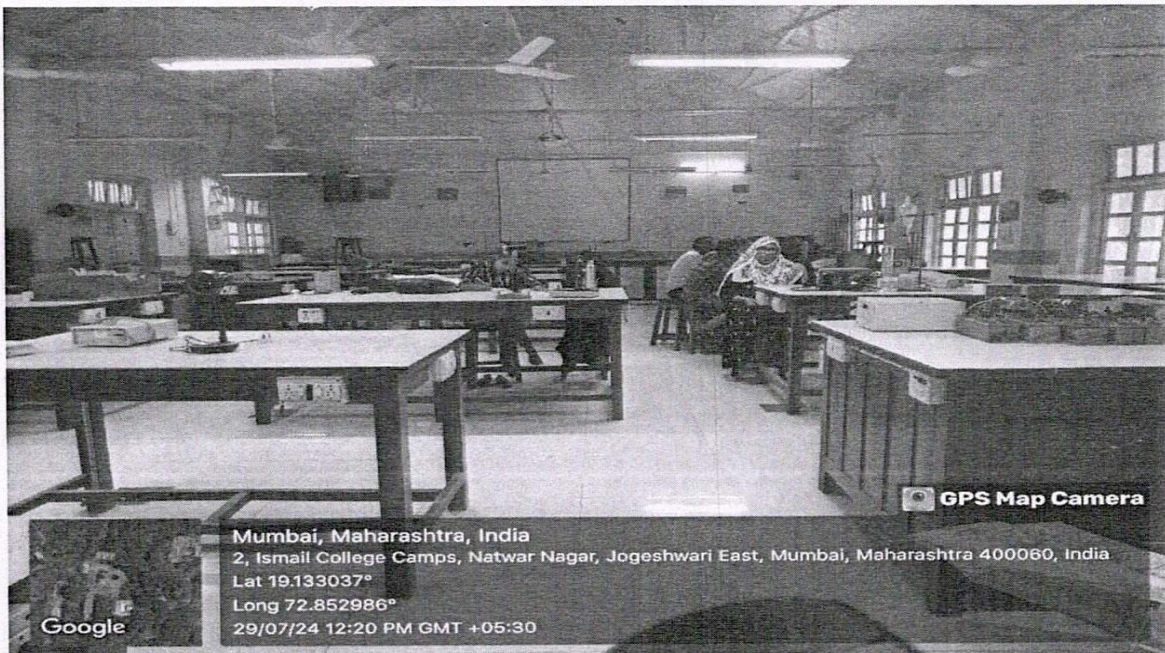
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POST GRADUATE LAB



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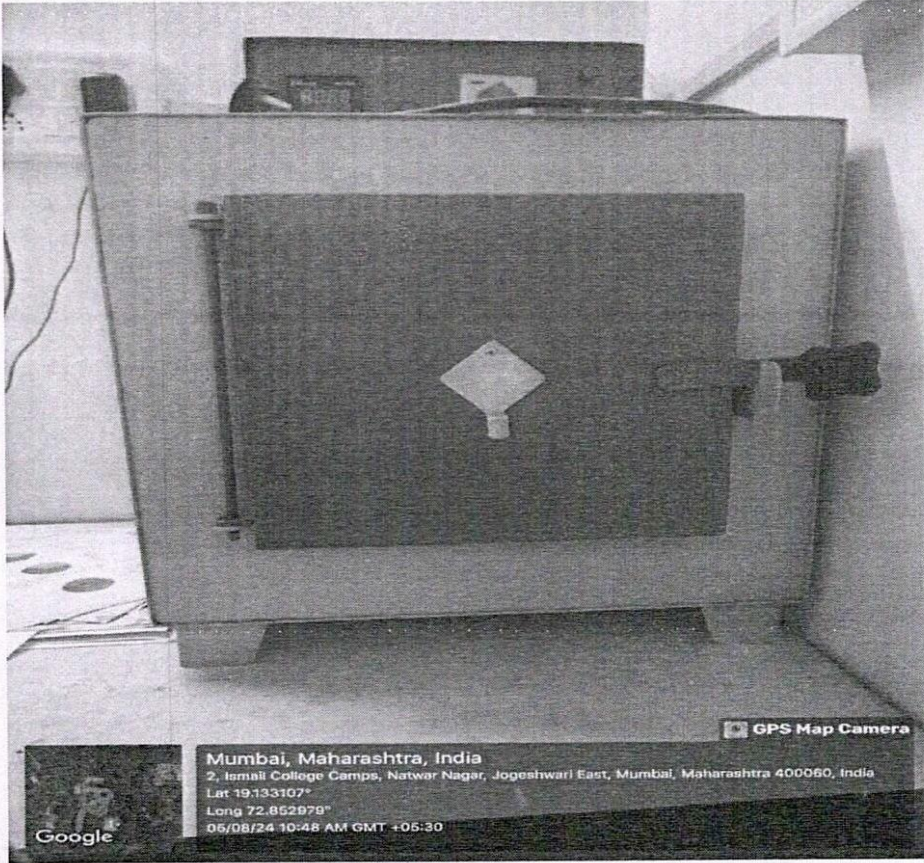
UNDER GRADUATE LAB



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Furnace


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Infrastructure available to students. Year wise what facilities added.

Facilities Name	Year	Number of system	Toal number of system Currently available
Projector	2012-2013	02	02
Printer	2017-2018	01	01
Computer System	2017-2018 2020-2021	09 04	13
Xerox Machine	2018-2019	01	01
CCTV	2018-2019 2020-2021	04 04	05
Digital Storage Oscilloscope	2018-2019	04	04
Digital Signal Generator	2018-2019	08	08
Dark Room	2018-2019	01	01
Optical Fiber Training Kit	2019-2020	01	01
Techno-E-Podium Smart Board	2021-2022	02	02
XRD	2020-2021	01	01
FTIR	2021-2022	01	01
Chemical Fume Hood	2021-2022	01	01
Muffle Furnance	2021-2022	01	01


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Internal Quality Assurance Cell

2019-2020

3. List Of Equipment's Purchased

Sr. no.	Details of equipment's	Total No. of system
1	Optical Fiber Training Kit	01

2019-2020

. List of infrastructure facilities in following format Sr.

Sr. No.	Location (Building)	Floor	Item	Number
1	Senior Lab	Ground	Optical fiber Training Kit	01


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Internal Quality Assurance Cell

2020-2021

2. List of computers and ICT enabled tools

Sr. no.	Details of computers and ICT enabled tools (LCD Projector, wi-fi router, etc.)	Total No. of system
1	Computers	04

3. List Of Equipment's Purchased

Sr. no.	Details of equipment's	Total No. of system
1	XRD	01


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2020-2021

. List of infrastructure facilities in following format Sr.

Sr. No.	Location (Building)	Floor	Item	Number
1	Senior Lab	Ground	Computer	04
2	Msc Lab	1st	XRD	01


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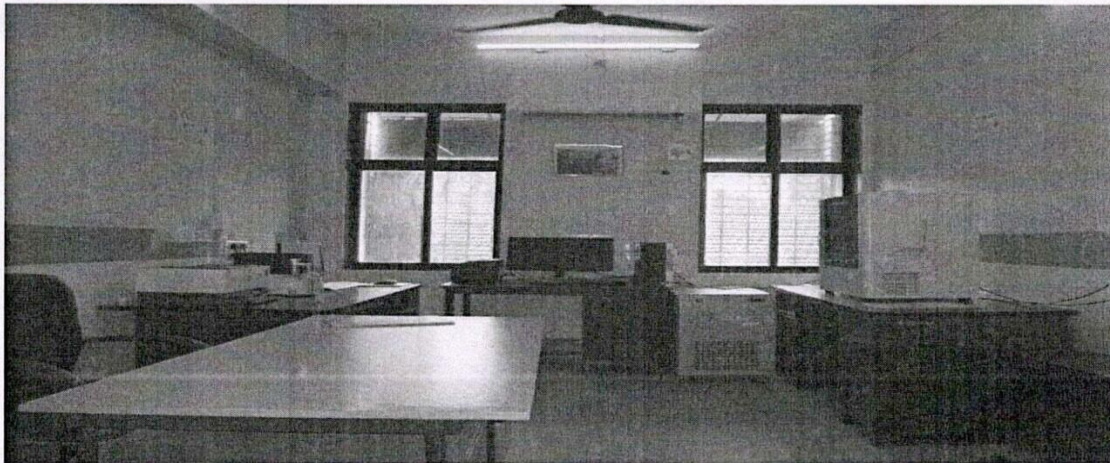
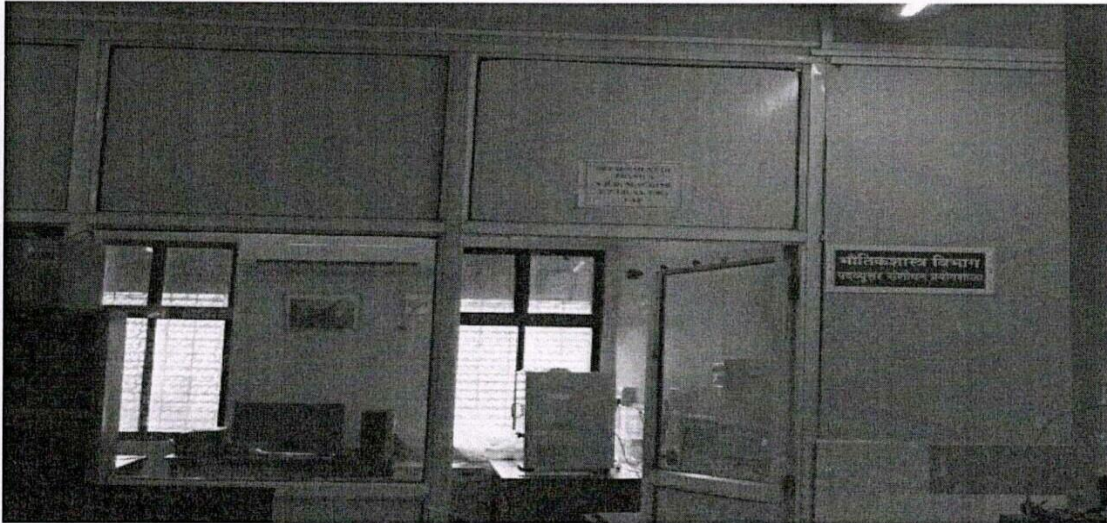


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FTIR AND XRD



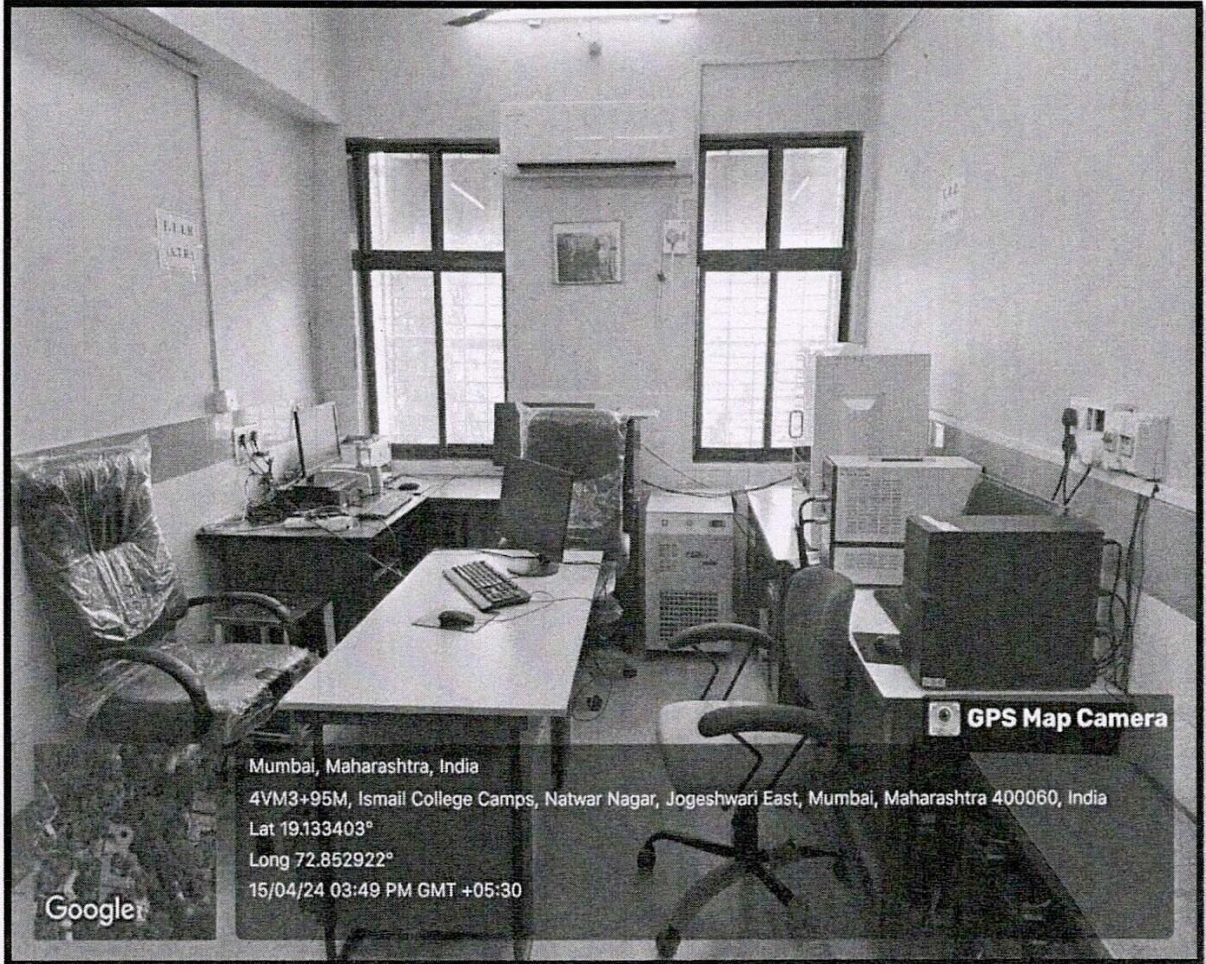

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Internal Quality Assurance Cell

2021-2022

2. List of computers and ICT enabled tools

Sr. no.	Details of computers and ICT enabled tools (LCD Projector, wi-fi router, etc.)	Total No. of system
1	Techno-E-Podium Smart Board (02)	02

3. List of equipment's purchased

Sr. no.	Details of equipment's	Total No. of system
1	ATR (FTIR)	01
2	Chemical Fume Hood	01
3	Muffle Furnance	01


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2021-2022

. List of infrastructure facilities in following format Sr.

Sr. No.	Location (Building)	Floor	Item	Number
1	Junior Lab	Ground	Techno-E-Podium Smart Board	01
2	Msc Lab	1st	Techno-E-Podium Smart Board	01
3	Msc Lab	1st	ATR	01
4	Msc Lab	1st	Chemical Fume Hood	01
5	Msc Lab	1st	Muffle Furnance	01


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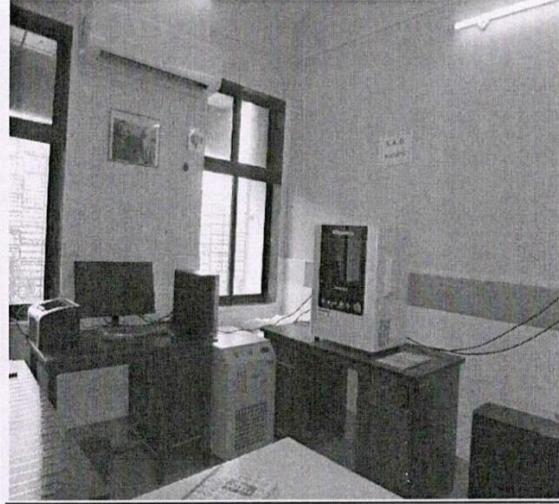


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FTIR AND XRD




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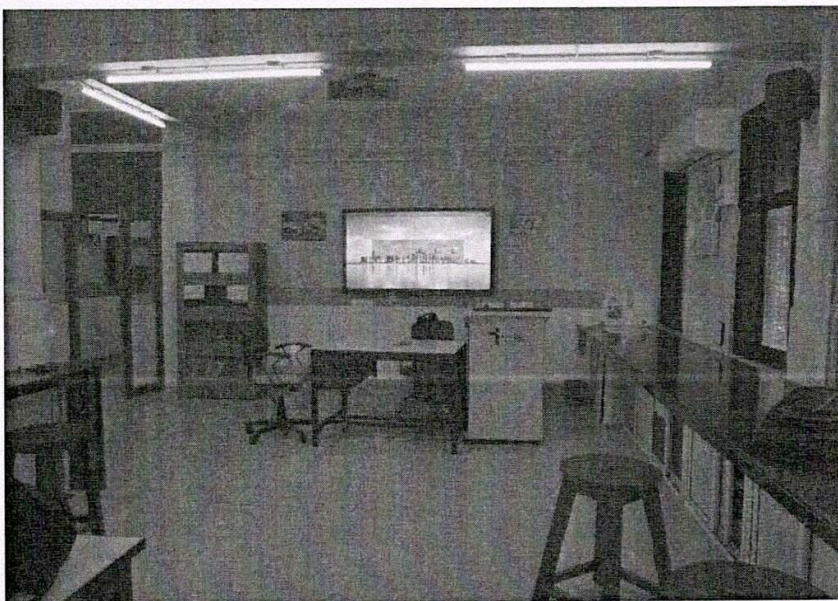
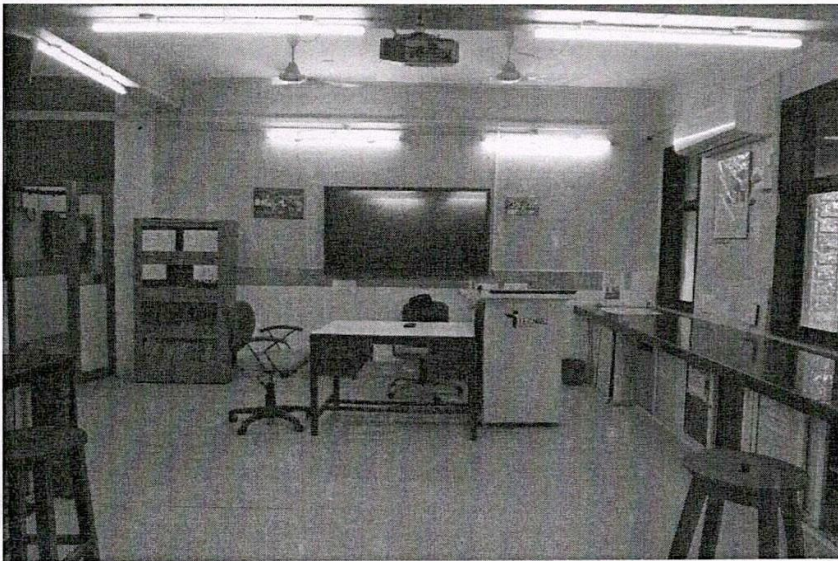


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TECHNO-E-PODIUM SMART BOARD AND SMART ROOMS:




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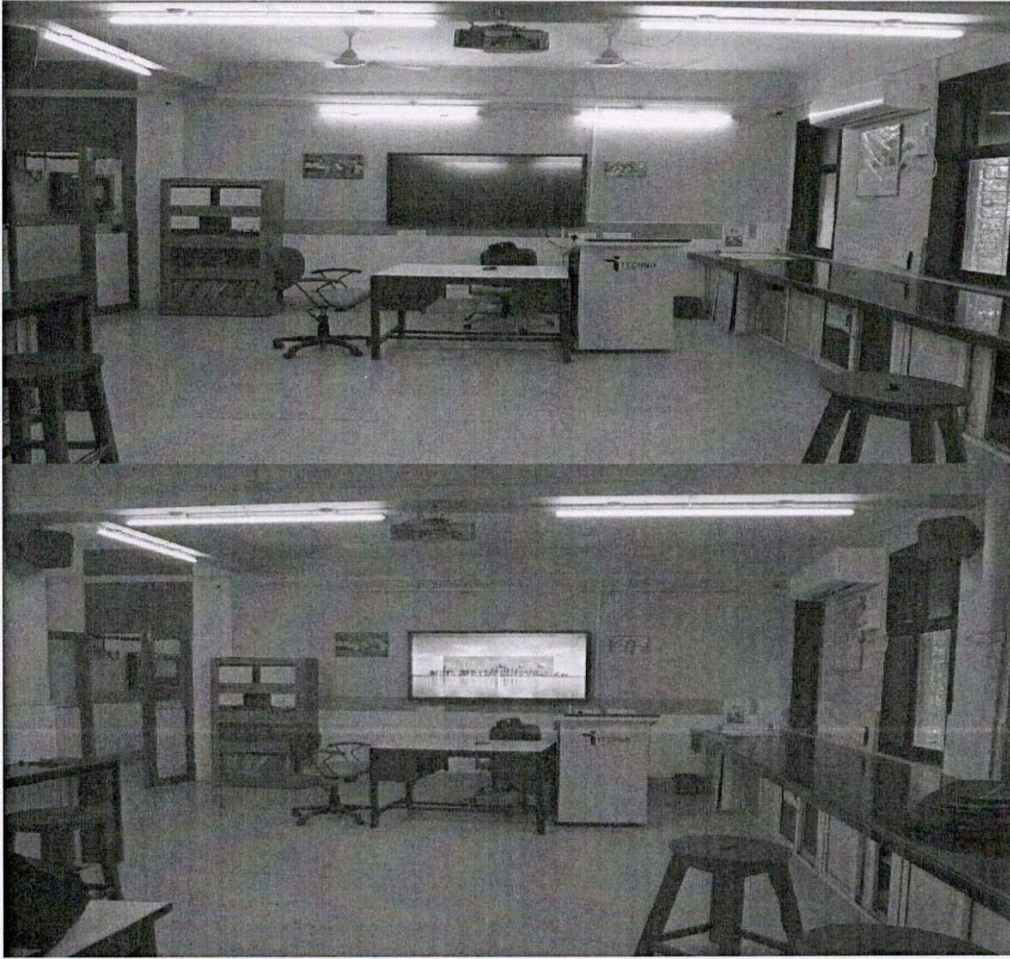
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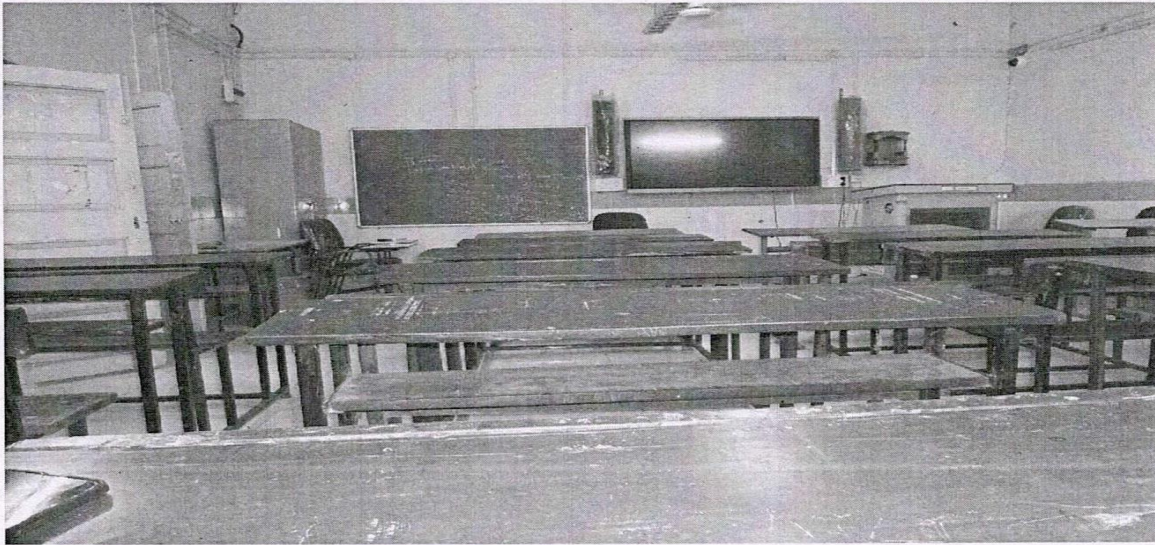
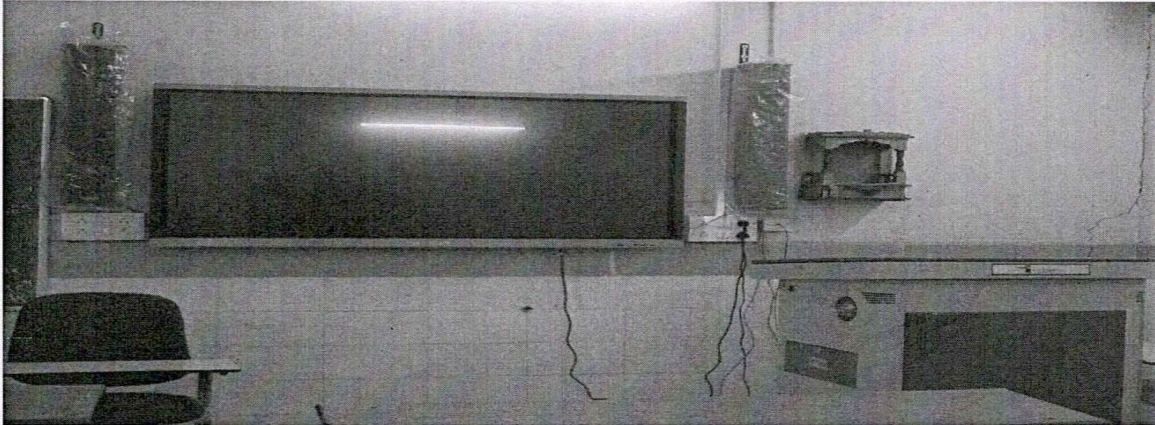


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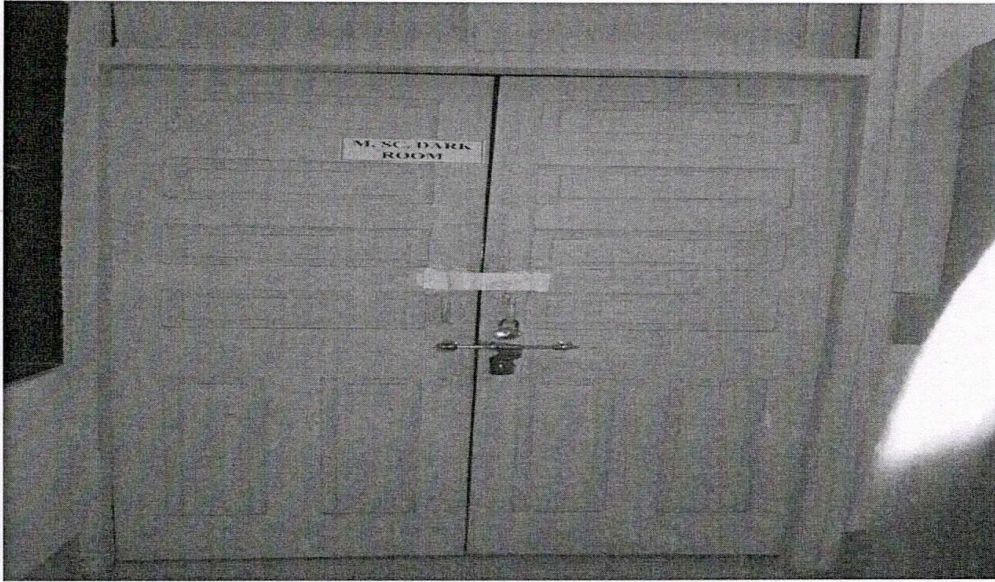


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DARK ROOM




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CHEMICAL FUME HOOD




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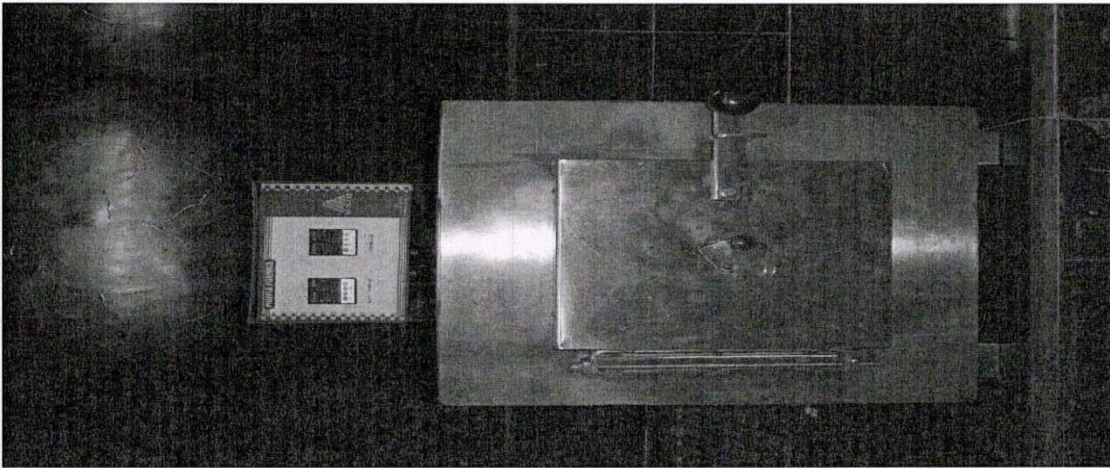


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MUFFLE FURNANCE AND XEROX MACHINE




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Internal Quality Assurance Cell

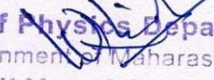
2022-2023

2. List of computers and ICT enabled tools

Sr. no.	Details of computers and ICT enabled tools (LCD Projector, wi-fi router, etc.)	Total No. of system
1	Computers	05

3. List Of Equipment's Purchased

Sr. no.	Details of equipment's	Total No. of system
1	Double distillation plant	01
2	Solar Simulator	01
3	Multi-channel Electrochemical Testing	01


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2022-2023

. List of infrastructure facilities in following format Sr.

Sr. No.	Location (Building)	Floor	Item	Number
1	Msc Lab	1st	Computers	05
2	Msc Lab	1st	Double Distillation Plant	01
3	Msc Lab	1st	Solar Simulator	01
4	Msc Lab	1st	Multi-channel Electrochemical Testing	01

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COMPUTER SYSTEM



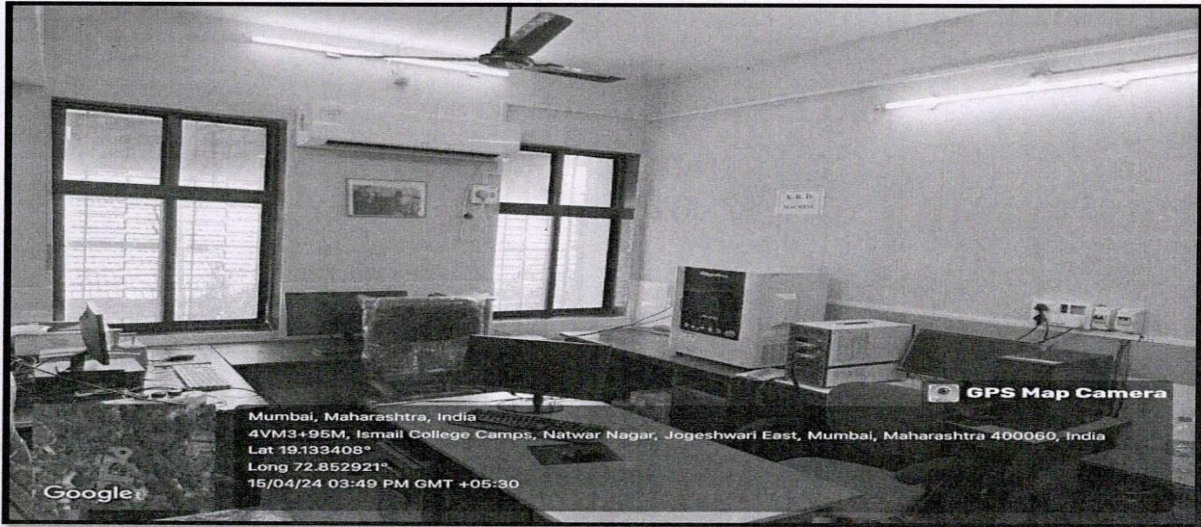

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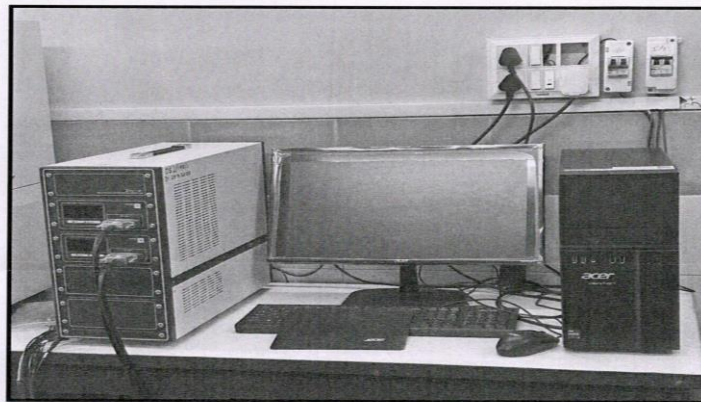
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Multi-channel Electrochemical Testing



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Double Distillation Plant



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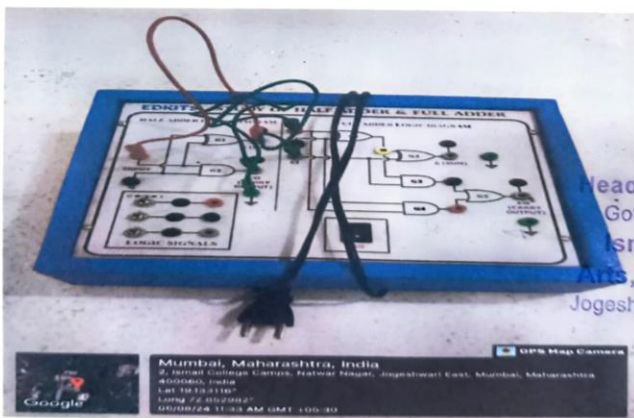
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Muffle Furnace



Half Adder and Full Adder Kit



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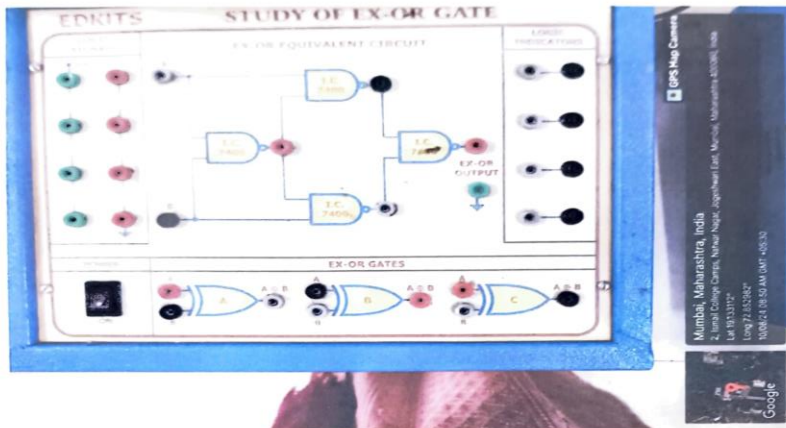


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Study of Gates



Logarithmic decrement



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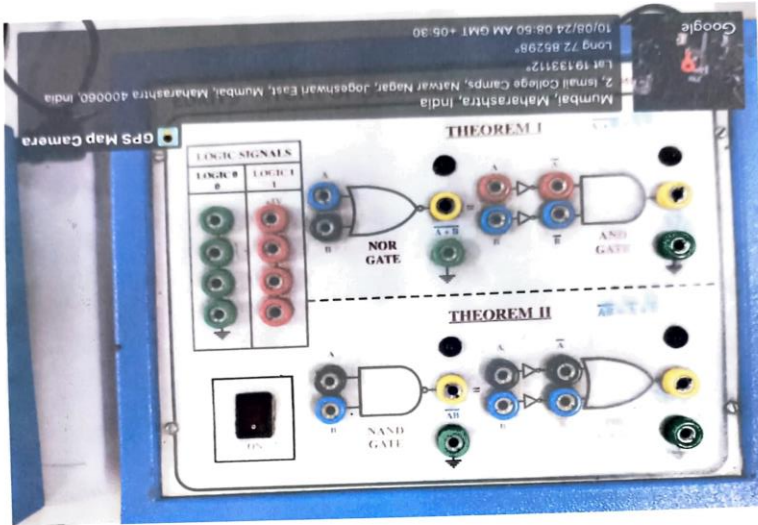


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Dmorgans Theorem



Frequency Generator



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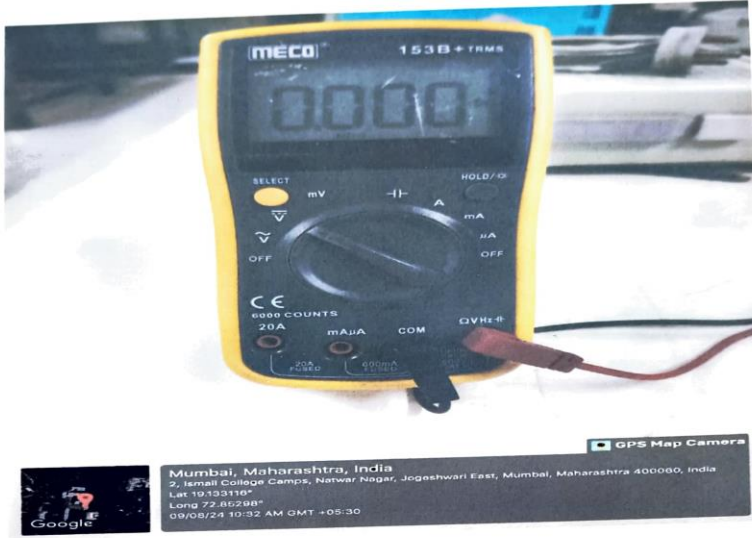


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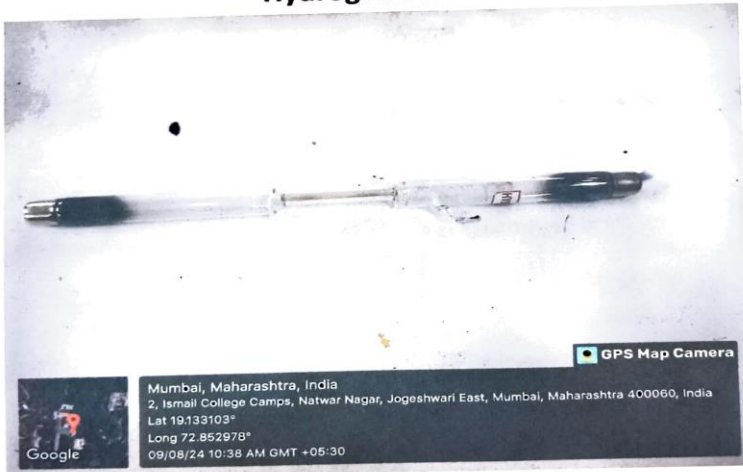
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Multimeter



Hydrogen Source



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Multimeter and voltmeter



Rubber Tube Experiment



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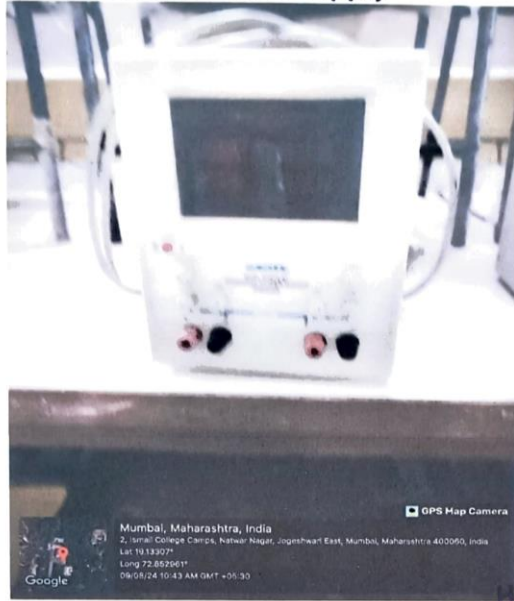


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Variable Power Supply



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Kitek Kit



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Velocity of Sound in Air



LVDT Kit



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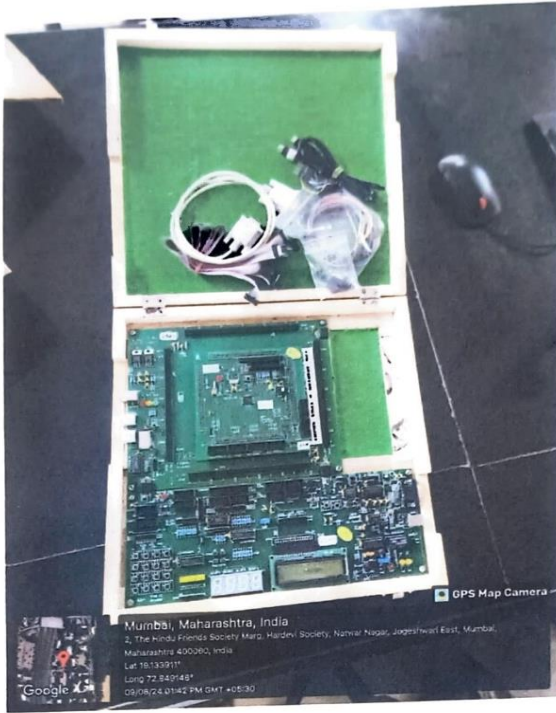


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TK Base Logic Analyser



Magnetic Stirrer



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Research laboratory	
ROOM LOCATION	New Science building First floor
DIMENSION	(14 x 10) sq.feet
WINDOW	02
FANS	02
TUBELIGHT	04
NO. OF AC	01
Instruments	XRD, FTIR, Solar, Simulator, Multichannel

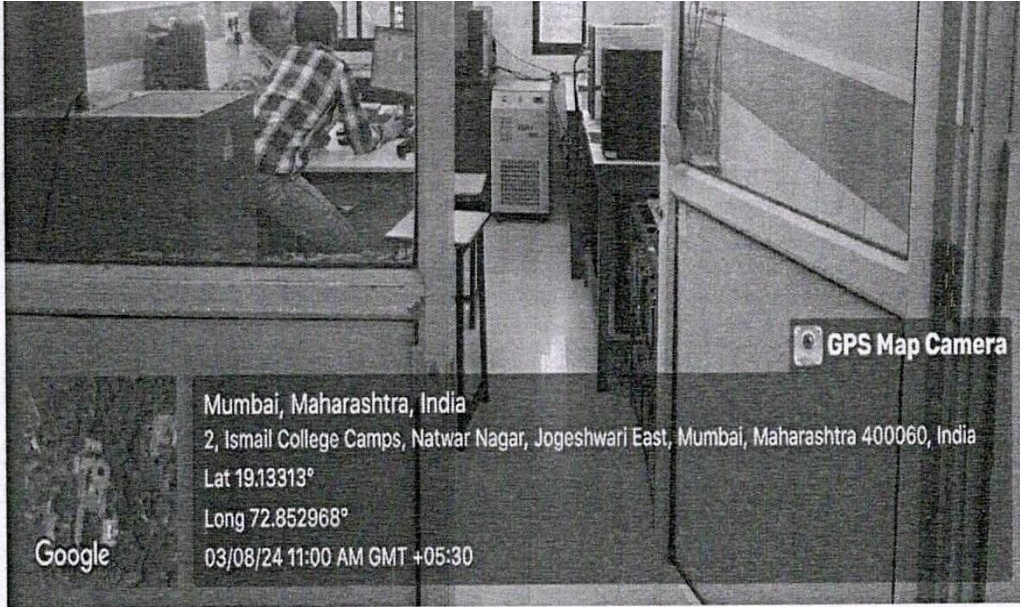

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RESEARCH LAB

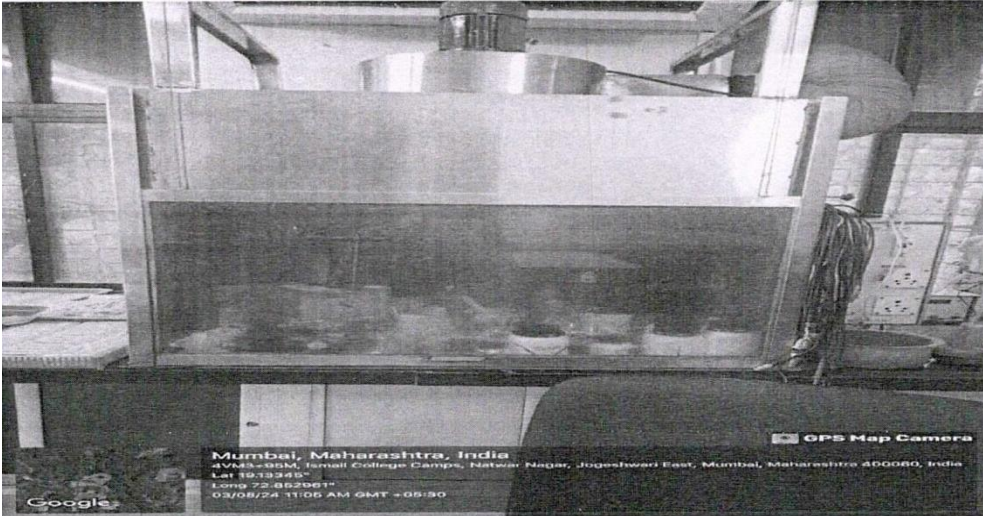

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FUMEHOOD



SOLAR SIMULATOR

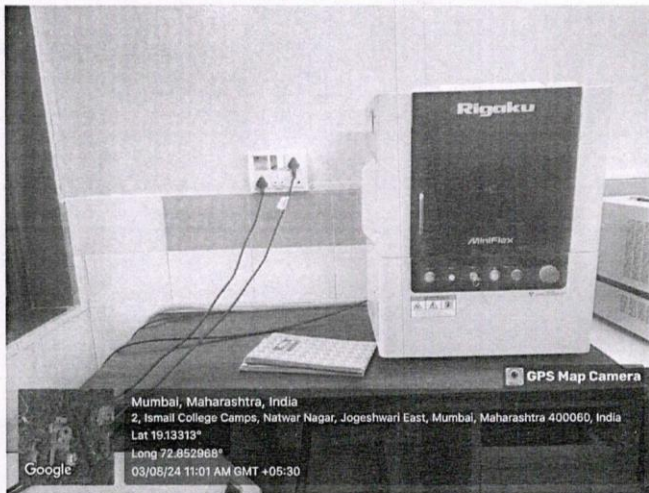

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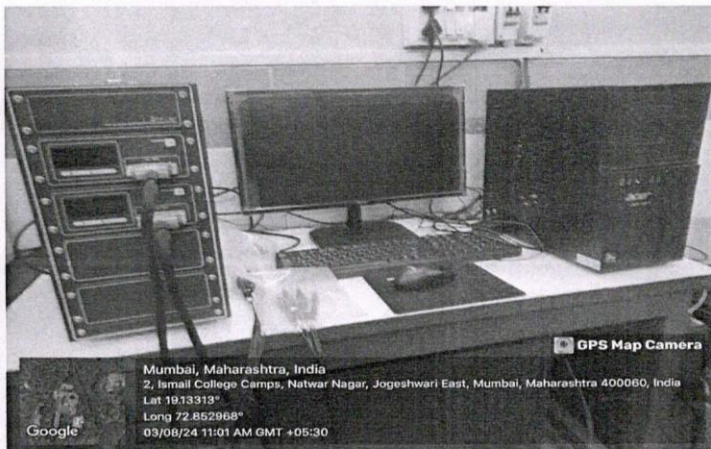
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XRD MACHINE



MULTI CHANNEL INSTRUMENT

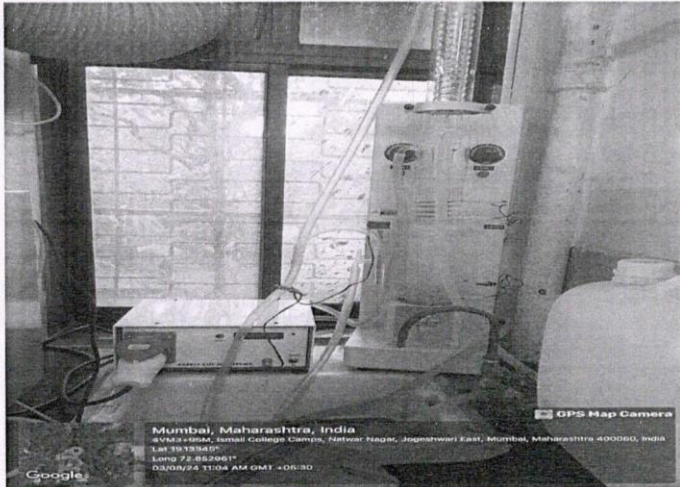

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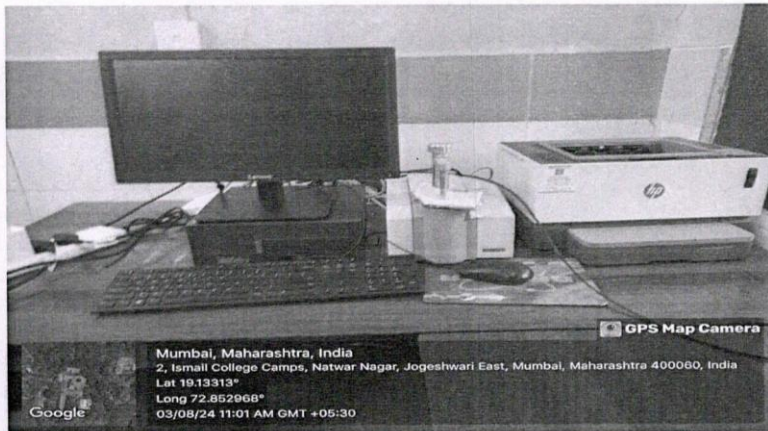
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DOUBLE DISTILLED WATER PLANT



FTIR


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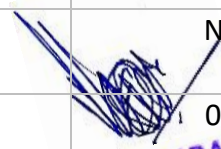


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DEPARTMENT OF BIOTECHNOLOGY		LAB-1	LAB-2	MSC LAB/ INSTRUMENTATION ROOM
Location		3 rd Floor, New Science Building.		
Student Capacity		36	36	16
Area of Classroom ($l \times b$)Sq. ft.		13X8	15x7.30	9X7.30
Teachings Aids		White Board-01	Nil	Nil
Practical aids	Table (work platform)	02	02	L type sitting
	Wooden stools	36	36	16
	Burners	24	38	Nil
	Wash Basin	02 with 02 taps (nonfunctional)	02 with 02 taps	01 with 01 tap (nonfunctional)
No. of Fan		06	06	04
No. of Tube light/ Panel light		12	10	08
Fire extinguisher/ Auto fire protection ball		Nil	Nil	Nil
No. of camera		01	02	Nil
No. of AC		03	04	Nil
No. of Door		02	03	02
No. of windows		04	06	04


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INTRUMENTATION AND APPARATUS DETAILS

Sr. No.	COMPONENTS		STATUS	
1.	Autoclave			
2.	Laminar Air Flow			
3.	pH meters			
4.	Colorimeter			
5.	Hot air oven			
6.	Incubator			
7.	Microwave			
8.	Refrigerator			
9.	Compound Microscope			
10.	AGE apparatus			
11.	PAGE apparatus			
12.	Power pack			
13.	Gel Doc Analyzer			
14.	Water bath			
15.	Burettes			
16.	Glass pipettes	10 mL	<i>Currently in use for regular lab practical sessions.</i>	
17.		5 mL		
18.		2 mL		
19.		1 mL		
20.	Micro pipettes	1000 uL		
21.		200 uL		
22.		10 uL		
23.	Conical flask	100 mL		
24.		250 mL		
25.		500 mL		
26.	Beakers	100 mL		
27.		250 mL		
28.		500 mL		
29.	Volumetric flask			
30.	Measuring cylinders			
31.	Petri plates			


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32.	Side arm flask	
33.	Funnel	
34.	PTC tubes (25 mL)	
35.	Test tube racks	
36.	Burette stands	
37.	Burettes	
38.	Tripods	
39.	Canister	
40.	Plastic tray	
41.	Gas Cylinders	


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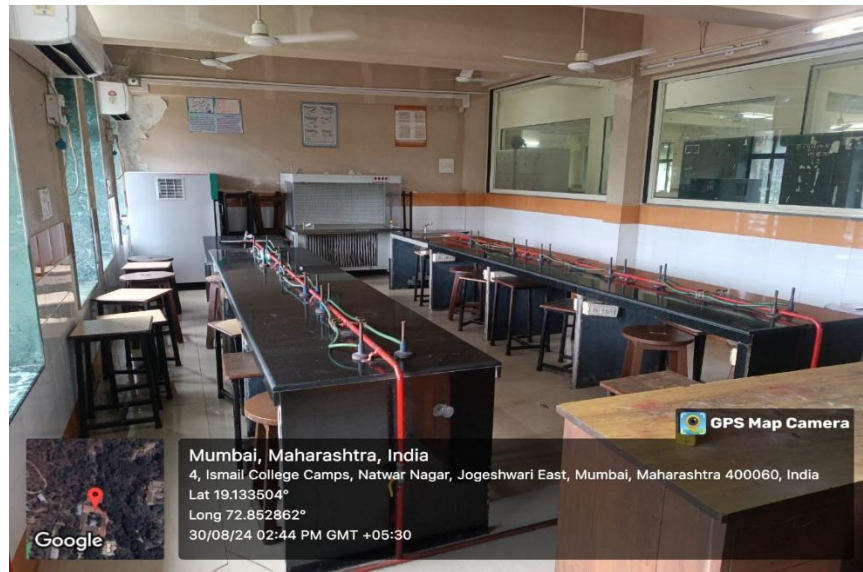


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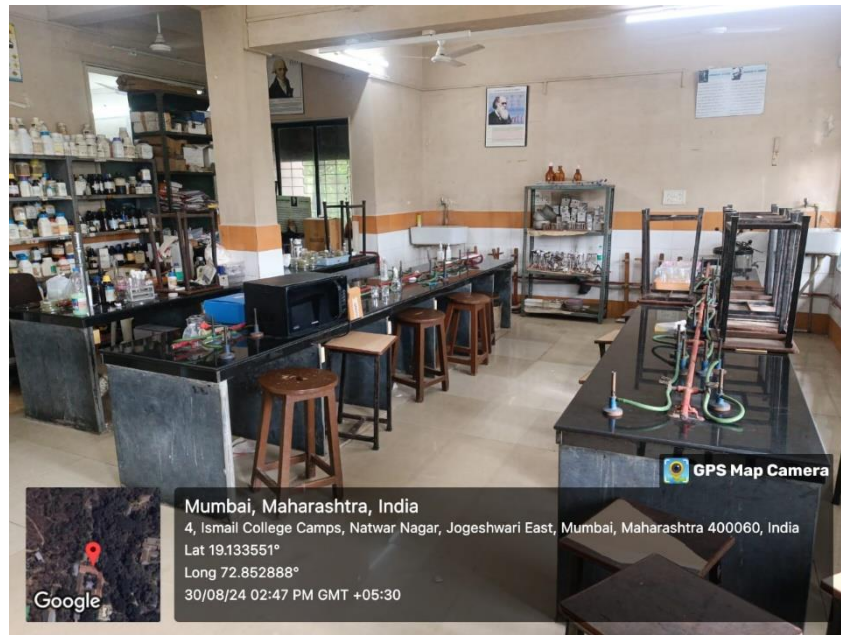
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LAB-1



LAB-2



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