



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

MAJOR EQUIPMENTS

Field Emission Scanning Electron
Microscope (FESEM)

High Resolution Scanning
Transmission Electron Microscope
(HR-STEM)



X-ray Diffractometer

HR/STEM
Sample Preparation Tools



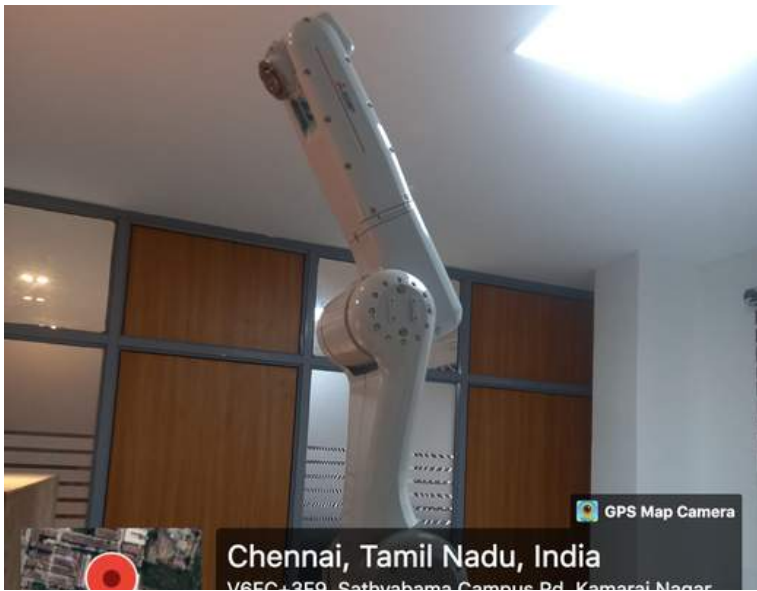
Humanoid Robot



Unmanned Aerial Vehicle



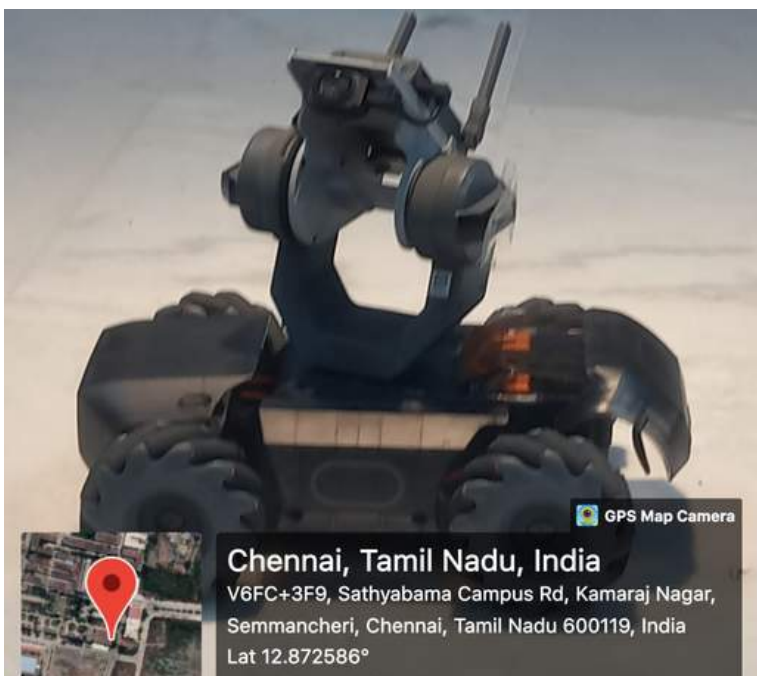
Robotic Arm



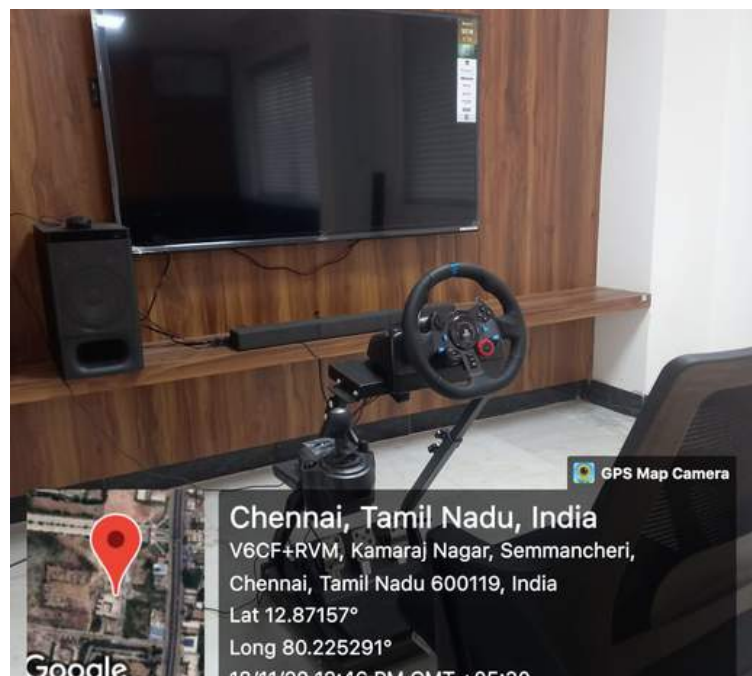
Head Mounted Display



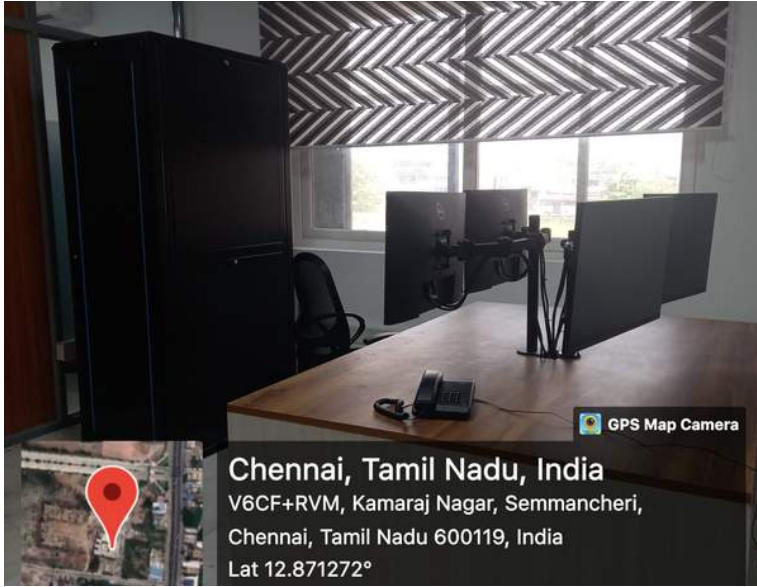
Rover



Metaverse Workstation



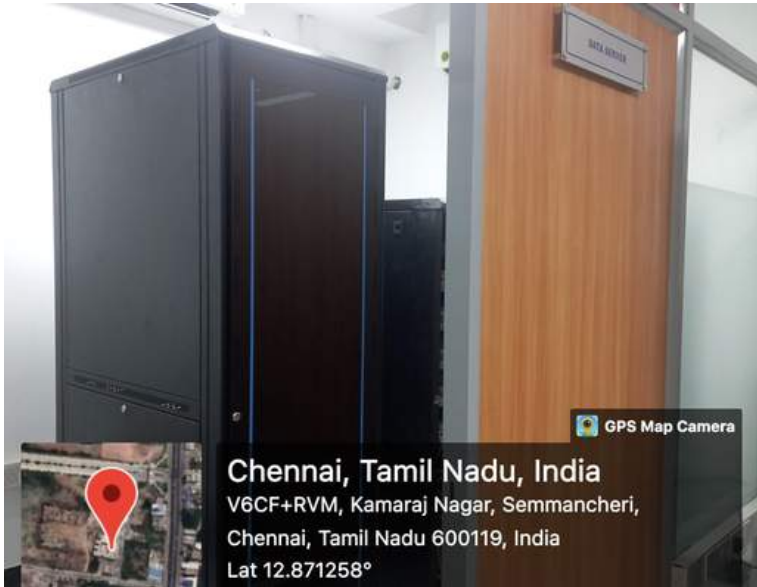
AI Research Station Server



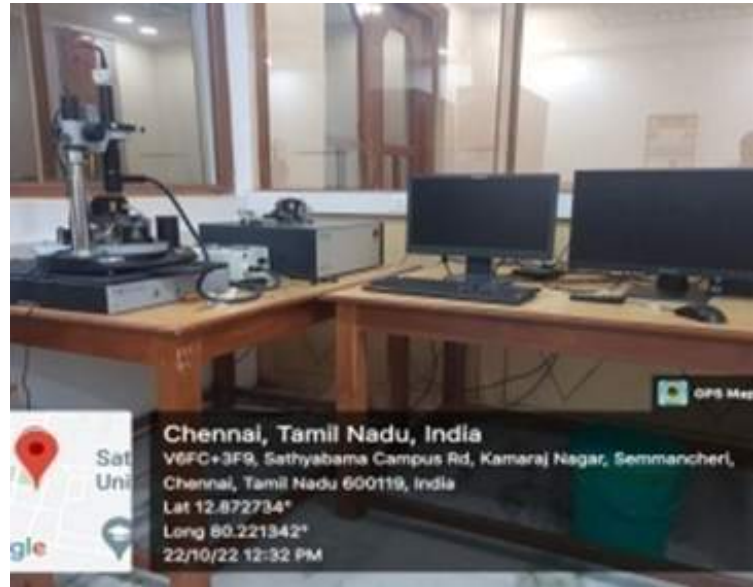
Lenovo Tower Server ST550 1U Rack Server



Data Server



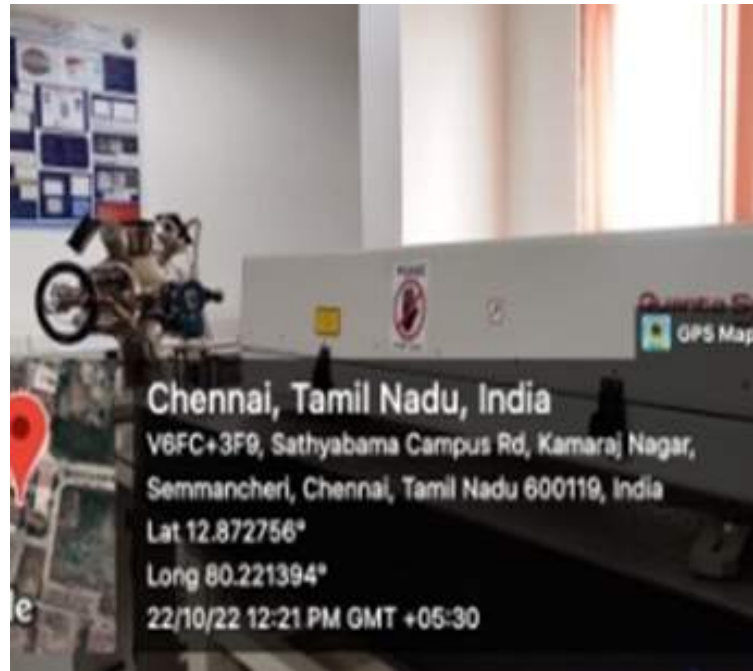
Atomic Force Microscope



Makerspace Facility



Pulsed Laser Deposition



DC Magnetron Sputtering



Enspire Multimode Plate Reader



Electron Beam Evaporation



Microtome RM2125RTS2



Thermal Evaporator



Leica M 165 FC Fluorescence Stereo Microscope



UV-Vis Nano Drop Spectrophotometer



Micromanipulator- FEMTO JET Express



Zebrafish Stand Alone Circulation Facility



Bioanalyzer 2100 Desktop



Preparative HPLC System with PDA Detector



UV-Visible Spectra -JASCO-V670



Contrast Microscope DM2000



Rotatory vacuum Evaporator



EnSight Multimode Plate Reader



Shimadzu Capillary Gas Chromatograph GC - 2010Plus



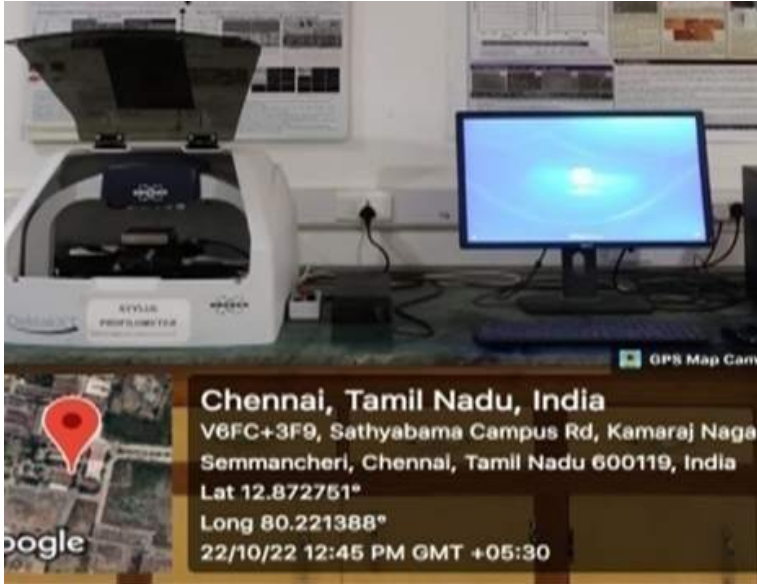
Biosafety Cabinet



Inverted Epifluorescence Microscope



Stylus Profilometer



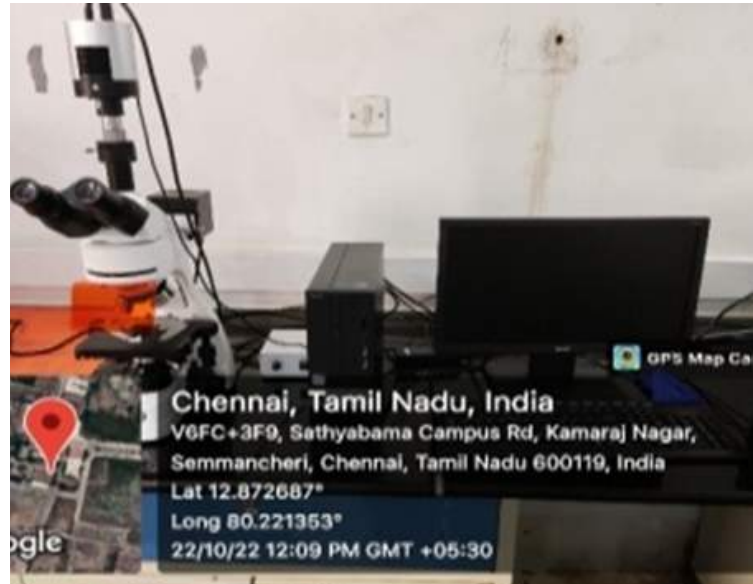
Cooling Centrifuge



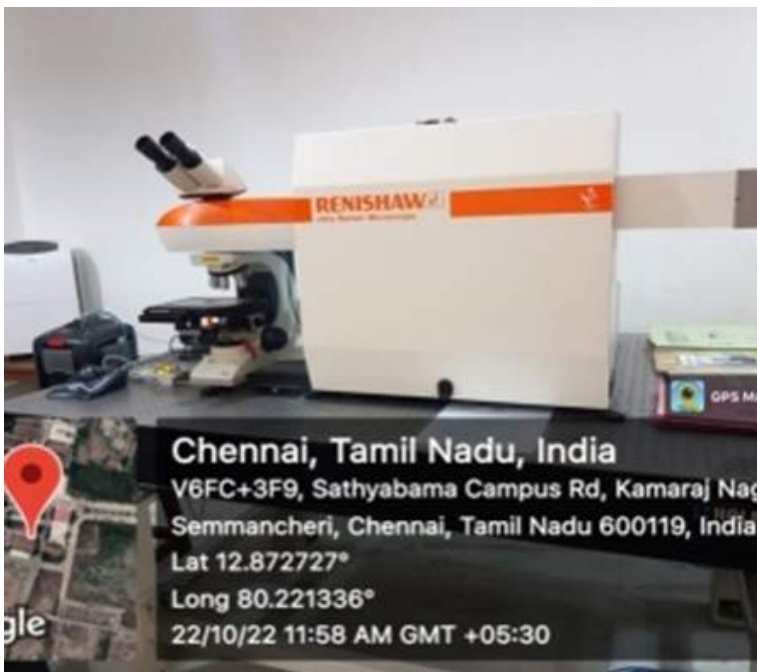
Linear Reciprocating Tribometer (LRT)



Upright Fluorescence Microscope



Raman Spectroscopy



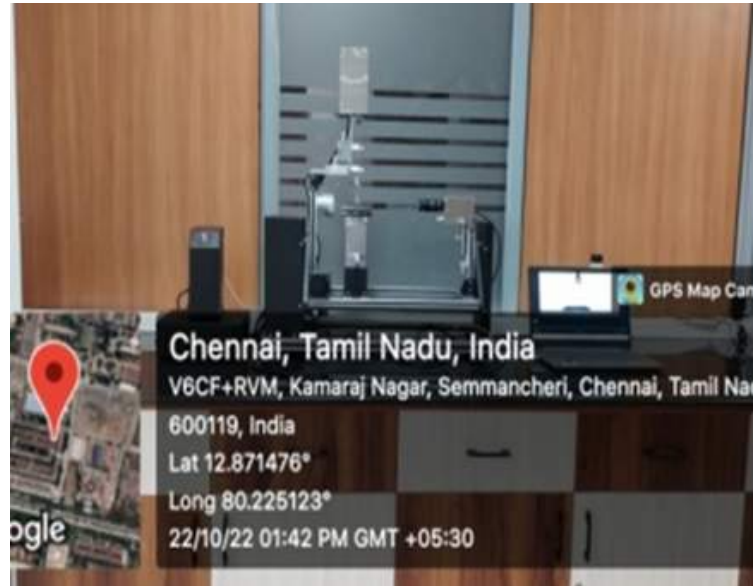
High temperature Furnace



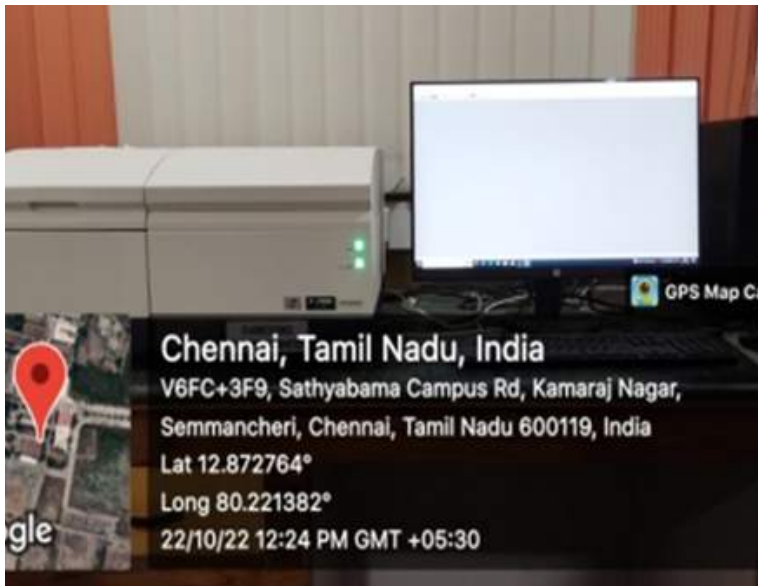
FTIR Spectroscopy- JASCO



Contact Angle Goniometer



Fluorescence Spectrophotometer



Makerbot Replicator



Advanced Photo Reactor



Stratasys F370 3D Printer

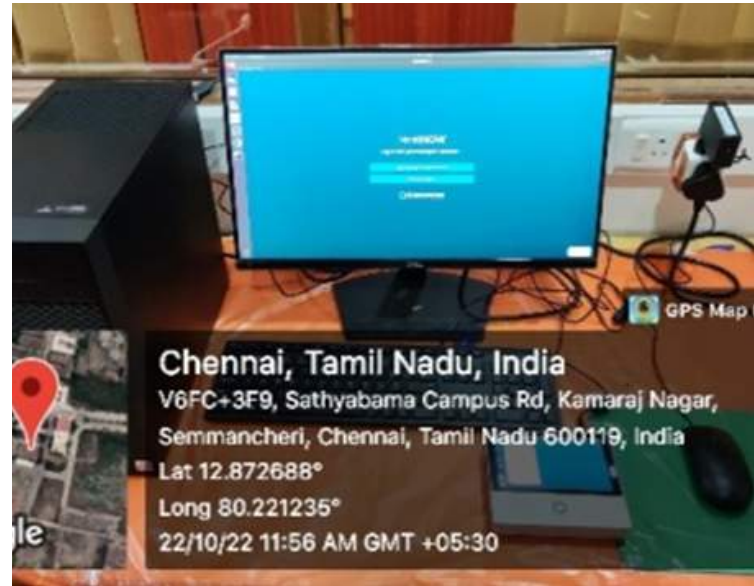


Stratasys J5

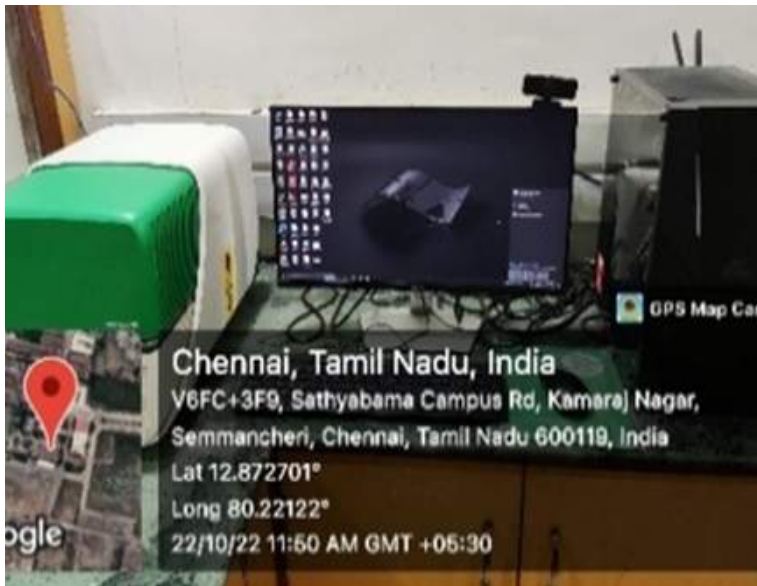


RT – PCR, Model – Opus 96

Nanopore Sequencer



Biosafety Cabinet B2



ChemiDoc System



CO2 Incubator



Incubator (Invitro Organ Culture)



Hot Air Oven



Advance Rotary Microtome



Water Bath



Autoclave



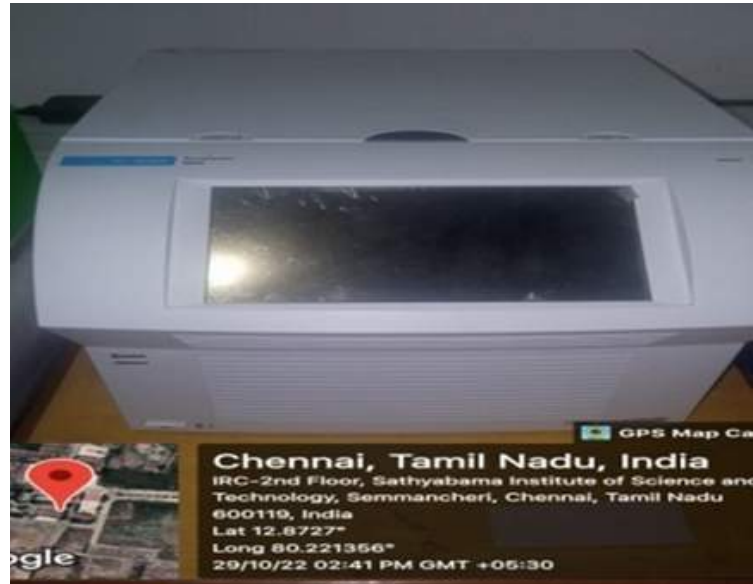
Shaker Incubator



Light Microscope



PCR Machine



Motic Strozoom Microscope



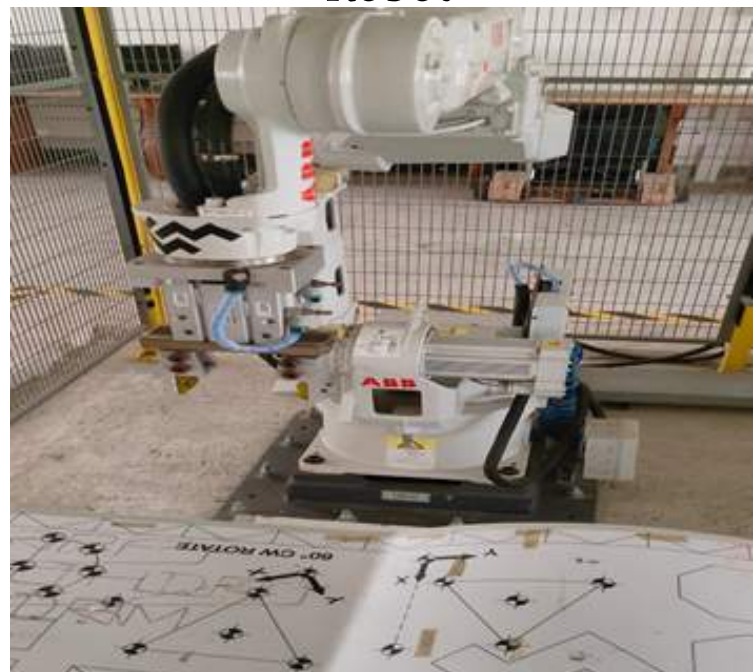
Bacteriological Incubator



Nikkon Strozoom Microscope



6 Axis IRB 1520 ABB Industrial Robot



FDM 3D Printer



DLP 3D Printer



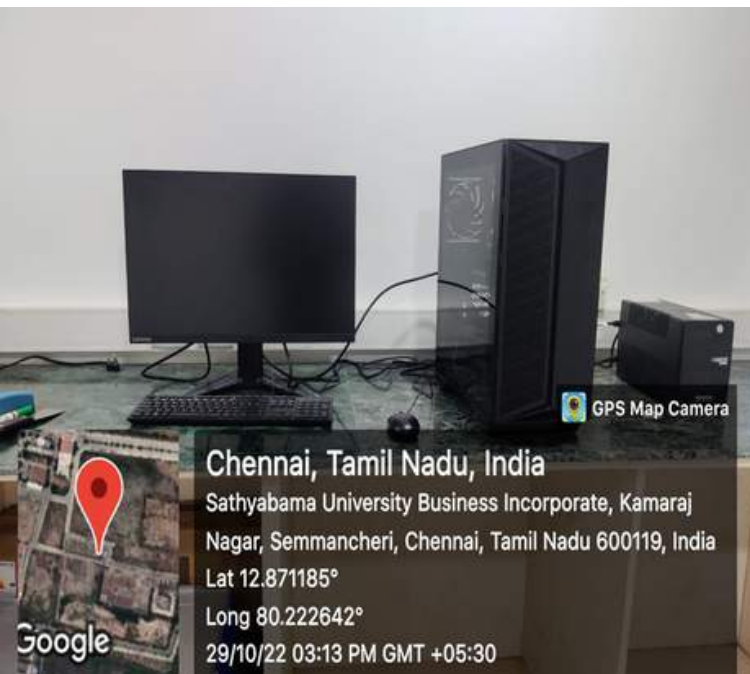
Curing Unit



Bottle Rinsing



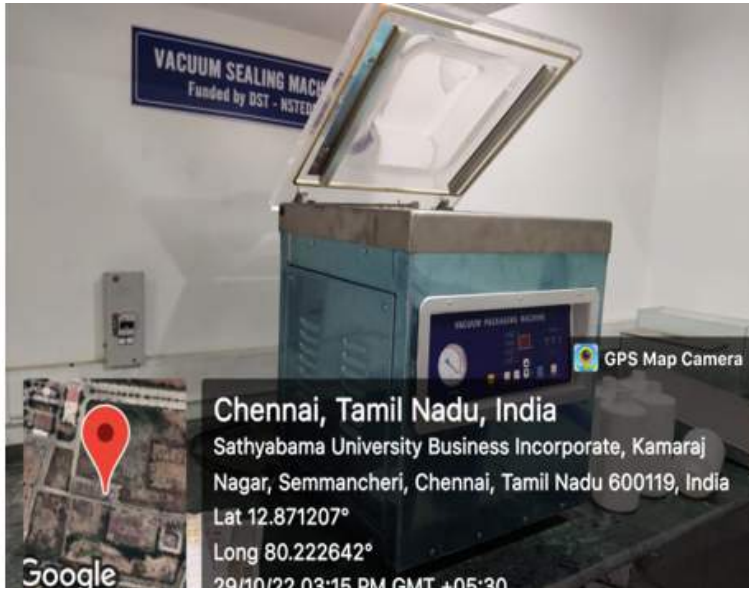
Design Station



Pouch Packing Machine



Vaccum Sealing Machine



CNC Milling



Tray Freezer Dryer



CNC Router



Chainsaw



Work Station



Driller



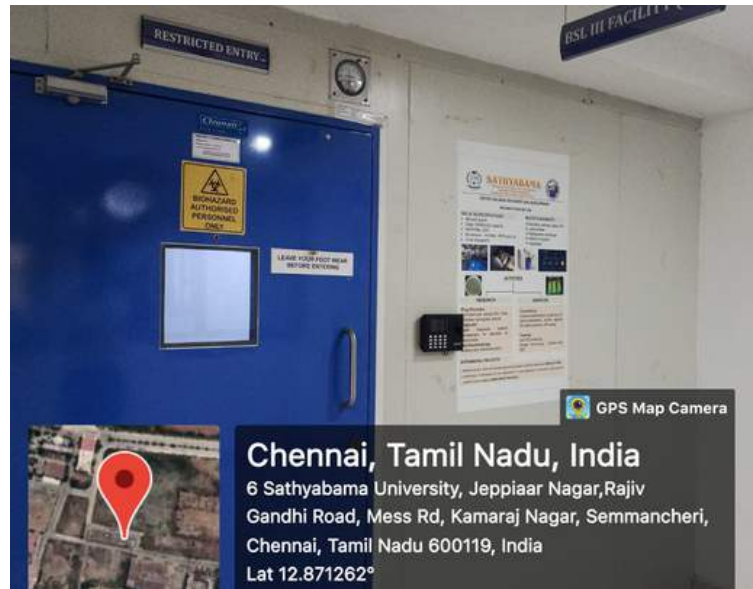
Bottle Filling Machine



Laser Cutter



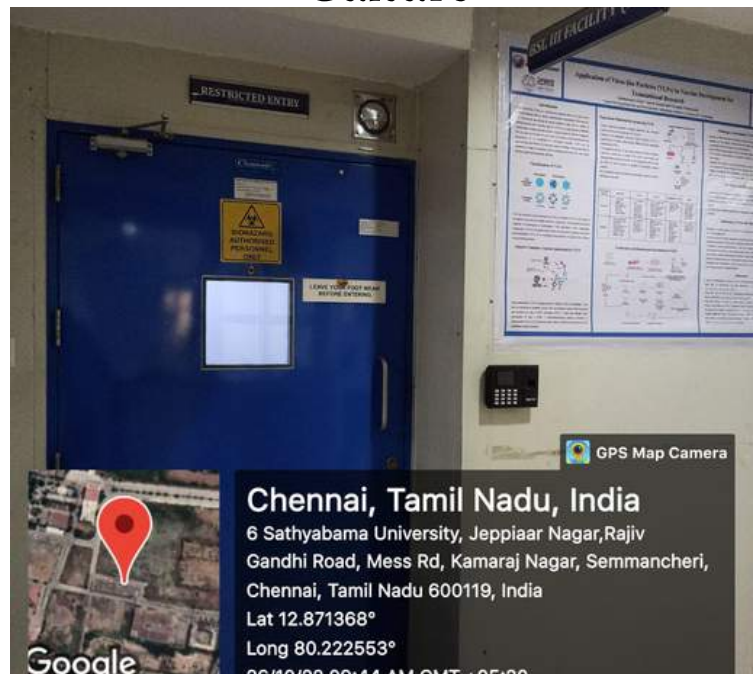
Biosafety Lab (BSL) Facility TB



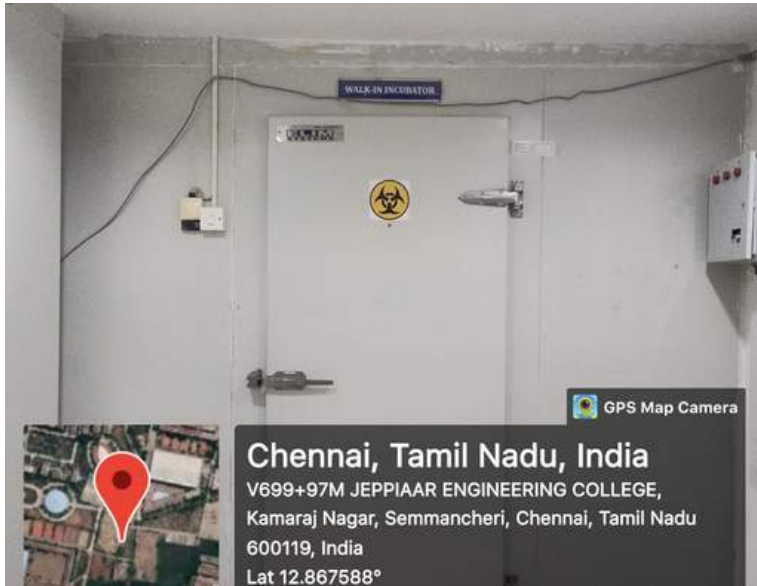
Spray Dryer



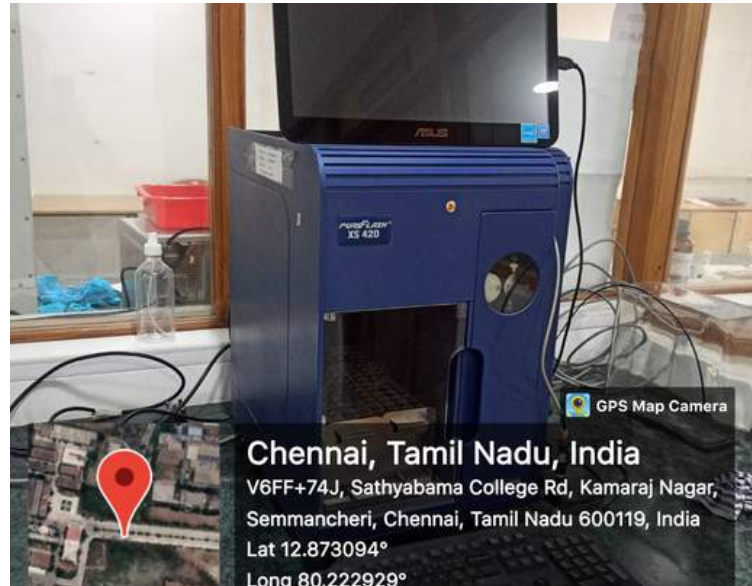
BSL Facility Virology & Cell Culture



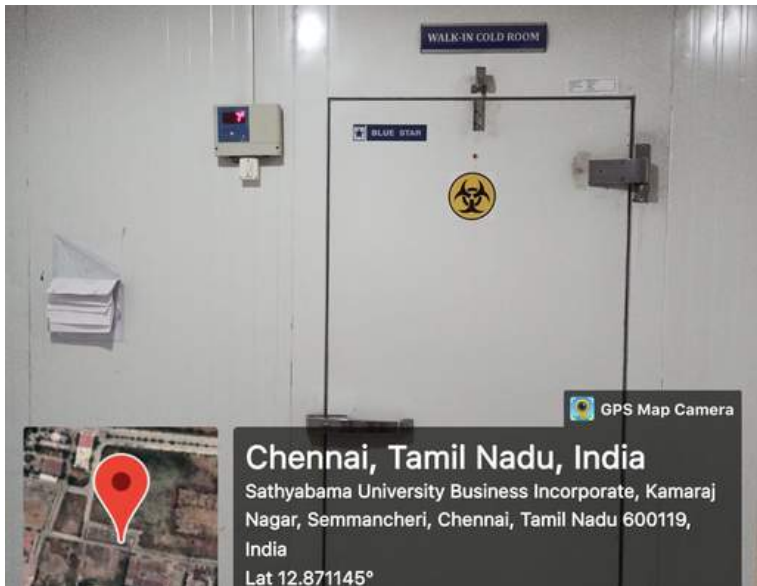
Walk in Incubator



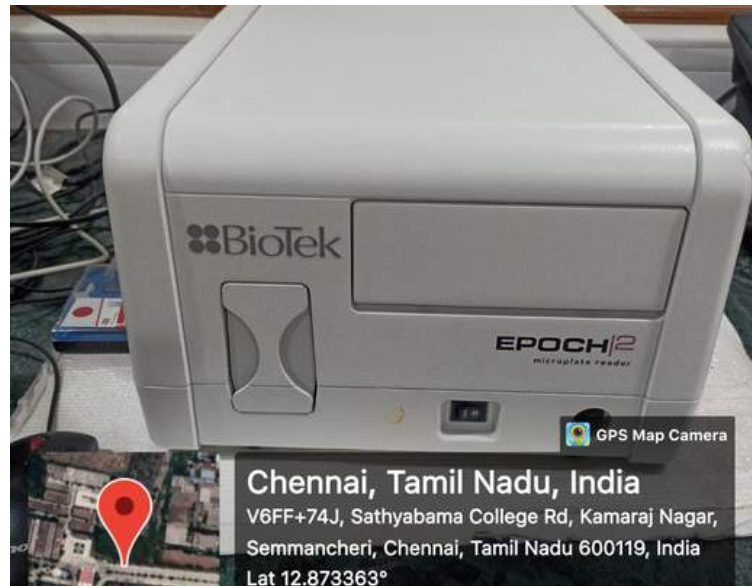
Flash Chromatography



Walk in Cold Room



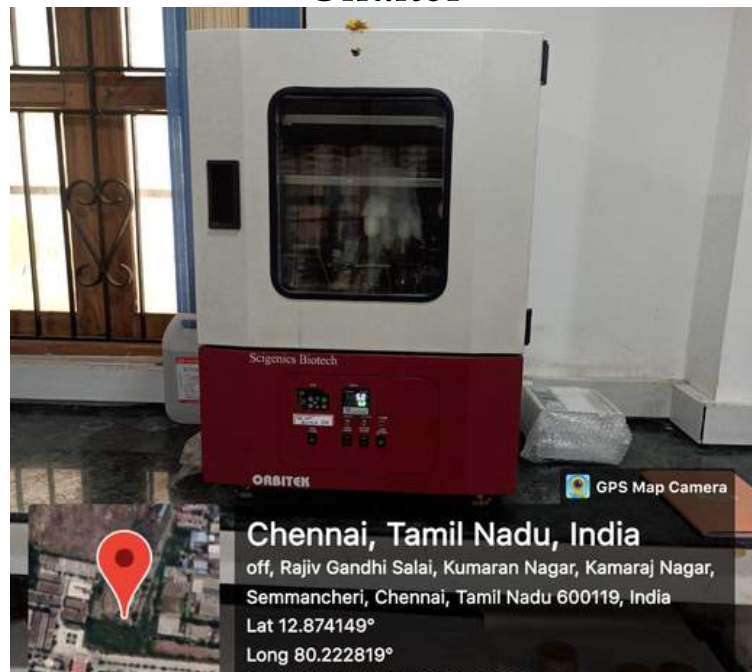
Microplate Reader



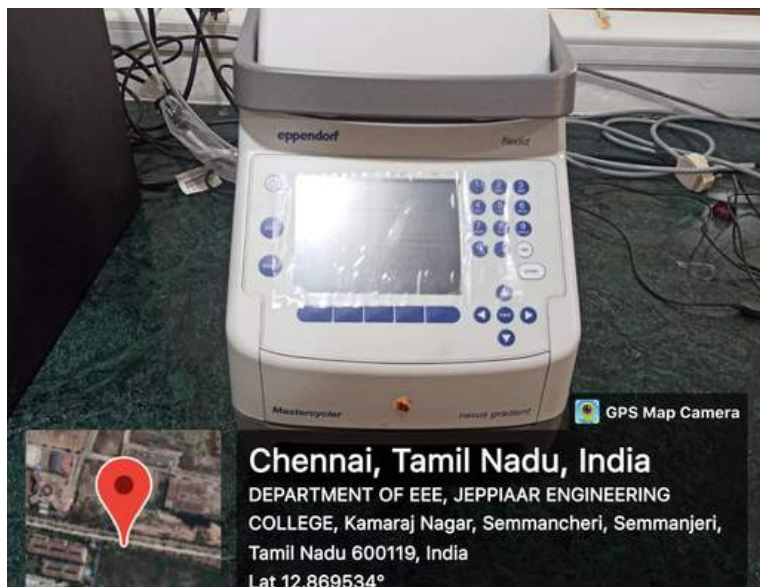
Fermentor (10 L)



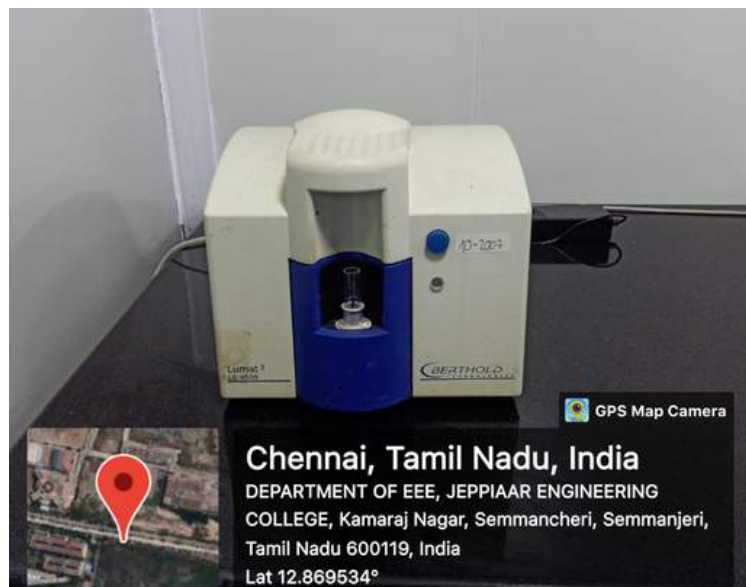
Multi Temperature Incubator Shaker



Thermal Cycler



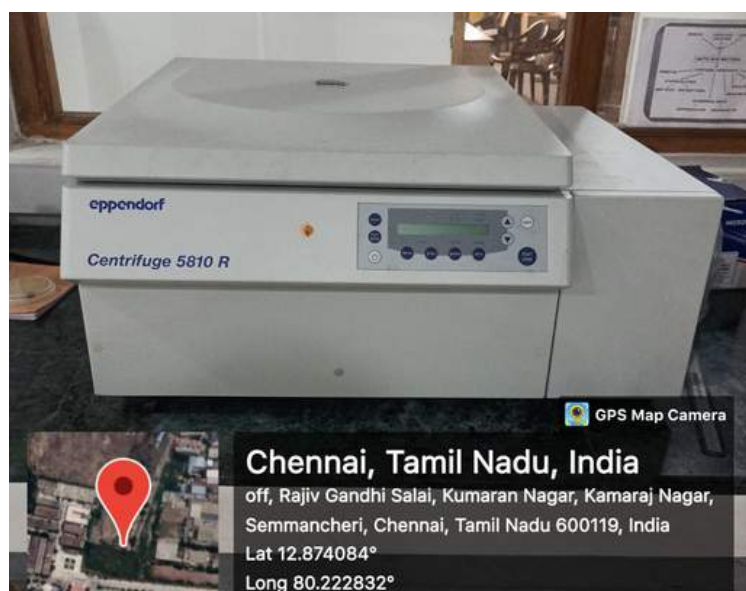
Luminometer



Microplate Reader



Refrigerated Centrifuge



BSC Class II A2 - 1



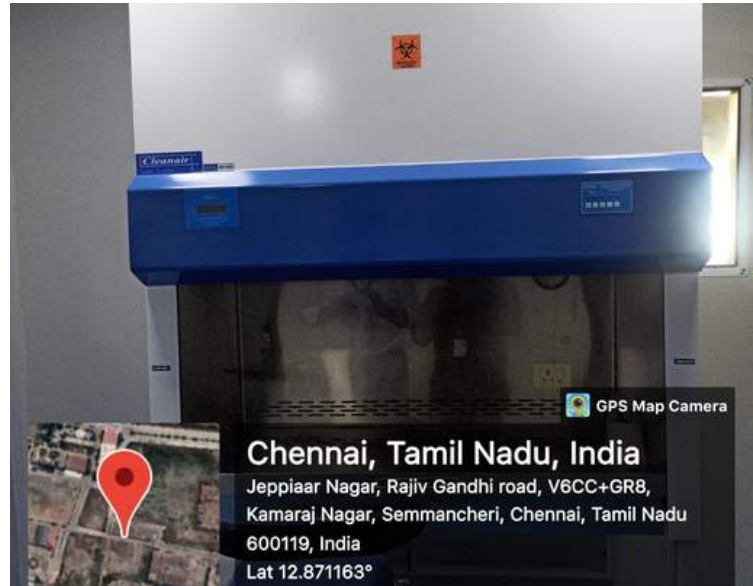
Phase Contrast Inverted Microscope



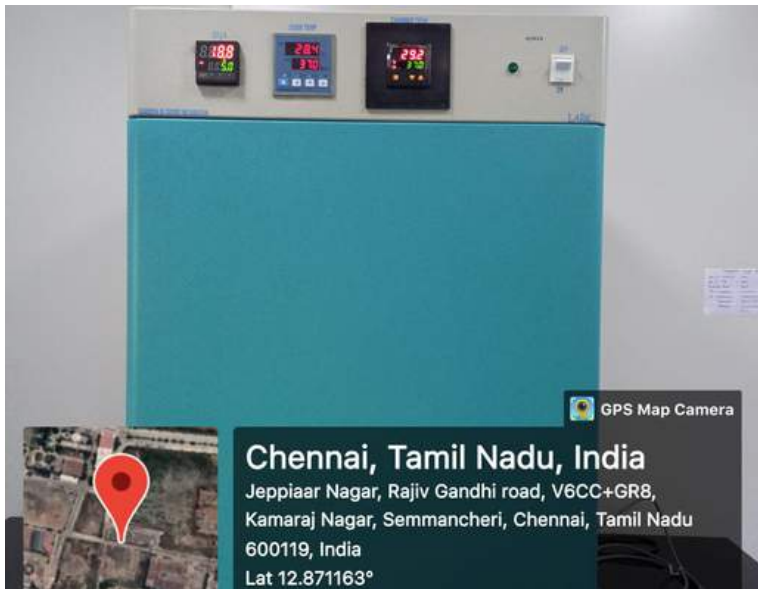
Refrigerated Centrifuge



BSC class II B2



CO2 Incubator



ELISA Reader



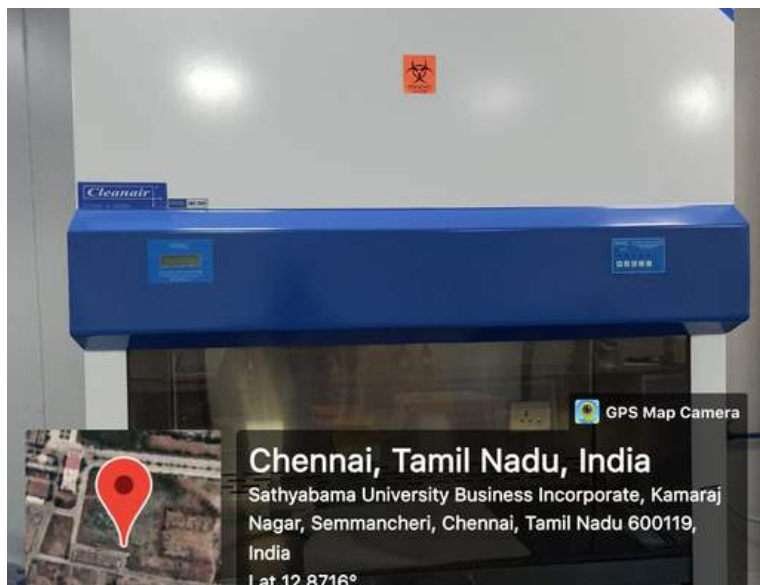
ELISA Washer



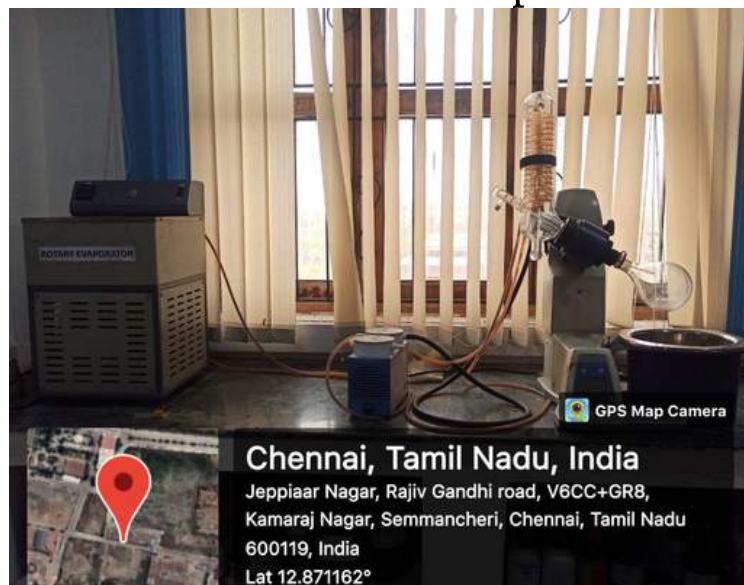
Thermal Cycler (PCR)



BSC Class II A2 - 2



Rotary Evaporator with Chiller & Vacuum Pump



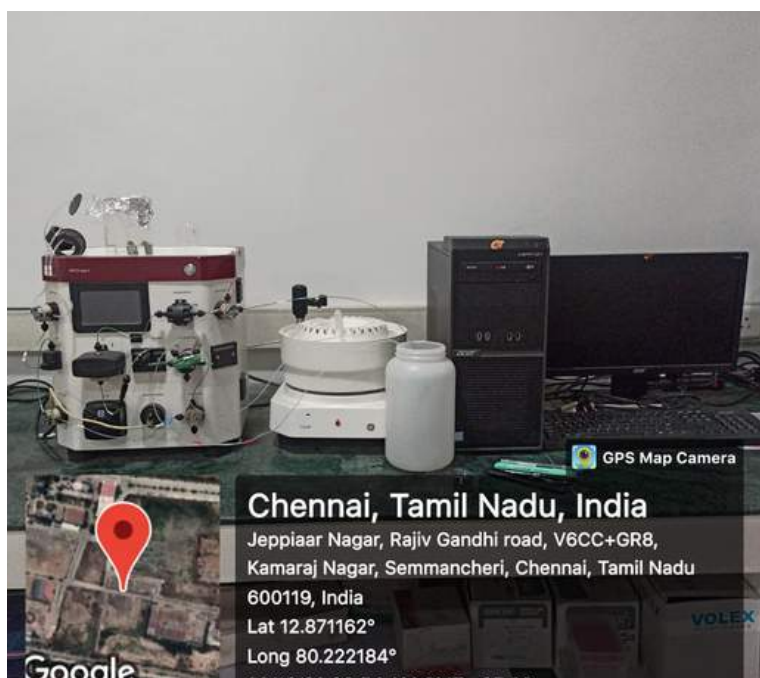
Refrigerated Centrifuge



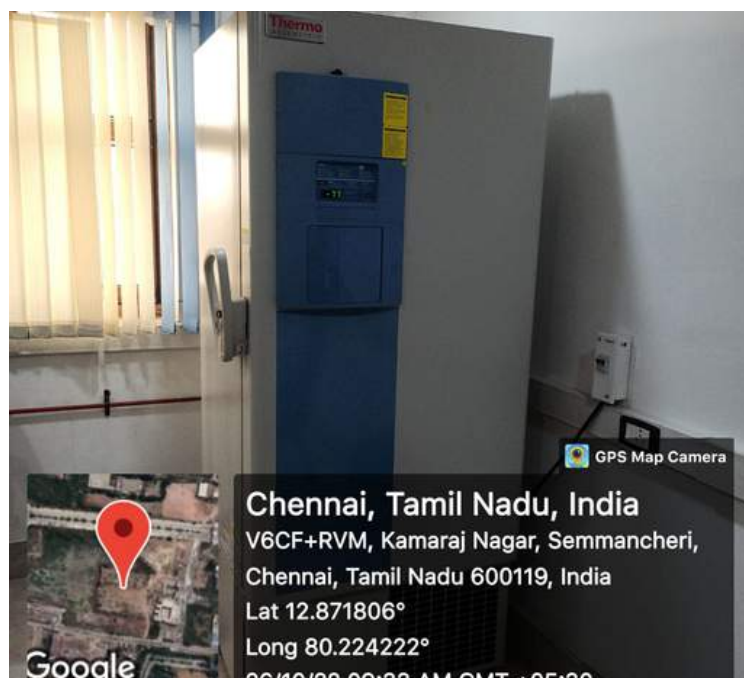
RT-PCR



FPLC



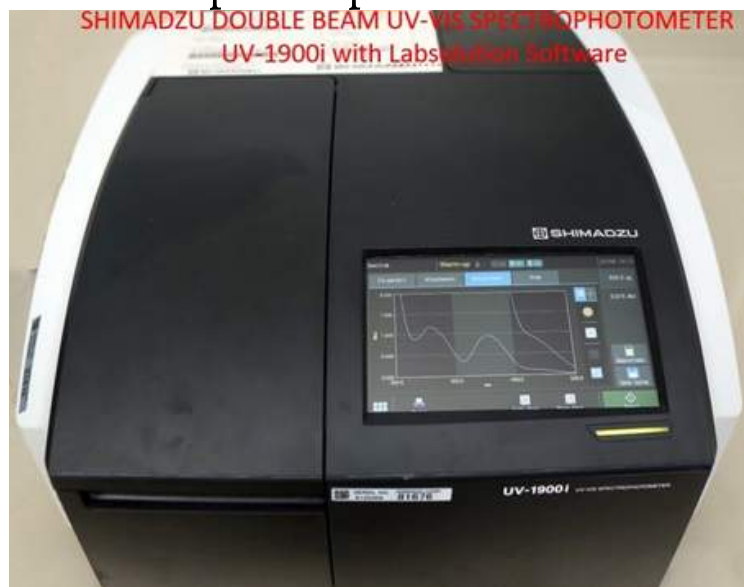
Deep Freezer



Autoclave Horizontal



Shimadzu Double Beam UV-V15 Spectrophotometer



Autoclave Vertical



Fumehood



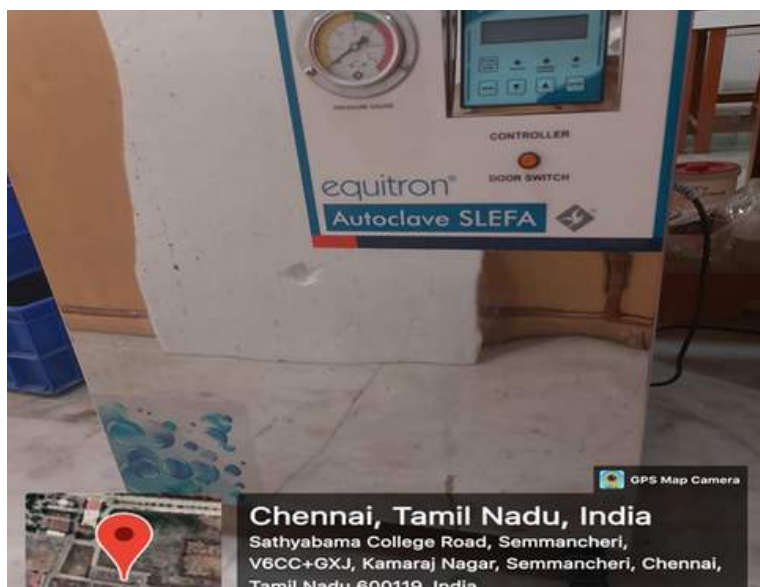
Rotaevaporator



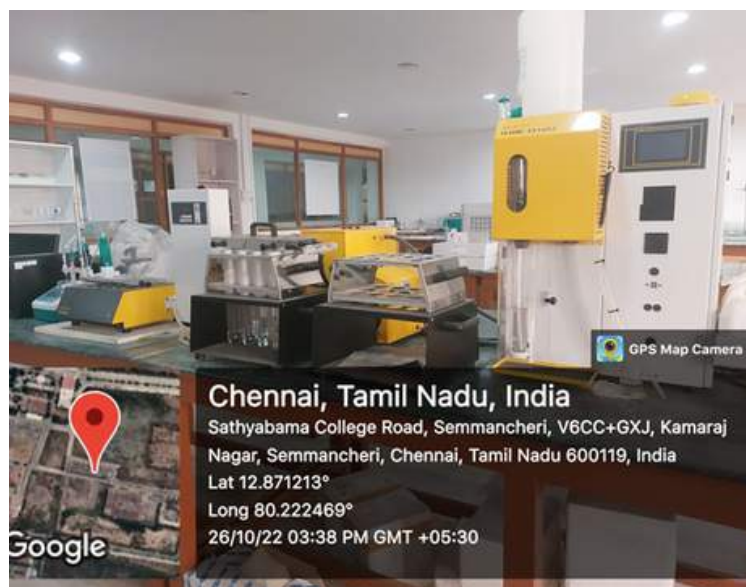
Biopac



Equitron Automatic Autoclave



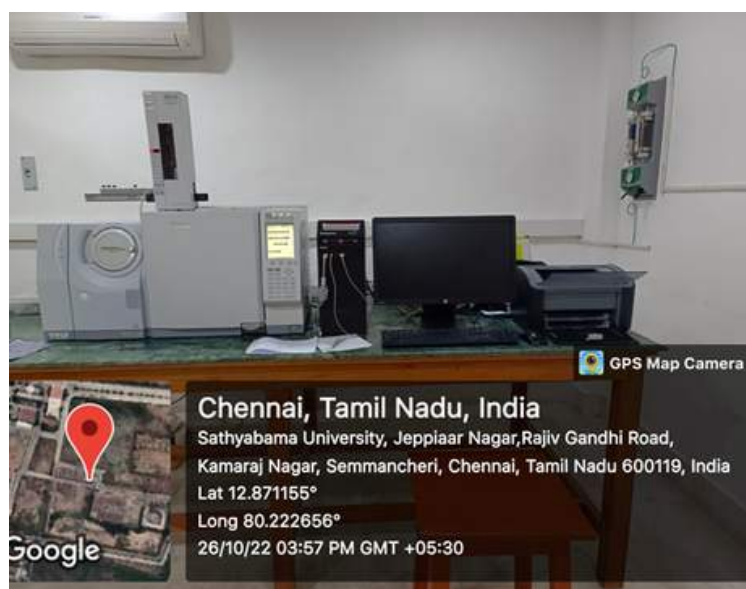
Kjeldahl Apparatus



Remi Cooling Centrifuge



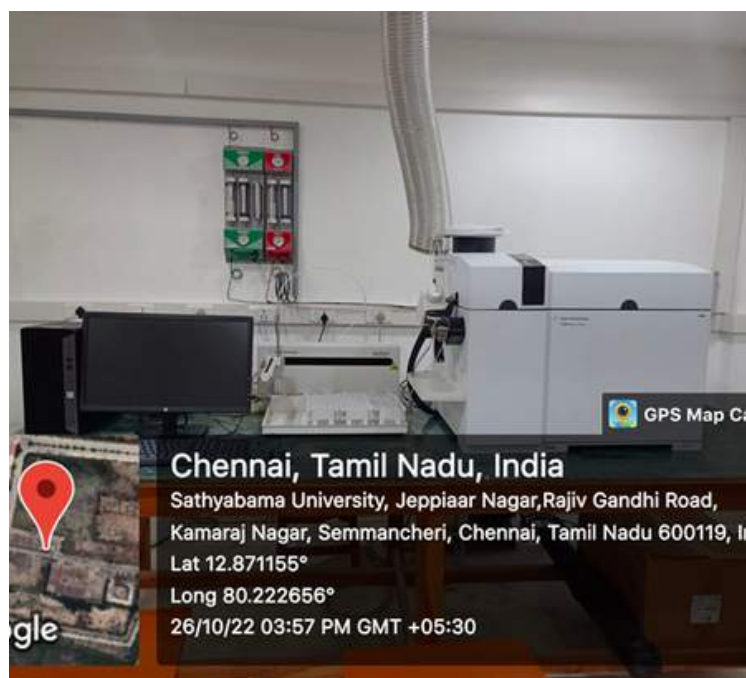
ICP - Mass Spectroscopy



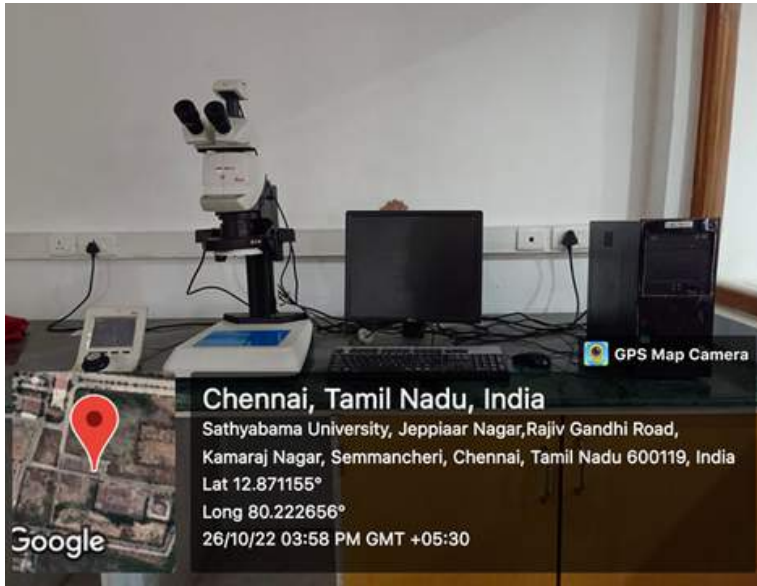
ES45 Environmental Shaker



GC - Mass Spectroscopy



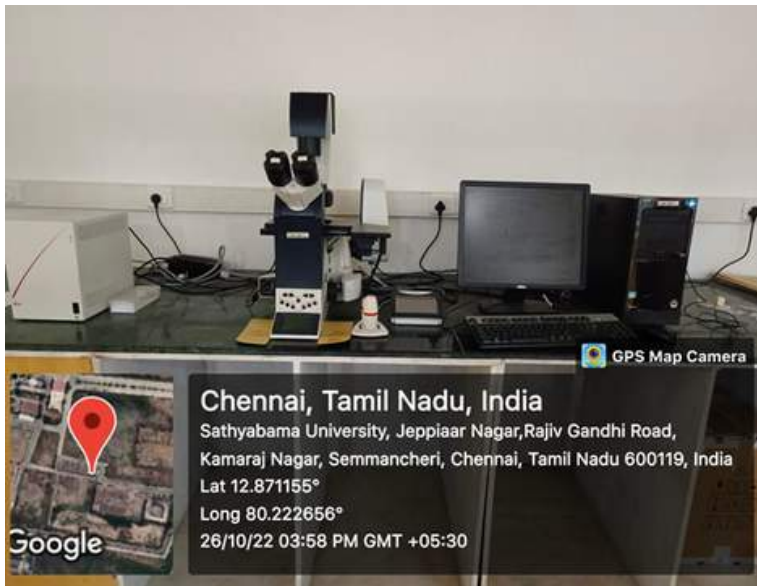
Stereo Microscopy



Thermocycler



Inverted Fluorescence Microscopy



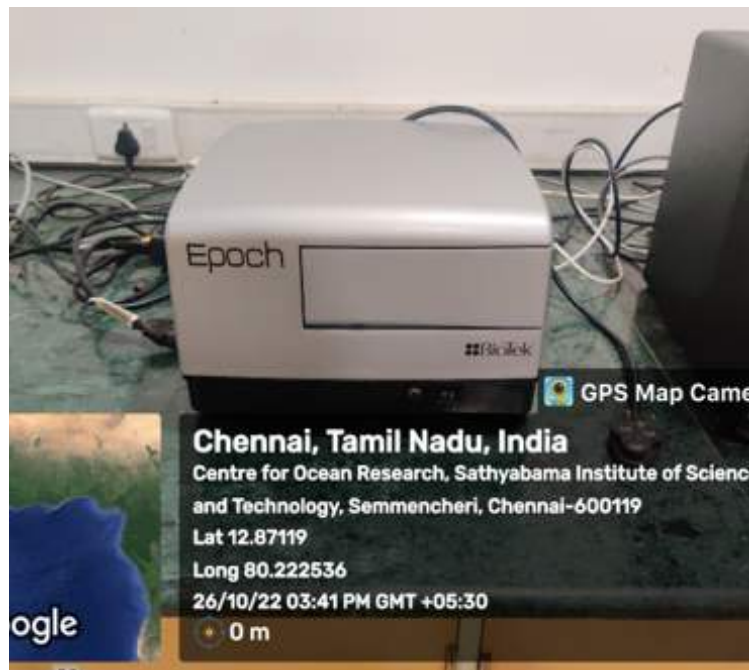
Osmometer



TOC Analyzer



Micro-plate Reader



Co2 Incubator



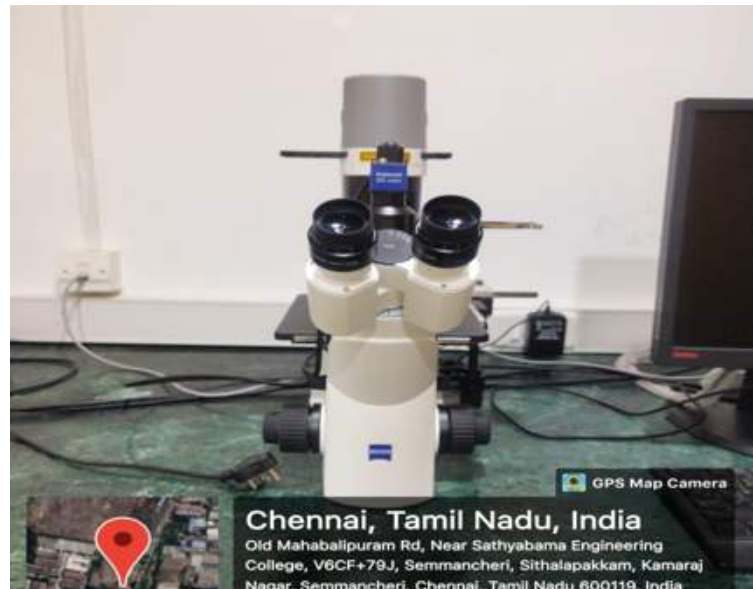
Vertical Laminar Chamber



Biosafety Cabinet



Microscope



Biosafety Cabinet



Incubator



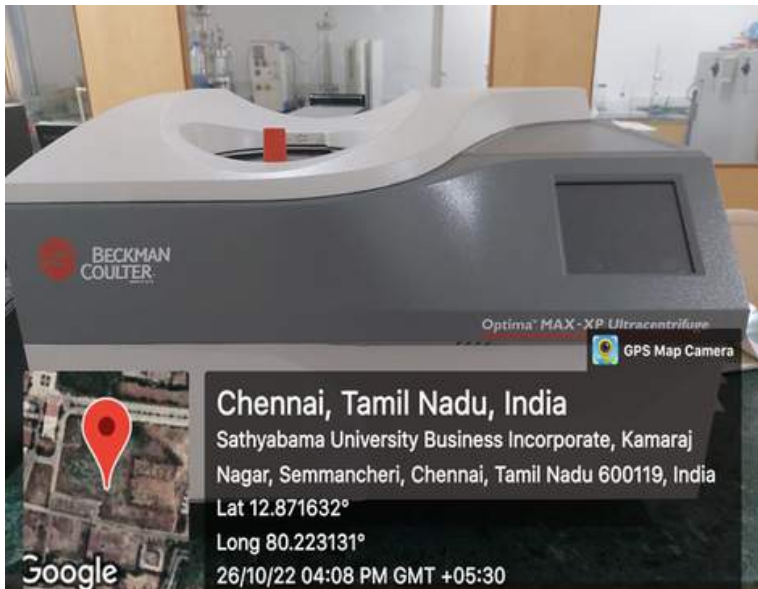
Centrifuge



Bioreactor



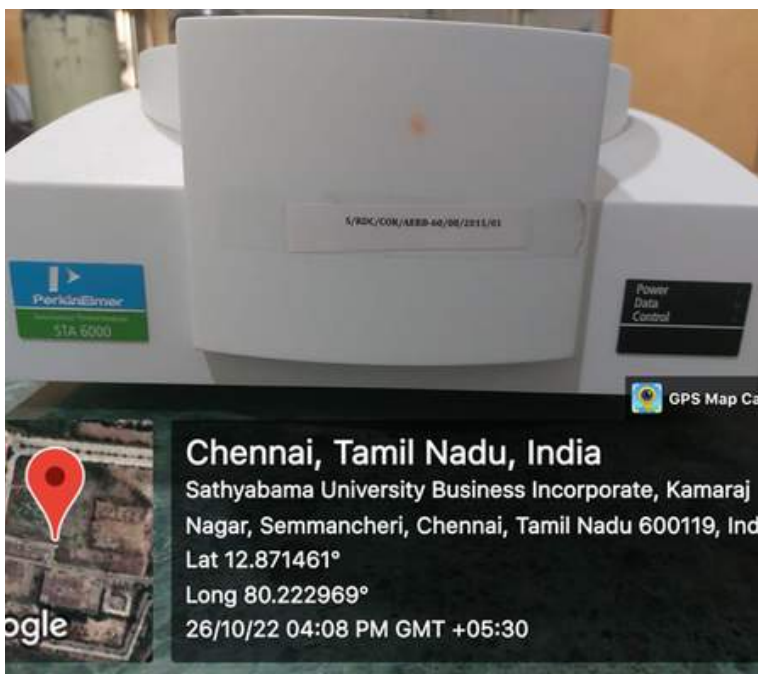
Ultra-centrifuge



Fermentor 75L



TGA- DSC



Oven



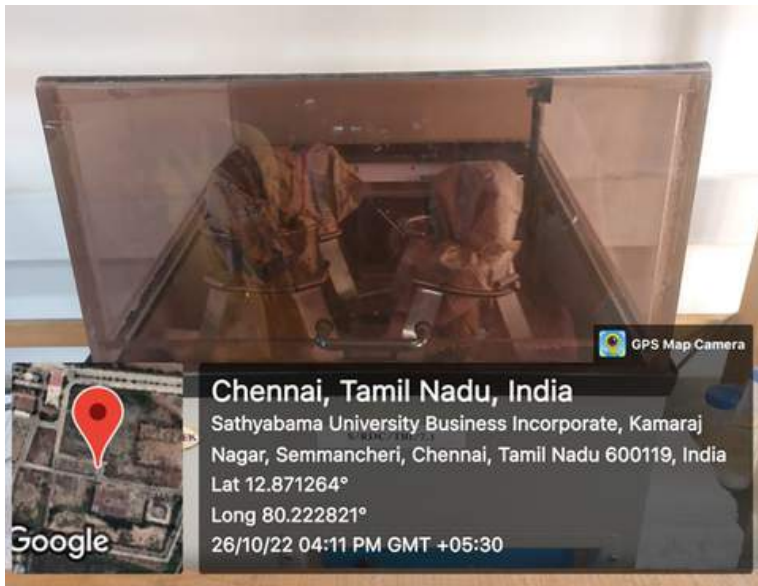
Air Flow Chamber



UV-1800 Shimadzu Spectrophotometer



Shaker Incubator



Spectrofluorimeter



Horizontal Autoclave



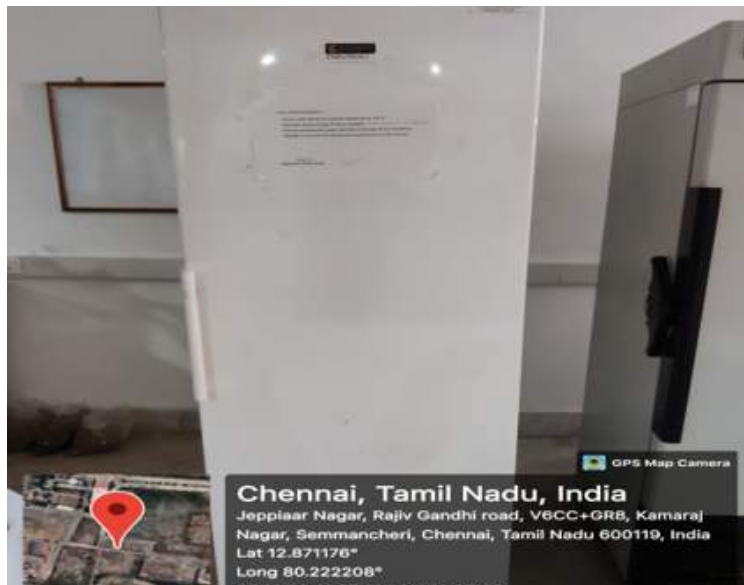
Agilent Cary 630 ATR- FTIR



Countess FL Automated Cell Counter



20 Deep Freezer



Heraeus Megafuge 8R



HiMedia Prima 96 Thermal Cycler



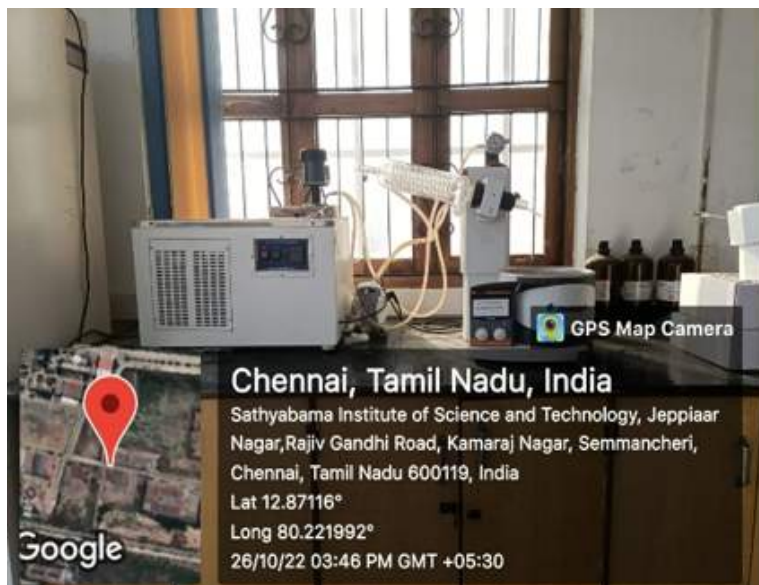
80 Deep Freezer



HiMedia UV Illuminator



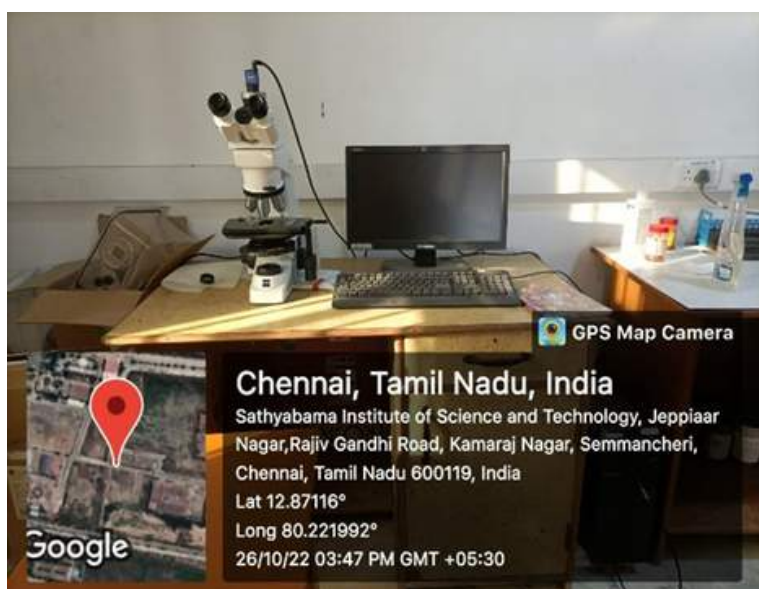
Rotary Evaporator



Hot Air Oven



Trinocular Upright Microscope



Fume Hood



Minifuge



Furnace



Water Bath

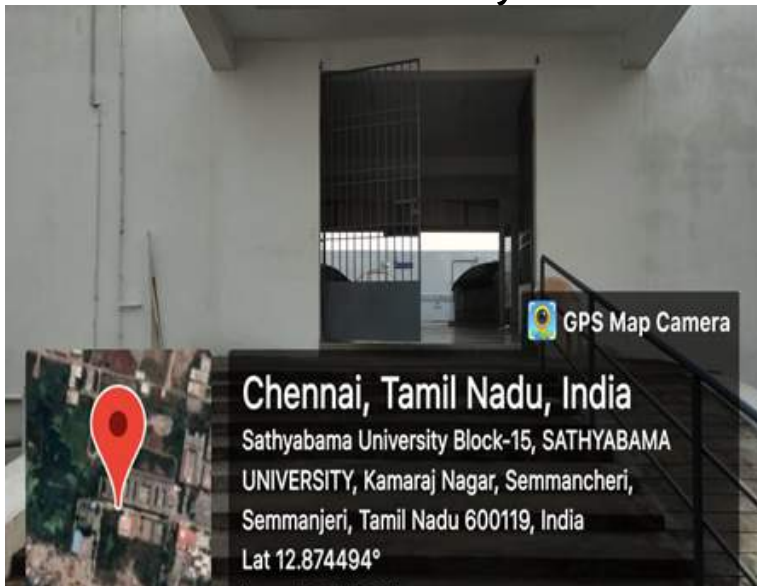


Col. Dr. Jeppiaar Ocean Research Field Facility

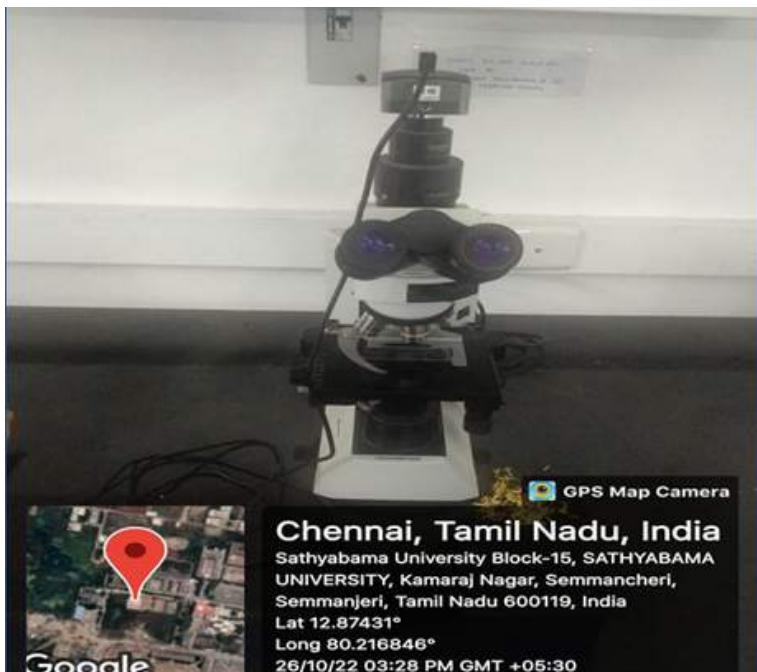
Flame Photometer



Microtome



Phase Contrast Microscope



Microplate Reader



Zebra Fish Housing Unit



Fresh Water and Sea Water Filtration Setup



Leica Compound Microscope



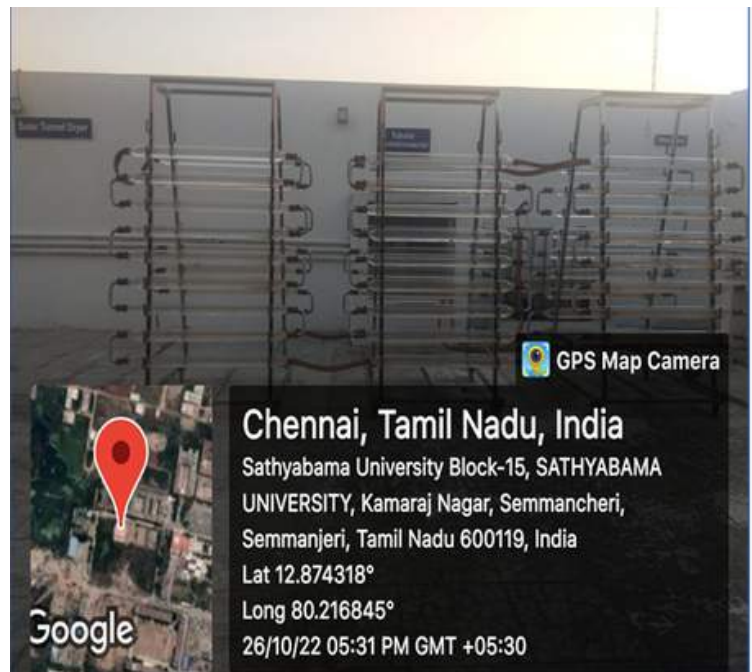
Solar Tunnel Dryer



Polychaete Culture Setup



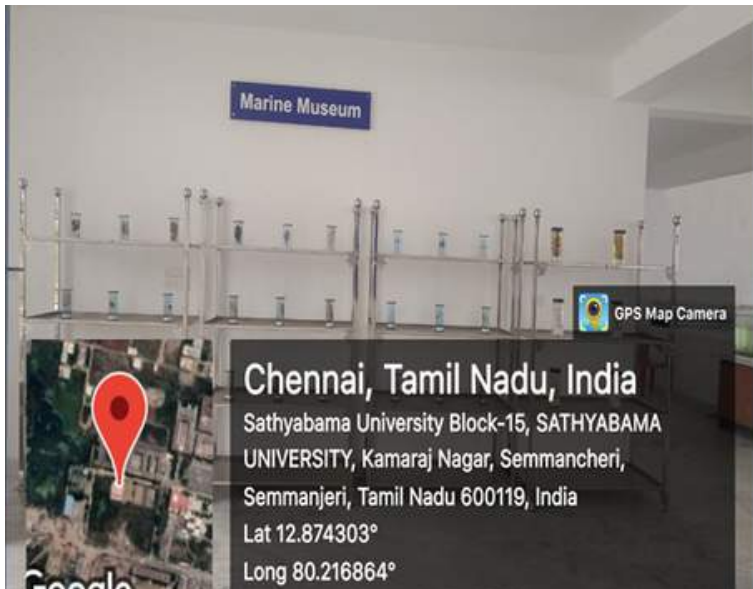
Tubular Photobioreactor



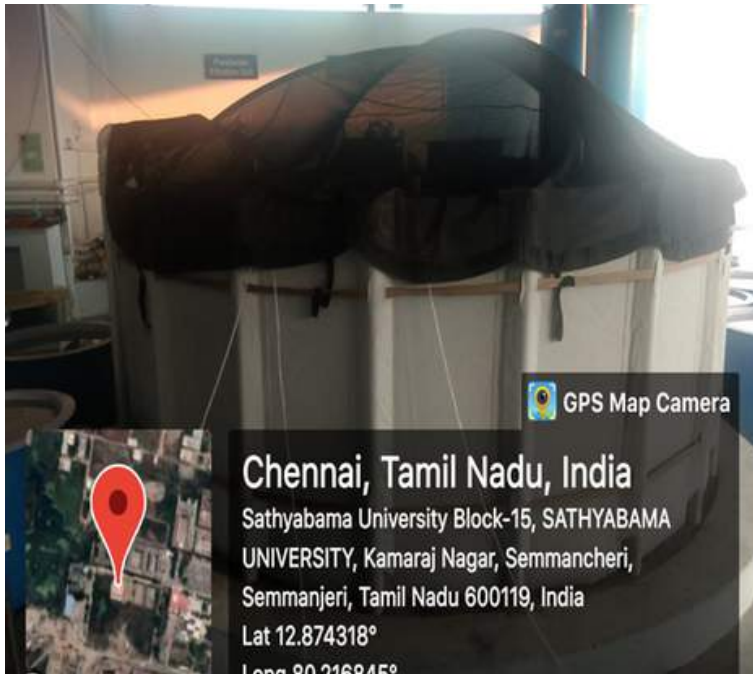
Continuous Flow through Diluter



Marine Museum



Animal Husbandry Facility



Algal Culture Rack



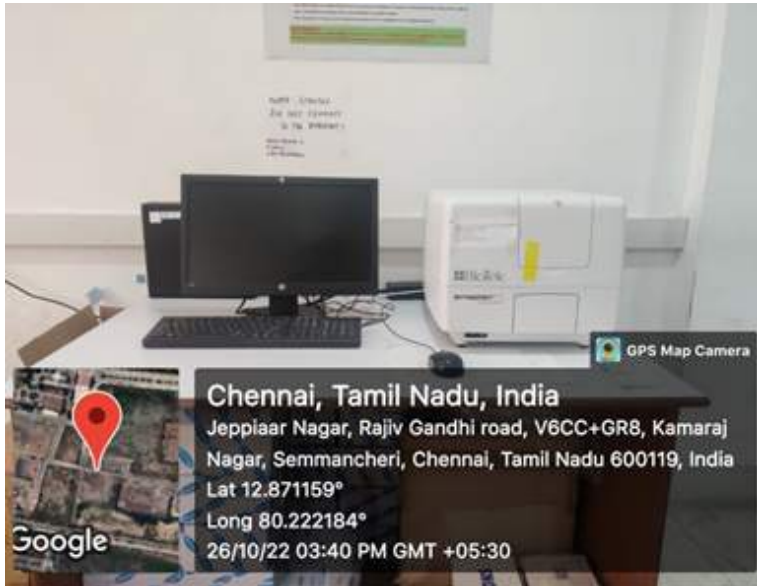
Laminar Air Flow Chamber



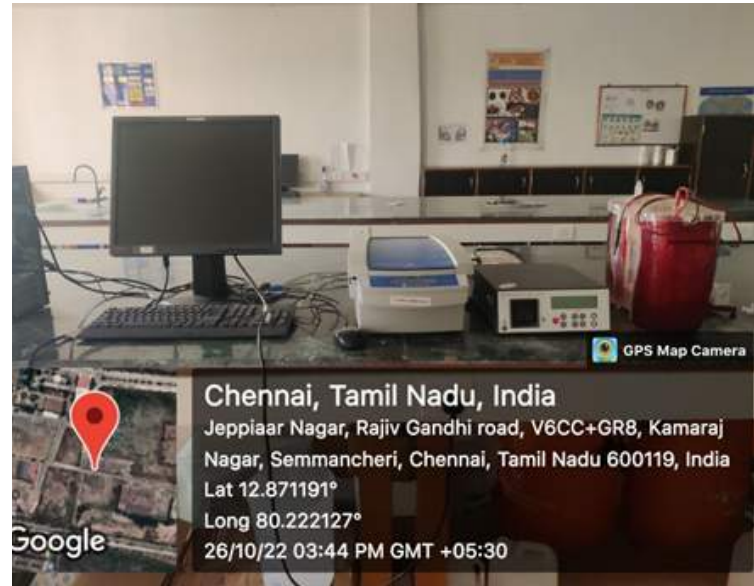
Millipore Unit



Multimode Microplate Reader



2D- Gel Electrophoresis



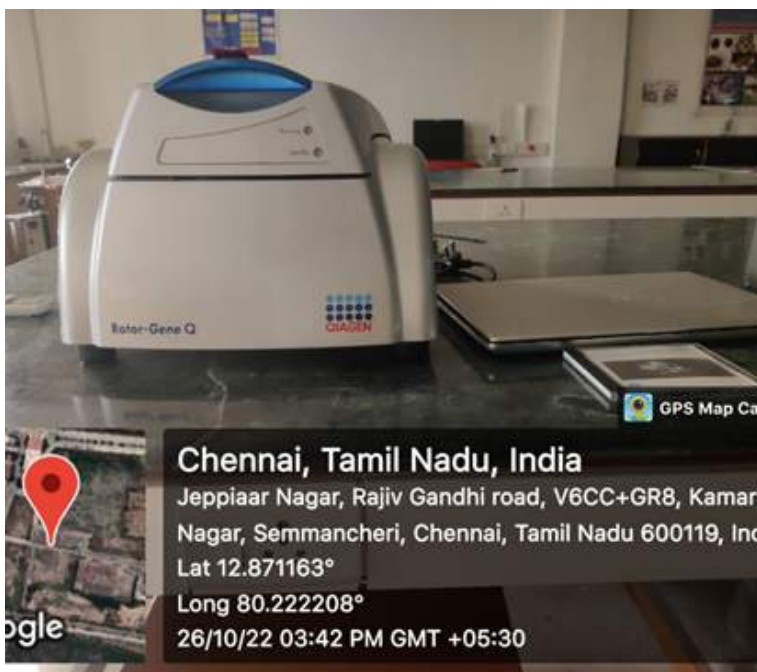
Millipore Vaccum Filtration Unit



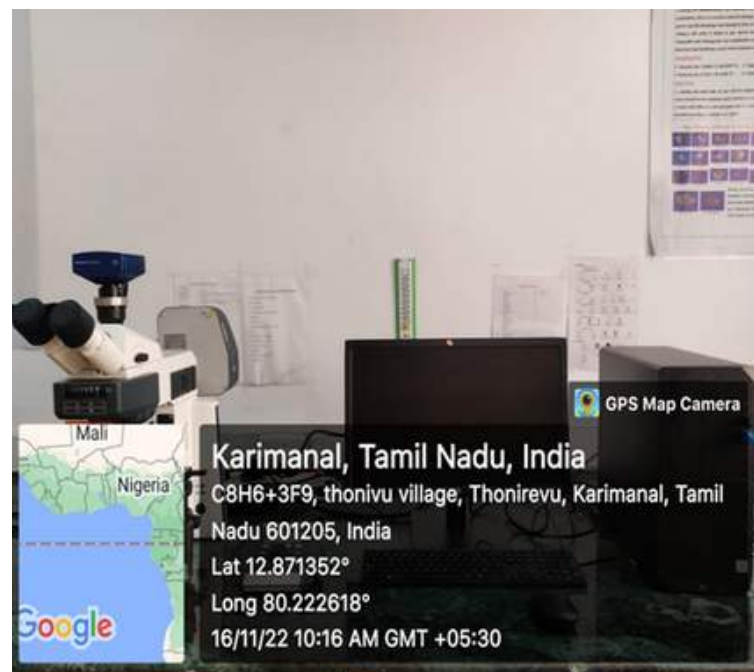
Contact Angle Measurement



RT-PCR



Microscope



Ultrasonic Flaw Detector



Densitometer



Electromagnetic Yoke



Radiography Film Viewer



Ultraviolet Black Light



Liquid Penetrant test - Sensitivity Panel



Hardness Tester



50 Meter Meteorological Tower



Ultrasonic Thickness Gauge



Automatic Rain Gauge Station



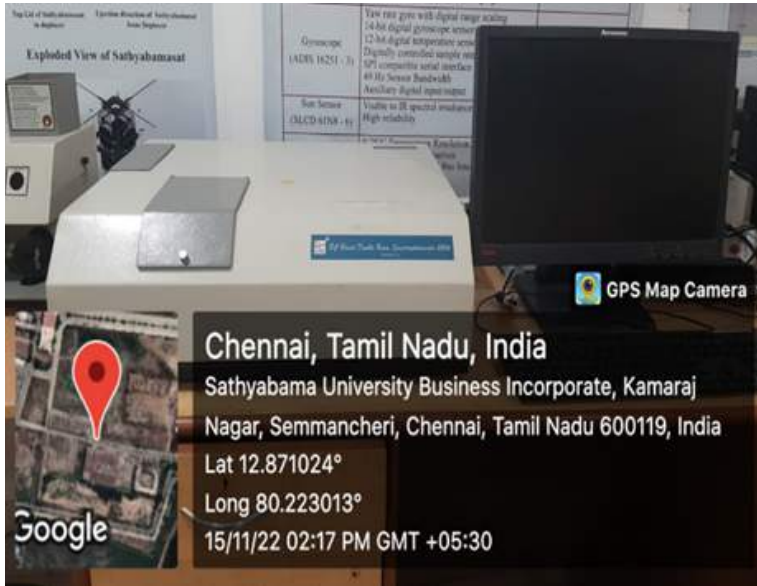
Residual Field Meter



Clean Room Facility



Hardness Tester



Air Sampler



Ultrasonic Thickness Gauge



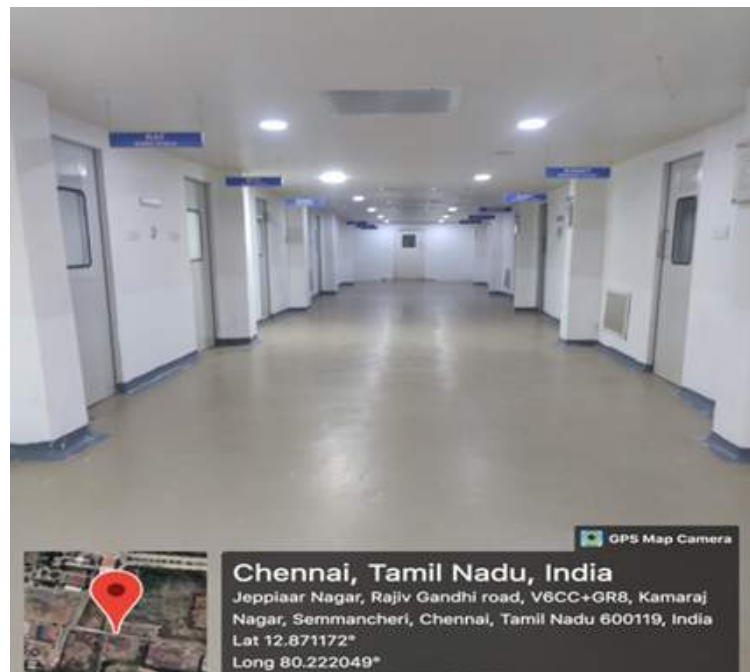
Animal Facility Gowning Area



Nikkon Streozoom Microscope



Animal Facility Clean Corridor



Animal Holding Room 1



X-ray Unit



Animal Holding Room 2



Fluorescence Microscope



Small Animal Operation Theatre



Fully Automated Analyser



RT PCR



Cold Room Facility



Geldoc Equipment



Air Handling Unit Facility



Cell Counter



Ventilator and Anesthetic Apparatus



Ministar



Surgical Micromotor



Hydrosolder



Surgical Airtor Straight Handpiece



Front Loading Autoclave



Cycle Ergometer



Incubator



Radiovisuograph



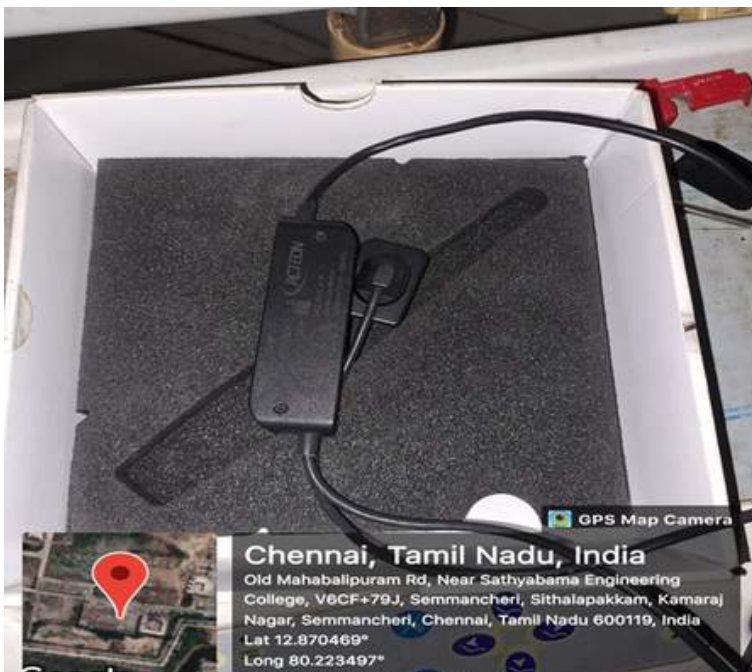
Compound Microscope



Intraoral X ray Unit



Radiovisuograph with CCD Sensor



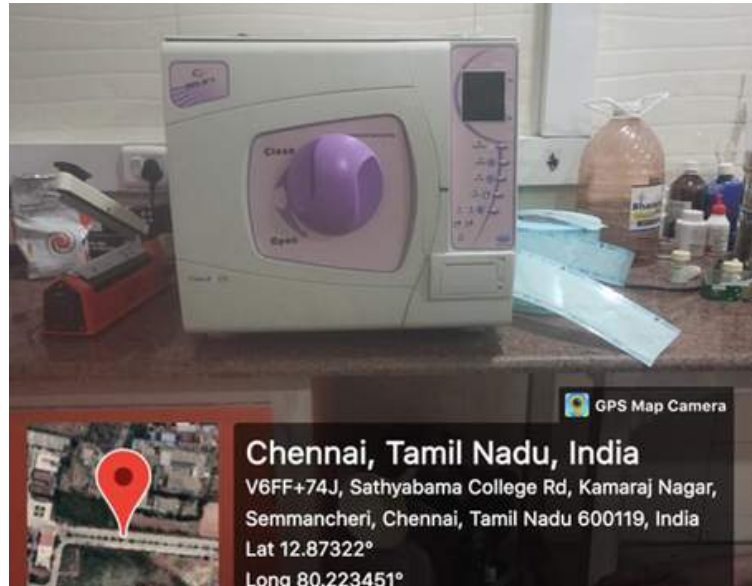
Autoclaves - 20 Litres



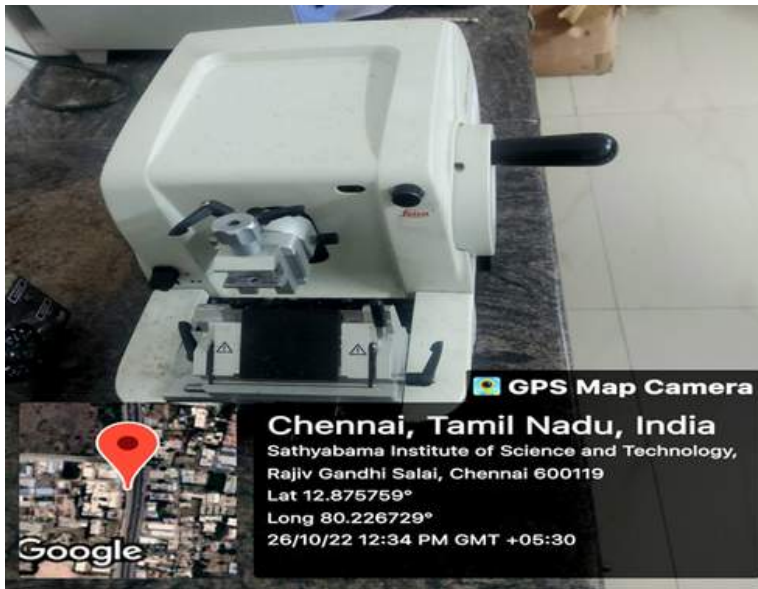
Fully Automatic Orthopantomogram with Cephalogram



Autoclave Class B



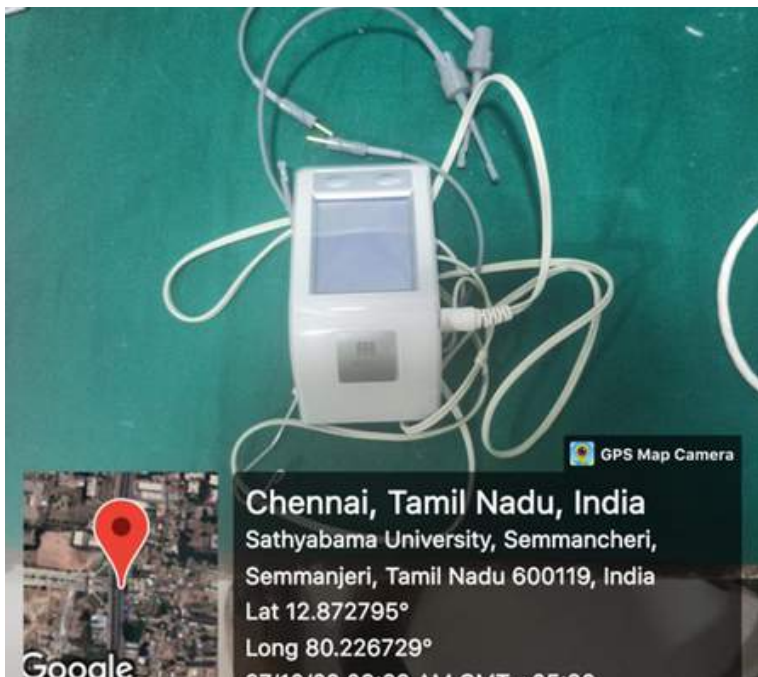
Leica Microtome



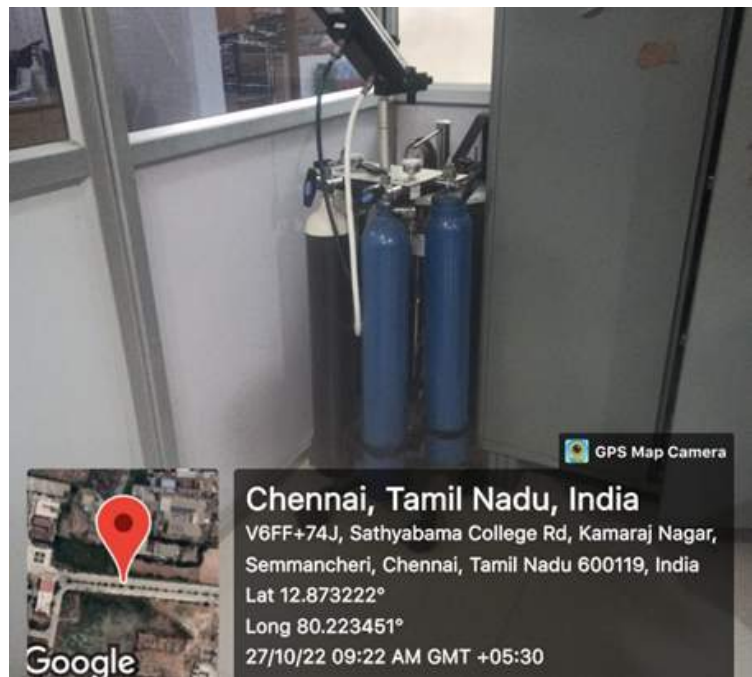
Calamus



Apex Locator



Conscious Sedation Unit



Endomotor



X-ray Machine



GA Trolley



RVG Sensor



Magnifying Loupes



Pressure Molding Machine



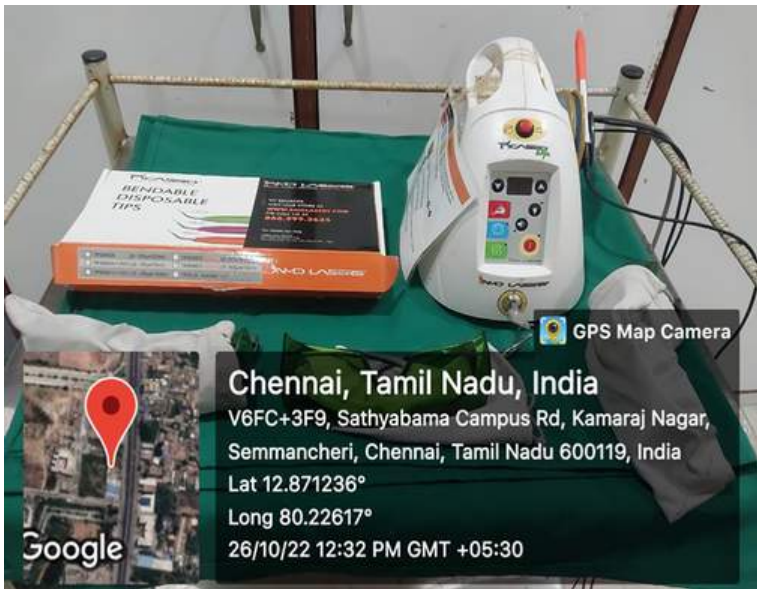
Steam Cleaner



Seiler Dental Microscope



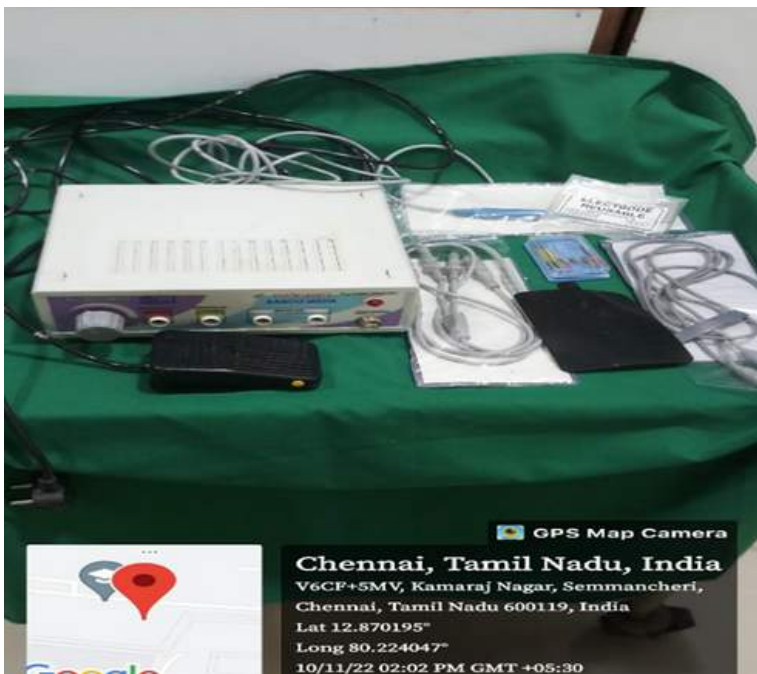
AMD Diode Laser



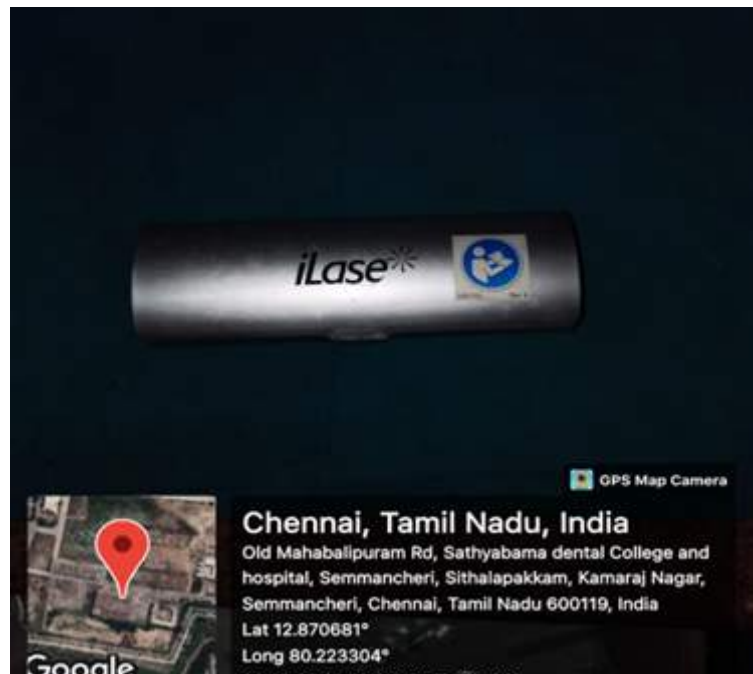
Fornax T – Induction Casting Machine



Electrocautery Unit



Soft Tissue Laser - I Lase



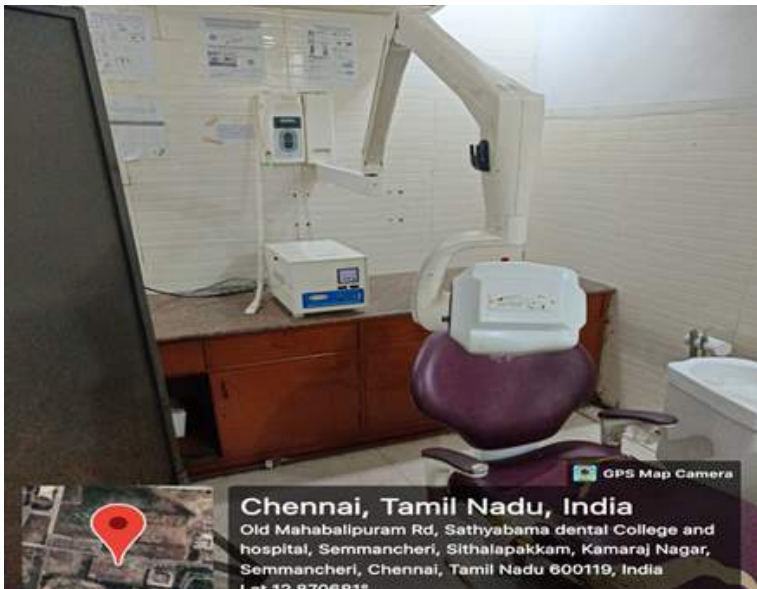
X Mind DC X ray – Fo3808 (Acteon)



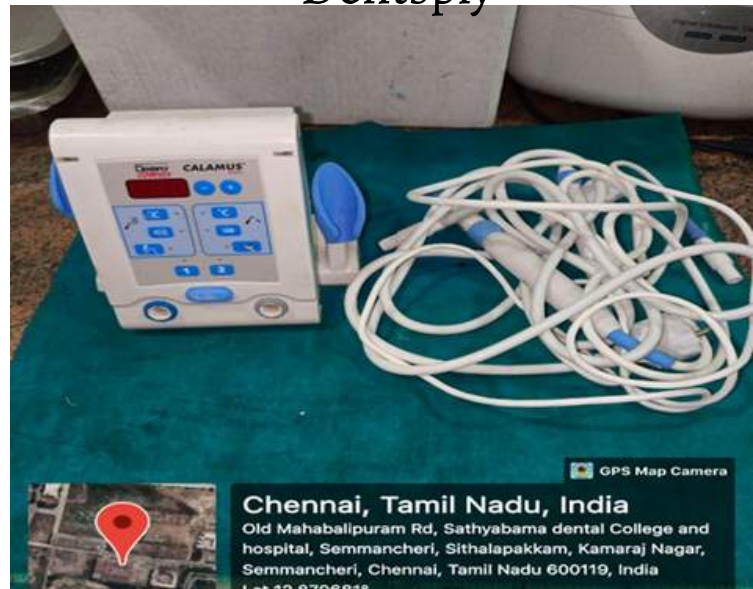
Calamus Obturation Unit - Dentsply



Satellac Wall Mounted DC Xray



Calamus Obturation Unit - Dentsply



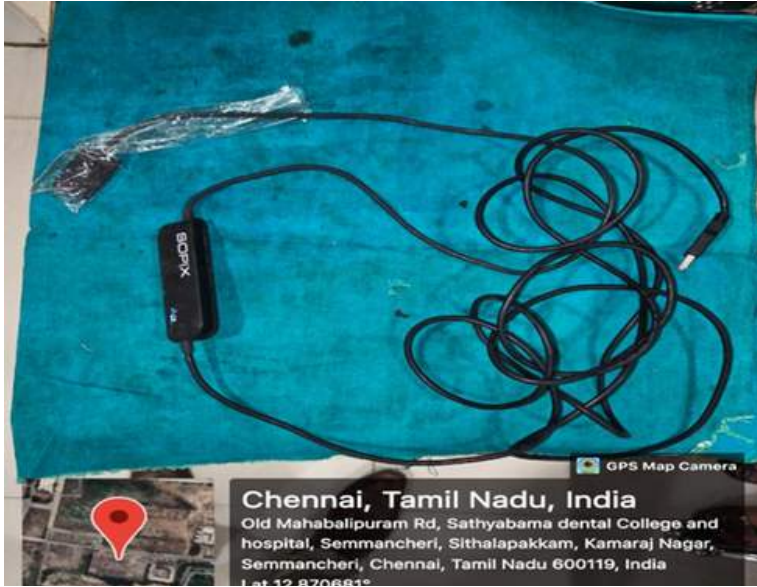
PSP- Durr Dental



Befill Obturation Unit - Dentsply



Satellac RVG



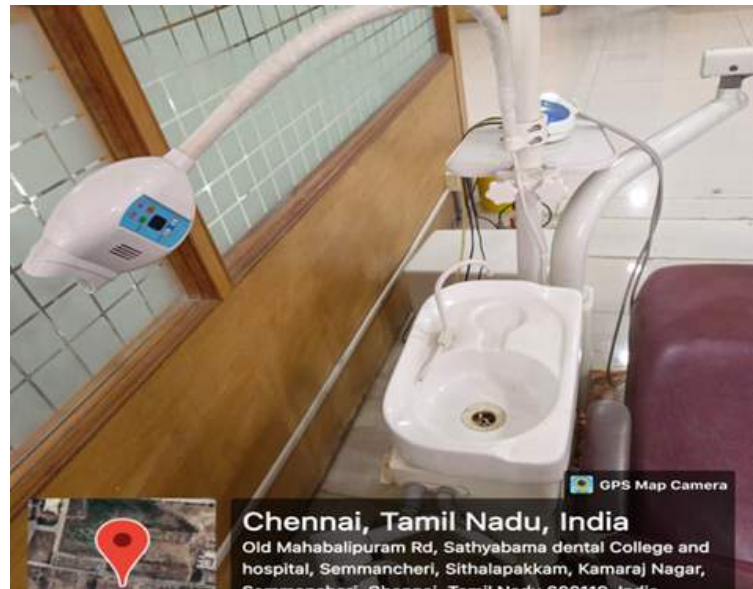
Laser Bleaching Unit



Automatic X ray Developer - Velopex



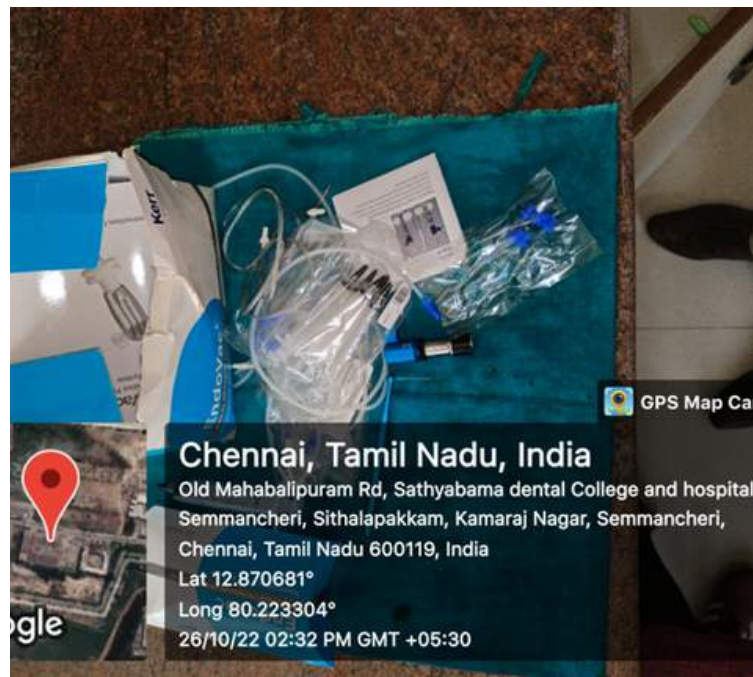
Laser Bleaching Unit – Chair Side



Microsurgical Instruments Kit



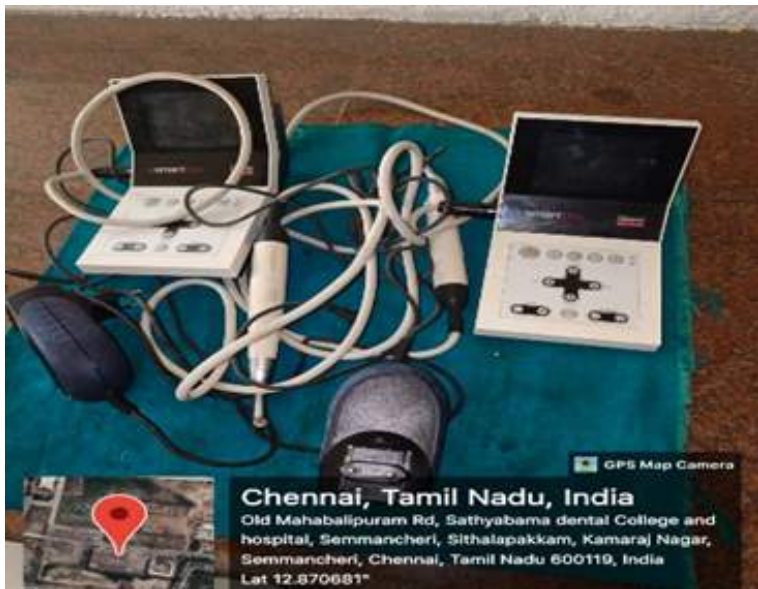
Endo Vac Irrigation Unit



Self Adjusting File - VATEA Pump Irrigation



X Smart Plus Dentsply - Rotary Unit



Potable X-ray Unit - Allerio



Dental Casting Machine



Physiodispenser



Induction Casting Machine



Ceramic Furnace



Spot Welder and Soldering Machine



Porcelain Furnace



Milling Machine



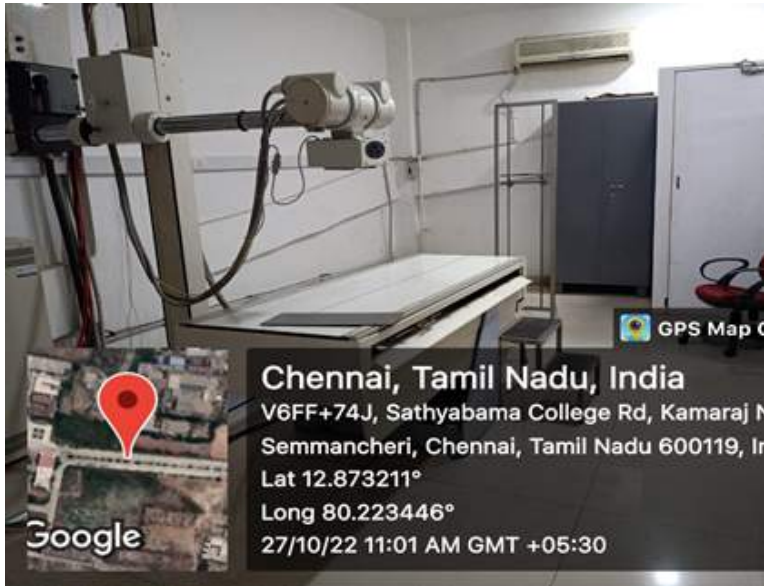
High Speed Lathe



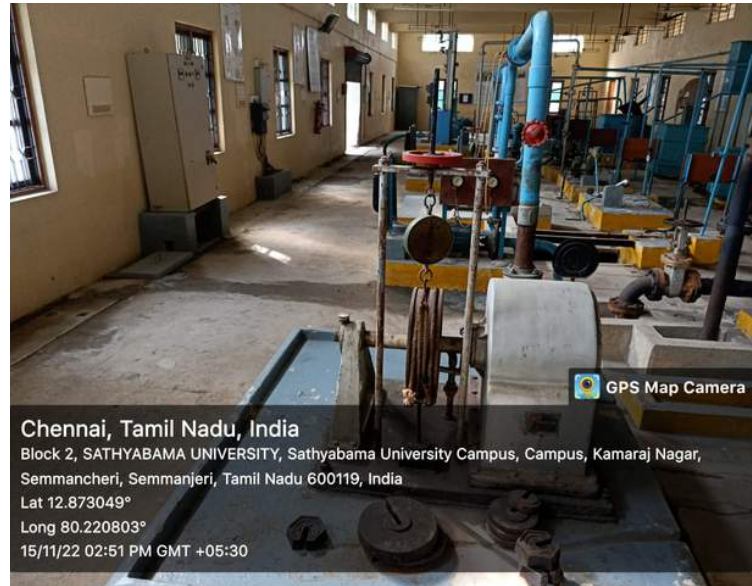
Rotary Microtome



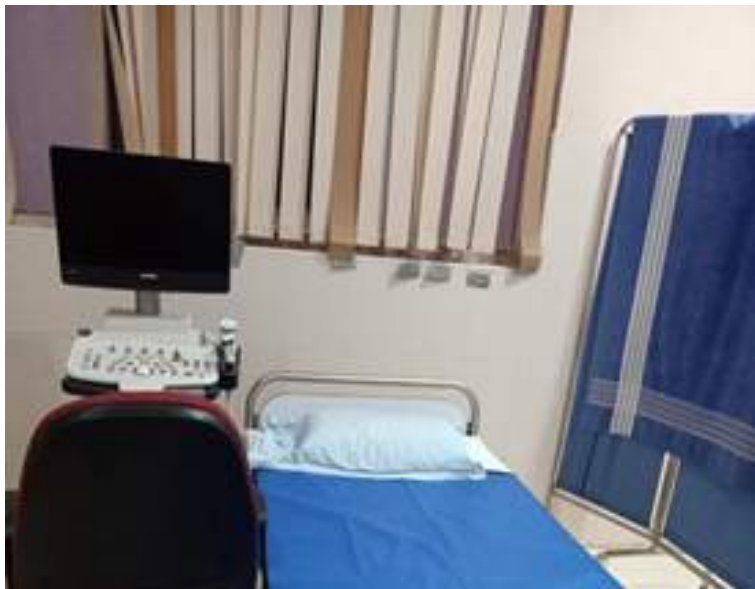
X-ray Unit



Pelton Wheel Turbine



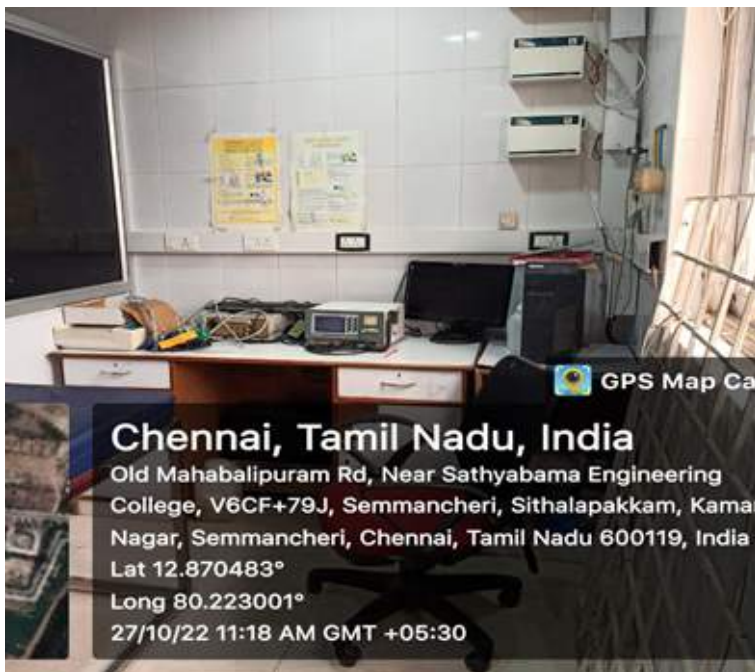
Ultrasound



Kaplan Turbine



ECG



Universal Testing Machine



Gas Analyzer



3D printer (Maker Bot)



Steam Boiler



3D printer (Maker Bot)



Wind Tunnel



Brinell Hardness Testing Machine



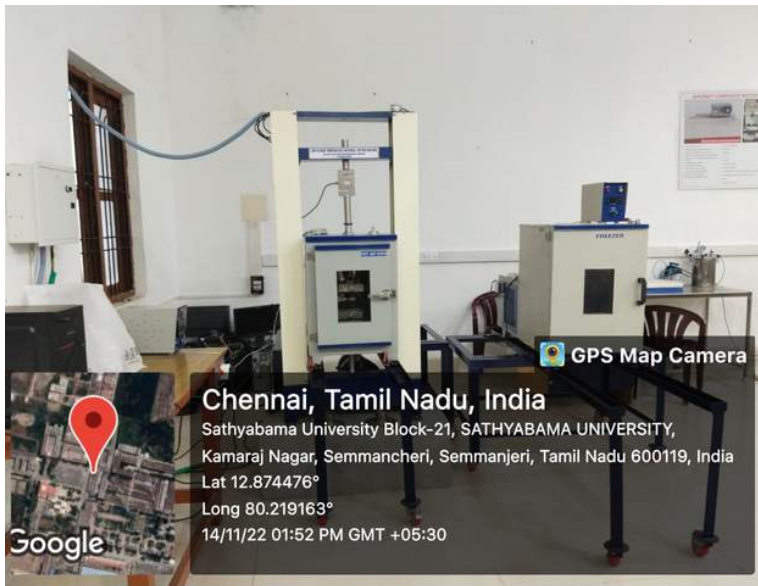
Free and Wall Jet Equipment



Subsonic Wind Tunnel



Universal Testing Machine



Axial Compressor



Polariscope



Nozzle Pressure Distribution



Pedodontics Dental Chair with Cartoon Monitor

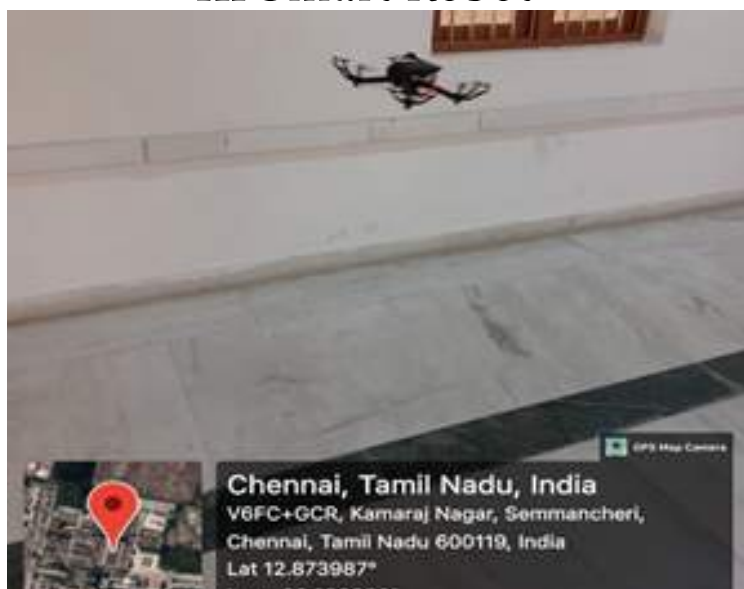
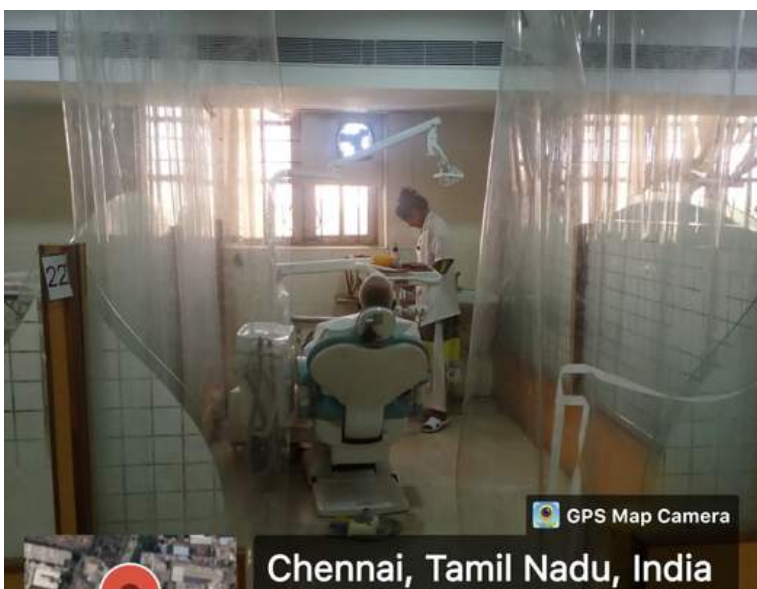


Dental Chair

Nvidia Jetson Nano Developer Kit



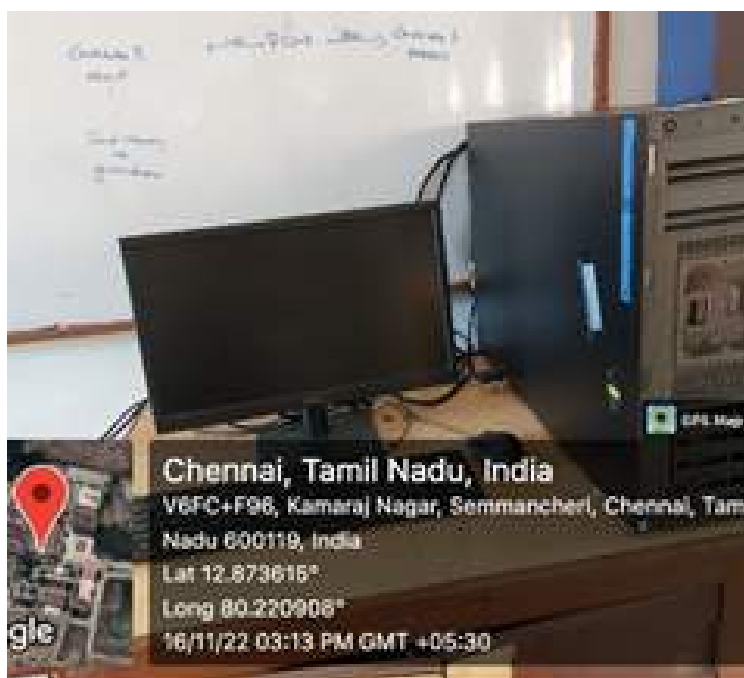
DIY ESP Drone Components and AI Smart Robot



Nvidia Jetson Xavier Developer Kit



Lenovo Tower Server ST550



NI Elvis III Trainer Kit



myDAQ: Measurement & Datalogging Hardware Bundle



myRIO: Embedded Monitoring & Control Hardware Bundle



5G Wireless Communication - NI SDR Hardware Bundle



Anritsu - Vector Network Analyzer



FCL - Advanced Fiber Optic Trainer Kit



Klystron based X-band Microwave Test Bench



AC Distribution Panel



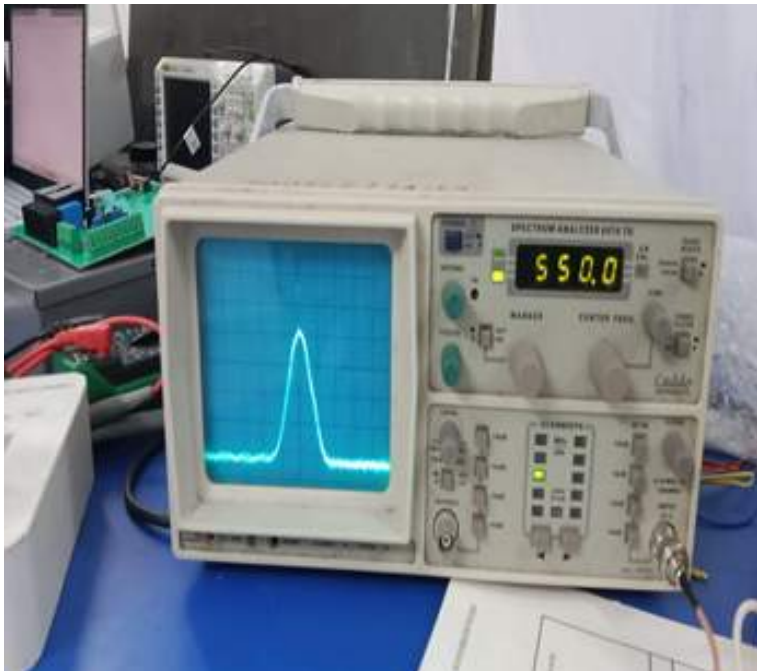
Microwave Antenna Radiation Measurement Setup



BLDC Motor Control Power Module



Spectrum Analyzer -1GHz



SRM Drive System with Loading Setup



Lithium Ion Battery Charger / Discharger



IGBT Module (Motor Driver) and DC Source



E-vehicle BLDC (HUB) Motor



Battery Simulator & Battery Simulator Software



RTGUI FPGA PWM Controller



Power Quality Analyzer



16 Channel Data Acquisition System



Torsion Testing Machine



Compression Testing Machine



Triaxial Shear Testing Machine



Flexure Testing Machine



Universal Testing Machine



Vicers Hardness Testing Machine



Total Station



Loading Frame



Photochemical Reactor



Chennai, Tamil Nadu, India
V6FC+6GV Sathyabama Garden, Kamaraj Nagar,
Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.873078°

Packed Bed

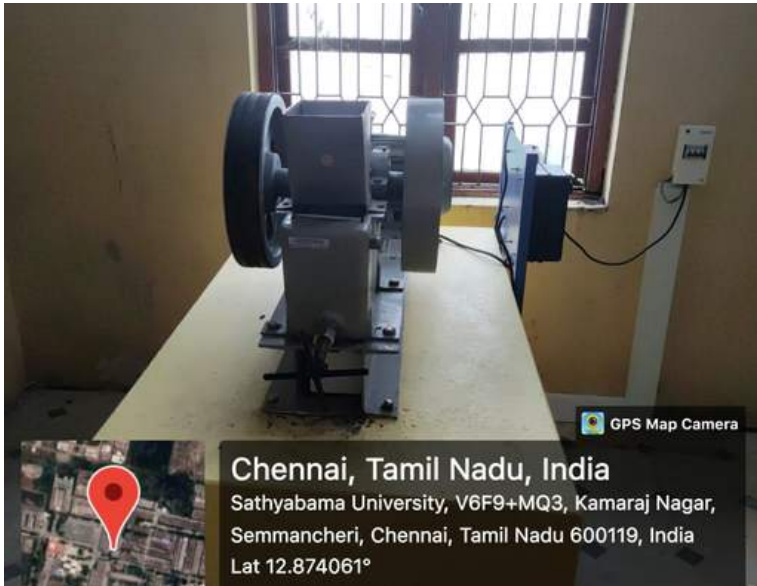


Ball Mill



Chennai, Tamil Nadu, India
Sathyabama University Block-23, SATHYABAMA
UNIVERSITY, Camps Rd, Kamaraj Nagar, Semmancheri,
Chennai, Tamil Nadu 600119, India
Lat 12.875074°
Long 80.219532°
21/11/22 10:02 AM GMT+05:30

Jaw Crusher



Biofermentor



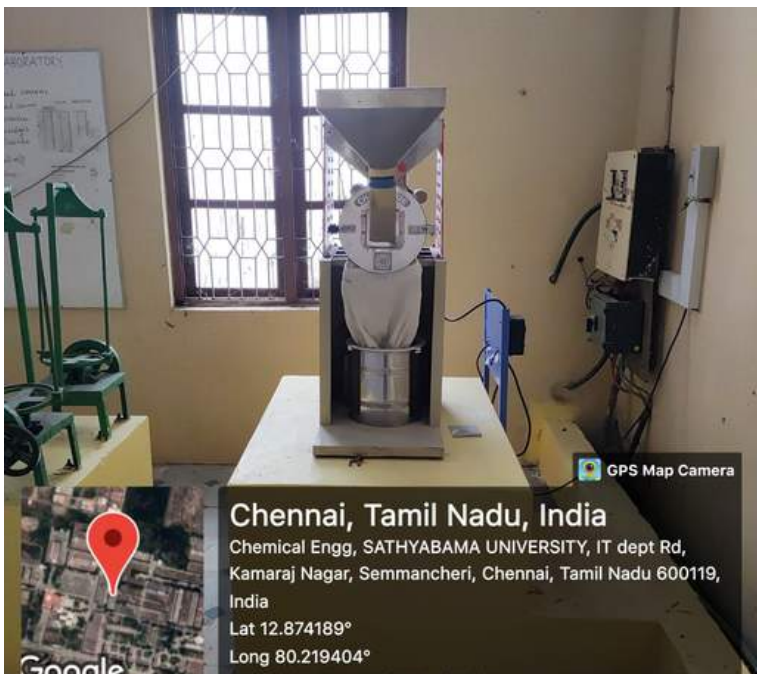
Cyclone Separator



Spectrophotometer



Hammer Mil



CO2 Incubator



Real Time PCR



Fluorescent Microscope



Cooling Centrifuge



Nanodrop



Cooling Centrifuge



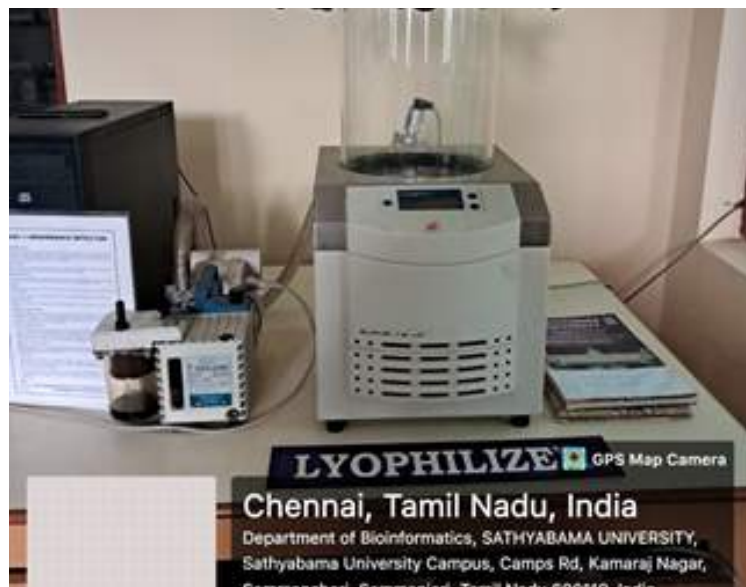
Ice Flaking machine



Gelocumentation System



Lyophilizer



PCR Machine



Stereo Zoom Microscope



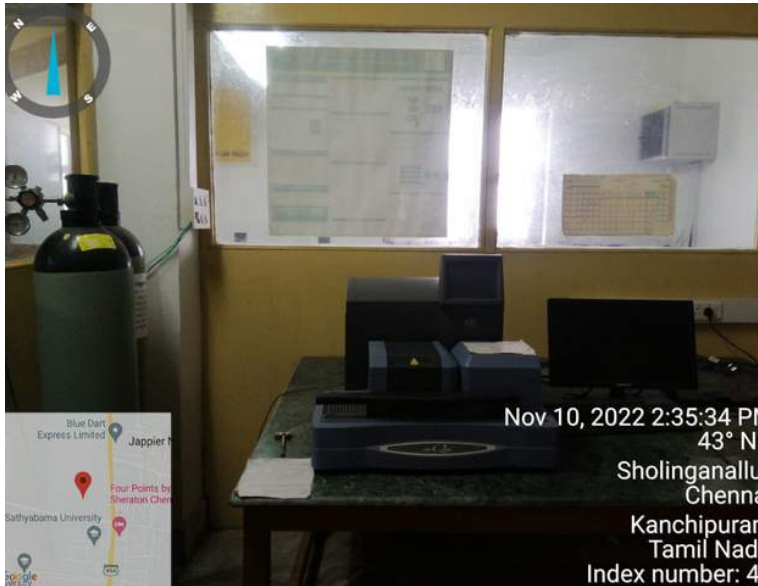
Fume Hood



FTIR Instrument



DSC-TGA Analyser



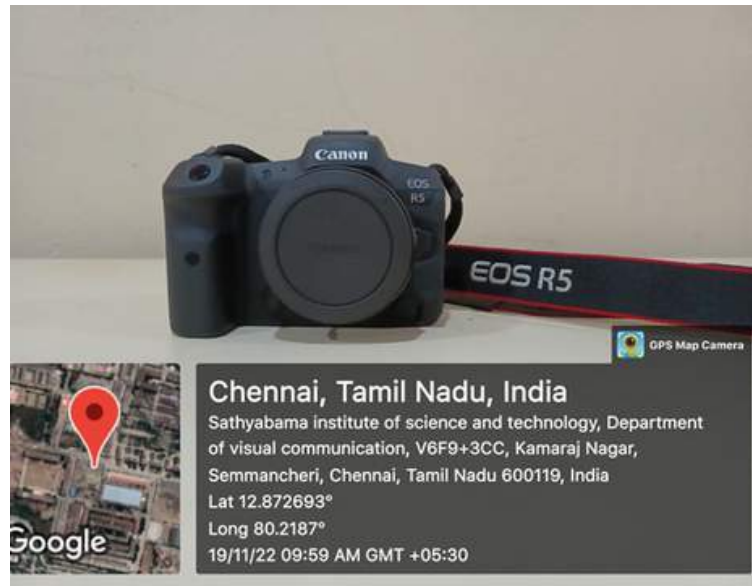
Data Video HD Recorder



Cooling Centrifuge



Canon EOS R5



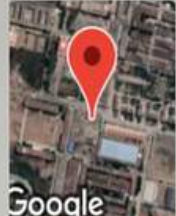
Bridgeman Furnace



Canon EF 70-200MM III USM Lens

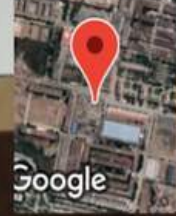
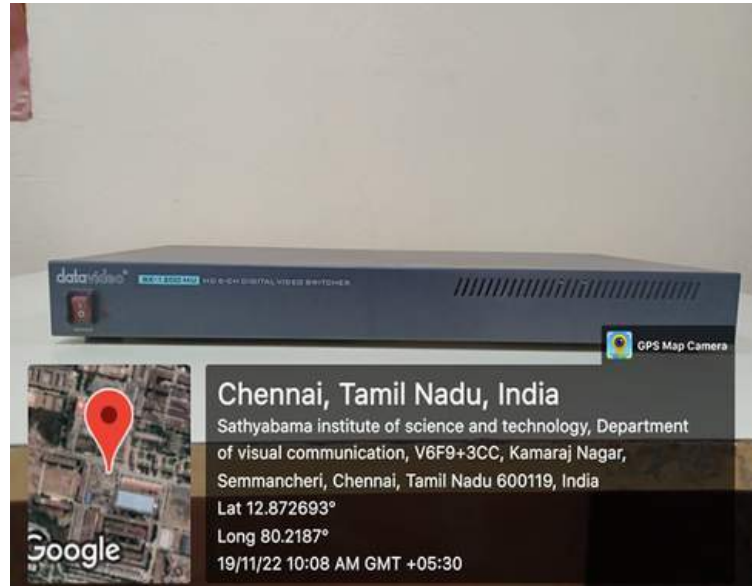


Canon 5D Camera



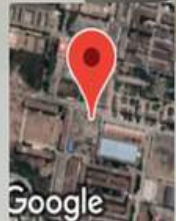
Chennai, Tamil Nadu, India
Sathyabama institute of science and technology, Department of visual communication, V6F9+3CC, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.872693°
Long 80.2187°
19/11/22 09:50 AM GMT +05:30

Data Video Switcher



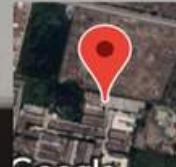
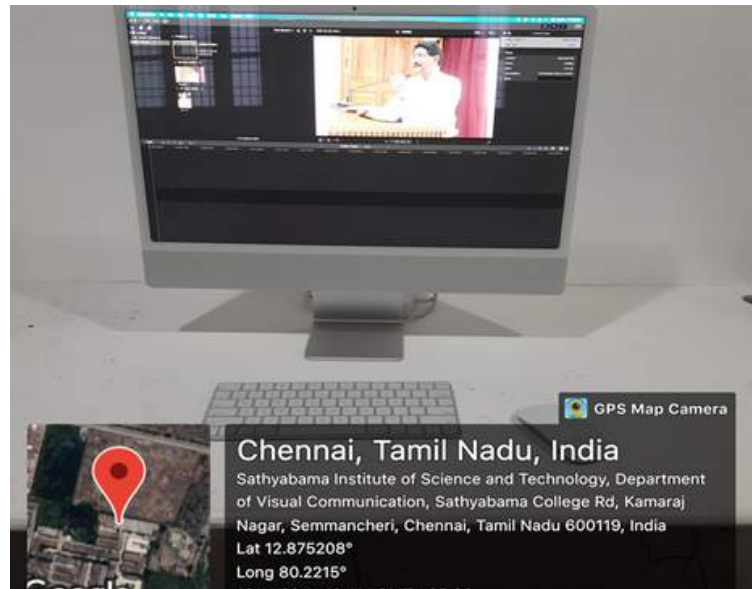
Chennai, Tamil Nadu, India
Sathyabama institute of science and technology, Department of visual communication, V6F9+3CC, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.872693°
Long 80.2187°
19/11/22 10:08 AM GMT +05:30

AJ-PX230END Panasonic Camera



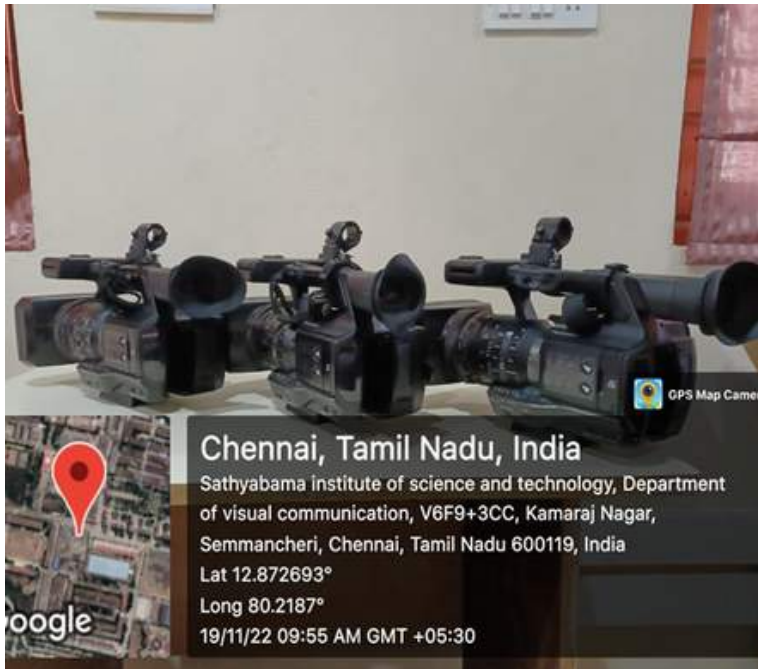
Chennai, Tamil Nadu, India
Sathyabama institute of science and technology, Department of visual communication, V6F9+3CC, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.872693°
Long 80.2187°
19/11/22 10:15 AM GMT +05:30

MGPD3HN/A: IMAC



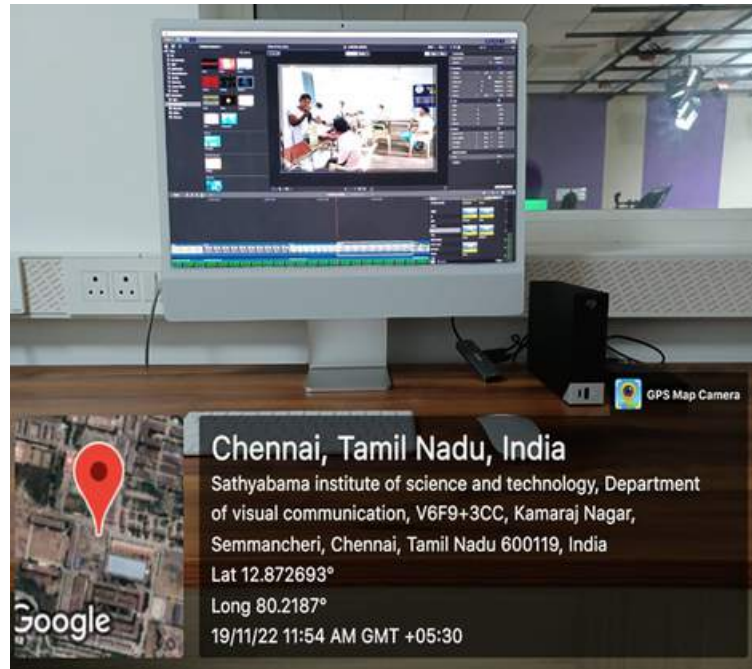
Chennai, Tamil Nadu, India
Sathyabama Institute of Science and Technology, Department of Visual Communication, Sathyabama College Rd, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.875208°
Long 80.2215°

AJ-PX230END Panasonic Camera



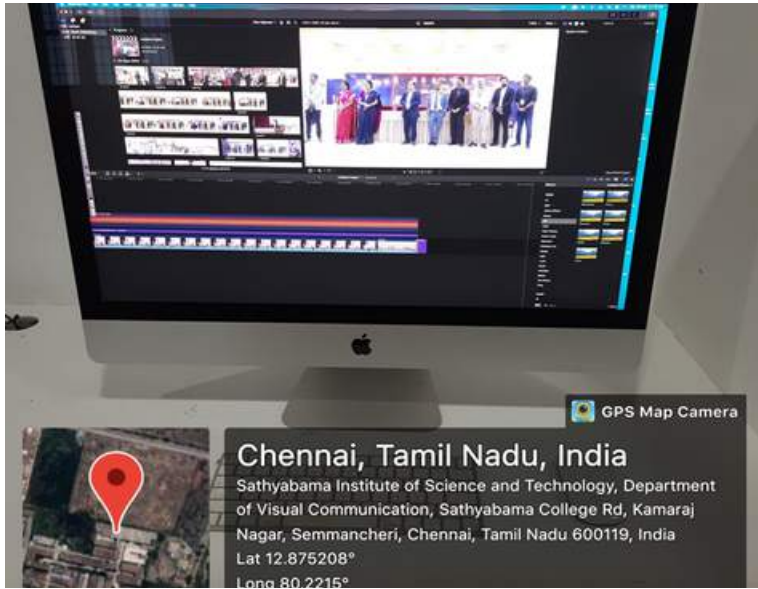
Chennai, Tamil Nadu, India
Sathyabama institute of science and technology, Department of visual communication, V6F9+3CC, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.872693°
Long 80.2187°
19/11/22 09:55 AM GMT +05:30

Media Centre - I MAC 24"

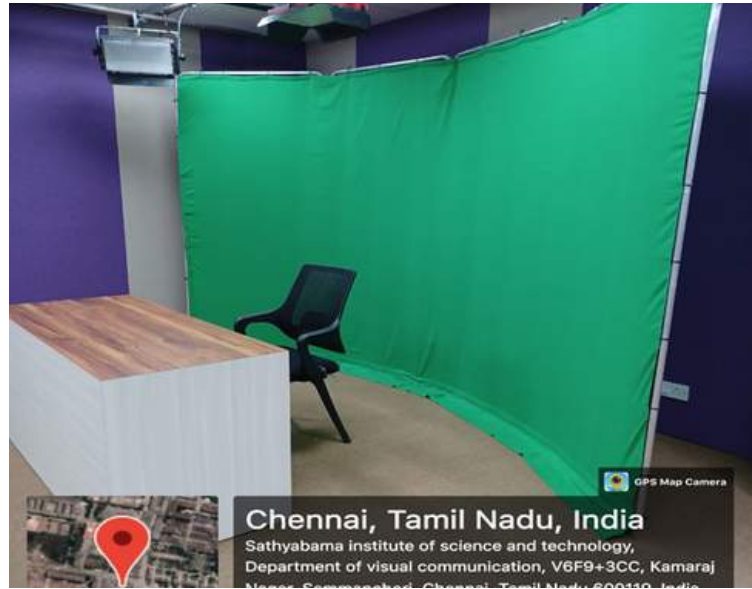


Chennai, Tamil Nadu, India
Sathyabama institute of science and technology, Department of visual communication, V6F9+3CC, Kamaraj Nagar, Semmancheri, Chennai, Tamil Nadu 600119, India
Lat 12.872693°
Long 80.2187°
19/11/22 11:54 AM GMT +05:30

IMAC 27"



Chroma



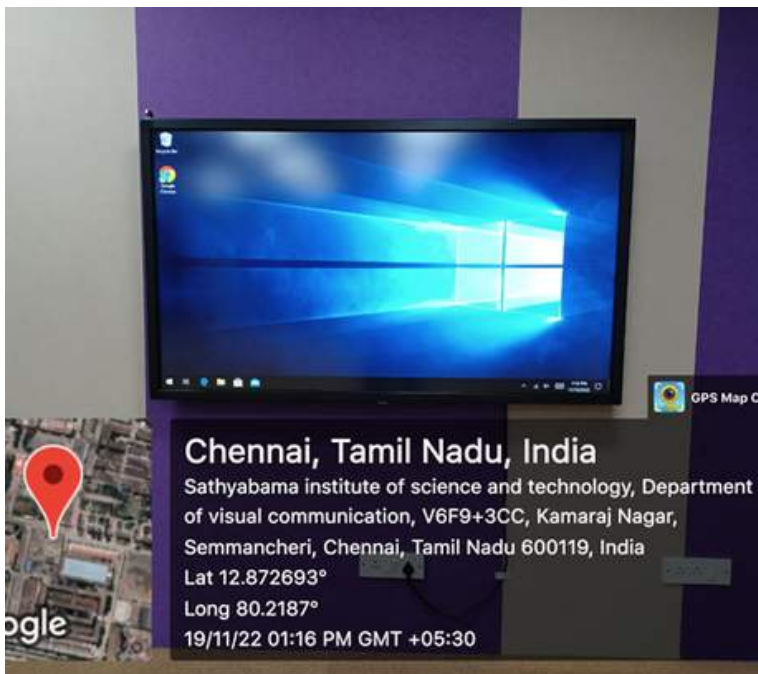
SAMVAD Tele Prompter & Panasonic AJ-UPX 360 4K HD



Dental Chair



Panasonic 65" LED LH-65TD3VS



Dental Chair

