LIST OF RESEARCH INFRASTRUCTURE AT AUH

Amity Institute of Biotechnology (AIB)

S.No	Institute	Block Room No.	Nameof Lab	Name of Instrument	Make/ Model No.	TechnicalSpecifications	Image
1.	AIB	A A108	Lipidomics facility	Q-trapmass spectrophotometer	SAciExq Trap 4500	MassRange Upto2000Da FeaturesTurboV,PulseCountingDetector DetectorType AcQuRatePulseCountingDetector ScanTypesQ1MS,Q3MS,ProductIon,PrecursorIon,NeutralLossorGain,MRM,EMS,EPI,ER, MS3,MRM3,TripleTrapScanning IonizationSources TurboV;TurbolonSpray;Atmospheric-pressurechemicalionization(APCI); DuoSpray®,andNanoSpray®III,PhytronixLDTD,AdvionLESAClarity,DigitalPicoView, NanoSource	
2.	AIB	A A107	CIRF imaging room	ConfocalMicroscope (ordered)	Nikon A1HD	Scan headinput/outputport 1laser inputport 2signaloutputportsforstandard,spectralandoptionaldetector*1FOV Ti2-E : SquareinscribedinaØ25mmcircle Ni-E/FN1 : SquareinscribedinaØ18mmcircle Imagebitdepth 4096grayintensitylevels(12bit) Recommendedinstallationconditions Temperature23±5°C,humidity70%(RH)or less (non-condensing) Zstep Ti2-E:0.01µm,0.02µm(withencodercontrol),FN1steppingmotor:0.05µm, Ni-E:0.025µm Compatiblemicroscopes ECLIPSETi2-Einvertedmicroscope,ECLIPSE FN1fixed stagemicroscope, ECLIPSENi-Euprightmicroscope(focusingnosepiecetypeandfocusingstagetype)	
3.	AIB	A A107	CIRF imaging room	Inverted fluorescence microscope	Nikon Ti2 Eclipse	Opticalsystem Infinity-corrected CFI60 Fieldnumber*2 22withC-mount,25withF-mount IntermediateMagnificationswitching Manualswitchingof1.0x/1.5x(exchangeablefrom 1.5xto2.0x) Statusdetection - Bertrandlens Manualin/out,andmanualfocus,Statusdetection - Outputport 4Motorizedpositions Eyepiece100%,left100%,right100%,eyepiece20%/left80% (Ti2-E/B:bottom100%) 4Manualpositions Eyepiece100%,left100%,right100%,option(toeyepiece 20%/left80%oreyepiece20%/right80%) Canaddportsbyuseofbackportunitand/orchoiceoftubebaseunit*3 Focusingunit Motorizeddrive,Coarse/finefocuschangeover,10mmstroke, Minimumincrements:0.01µm,0.02µm(withencodercontrol) Manualdrive, Coarse/finefocusingknob,10mmstroke	

4.	AIB	A A109	CIRF	Flowcytometry	BDlyrics		
5.	AIB	A A109	CIRF	UPLC	Waters Acquity Hclass		
6.	AIB	A A109	CIRF	Ultracentrifuge	Beckma n Optima Xpn		
7.	AIB	A A109	CIRF	Highspeedfloor-topcentrifuge	Beckman Avanti		
8.	AIB	A	Bioinnova research lab	Coldcabinet	GE Unichro mat 1500 PRO	• Available volumes 1500L/1700fortheAvant • Constant temperature of+4°C foryour Äkta-System Withlots of interior accessories /tobecustomized.	

9.		209A	Bioinnova Research lab	Low Temp shaker/incubator	Kuhner Model LXT With inbuilt refrigeration	Gasvolume260lWeight(withcooling)170kgIlluminationHalogen(2x10W)Operationmenuinde,fr,it, en,esInterface,standardCAN-BusInterface,optionalUSB,Ethernet,digital,analogue Ambient temperature 10°Cupto35°C•ShakingunitTray,sizeEX(500x420mm)Loading,maximum25kg Setting,digital1rpmAccuracy, absolute±0.1rpmTimer1s...999hAccelerationcontrolledActivebrake adjustableStoponpositionadjustable	
10.	AIB	A	Bioinnova research lab	Protein gel apparatus	Biorad MINI Protean Tetra Cell	Gelsize(WxL) Precast:8.6x6.8cmHandcast:8.3x7.3cm Glassplatesize(WxL) Shortplate 10.1x7.3cm Spacerplate 10.1x8.2 cm Totalbuffervolumefor2gels 700ml Totalbuffervolumefor4gels 1,000ml TypicalruntimesforSDS-PAGE35–45min(at200Vconstant) Recommendedpowersupply PowerPacBasicorPowerPacHC(HighCurrent) Dimensions(WxLxH) 12x16x18cm Weight 1.0 kg(2.2lb)	
11.	AIB	209A	Bioinnova research lab	Power Supplies	Hoefer PS200HC	Certifications/ComplianceEN61010-1, UL61010-1,CSA 22.2 1010.1 Dimensions(Lx WxH) 11x 4.9x 13.1 in. (28 x12.5 x 33.5cm) Hertz 50/60Hz Timer 0 to999 min. DisplayType LED	
12.	AIB	A	Bioinnova research lab	Nanodrop	Thermo Nanodrop2000 dc	Lamp XenonFlash MeasurementTime<3sec.No. ofSamples1 Pathlength(Metric)10;5;2;1mm PowerConsumption12VDC SampleVolume(Metric) 1000,0.5-2.0µL SpectralResolution=1.8nm(FWHMatHg253.7) SystemRequirementsMicrosoftWindows7Professional(32-bitand64-bit),Windows8(32-and 64-bit),andWindows10Pro(64-bit) Type Spectrophotometer Volume(Metric) 0.5to2.0µL Voltage 12VDC Wattage5W WavelengthAccuracy±1nm WavelengthRange 190-840nm Weight(English) 2.1kg	

						Weight(Metric) 2.0kg Width(English) 14cm Width(Metric) 14cm	
13.	AIB	209A	Bioinnova research lab	Low Temp Microcentrifuge	Eppend off 5415R	Volumerange 36mL 36mL Powersupply 230V,50 – 60Hz 230V,50 – 60Hz Max.powerconsumption 320W 170W Dimensions(W × D × H) 30 ×46 ×25 cm 21 ×30 ×21 cm Height(withopenlid)52cm 43cm Weightw/oaccessories 22kg 7.7kg Cooling refrigerated non-refrigerated Temperaturecontrolrange 0°Cto+40°C 0°Cto+40°C	
14.	AIB	A	Bioinnova research lab	AgaroseGel Apparatus	Hoefer HE33 submarine	Amperage500mA Certifications/Compliance EN61010-1,UL61010A-1, CSAC22.21010.1,CE Dimensions(LxWxH)Exterior9.4x5.1x2.8in.(24x13x7cm) Length(English) Gel3.9in. Length(Metric)Gel10cm	
15.	AIB	209A	Bioinnova research lab	Long VerticalGel Apparatus	Hoefer SE400-15-15	Amperage 60mA HumidityRange Upto80% Temperature (Metric) Maximum 45°C Thickness (Metric) Spacer 0.15cm Wattage 20w Width(Metric)Gel 18cm Width(Metric)Exterior 24cm	
16.	AIB	A	Bioinnova research lab	Electroporator	Biorad Gene Pulsar	Outputs Waveform Exponentialor square Voltage10–3,000V Capacitance10–500V,25–3,275µFin25µFincrements500–3,000V,10,25,50µF Resistance(parallel)50–1,000Ωin50Ωincrements,plusinfinity Sampleresistance20Ωminimumat 10–2,500V600Ωminimumat2,500–3,000V Square-wavetiming10–500V:0.05–10msin0.05msincrements,10–100mspulsein1msincrements, 1–10pulses,0.1–10secinterval500–3,000V:0.05–5msin0.05msincrements, 1–2pulses,5secminimuminterval Inputvoltage–120VACor220–240VAC,50/60Hz PowerMaximum240W(duringshortchargingperiods) Operatingenvironment Temperature0–35°C,humidity0–95%(noncondensing) Regulatory SafetyEN61010,EMCEN61326ClassA Dimensions(LxWxH) 13x12x12" Weight21lbs	

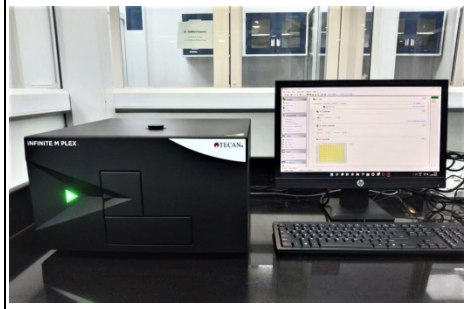
17.	AIB	209A	Bioinnova research lab	UV-crosslinker	UVP CL-100	Amperage 0.7A Hertz 60Hz ElectricalRequirements 115V60Hz Wattage 8w Weight(Metric)7.5kg	
18.	AIB	A	Bioinnova research lab	RoomTemp Microcentrifuge	Eppend orf 5424	Capacity24x1.5/2mL Max.RCF21,130xG ProgramStorage FastTempprogramprovides8min.pre-coolingandtemperatureaccuracy within rotor,FastTempprogramprovides 8min.pre-coolingandtemperatureaccuracy within rotor DisplayColorGraphicDisplay RunTime30 sec.to9hr.59min.withHOLD	
19.	AIB	209A	Bioinnova research lab	PCRThermo Cycler	Biorad C1000 Touch	Inputpower,W,maximum 850 Frequency,Hz,singlephase 50–60 Highresolutioncolordisplay,cm12x9 Ports(USBA/USBB)5/1 Fuses—2(A/V/mm)10/250/20 Onboardmemory,protocols >1,000 Dimensions(WxDxH),cm/in33x46x20/13x18x8Weight, kg/lb 10/23 Temperaturecontrolmodes Calculatedandblock	
20.	AIB	A	Bioinnova research lab	pH meter	Thermo Orion STAR A111	DataPoints 50 Languages English Stability SmartStabilityand SmartAveraging TemperatureProbeCalibration1pointtemperatureoffsetcalibration TemperatureRange(Metric) -5.0°to105.0°C Weight(Metric) 0.9kg ACAdapter Universal50-60Hz,100-240VACpoweradapter(Cat.No.1010003) Accuracy(mV) ±0.2mVor ±0.05%ofreadingwhicheverisgreater BatteryLife 2000hr.	

						Calibration pH,relativemV(RmV)andtemperature	
21.	AIB	209A	Bioinnova research lab	CellCultureHood	Atlantis (India)		
22.	AIB	A	Bioinnova research lab	Low Temp Microcentrifuge	Eppend off 5415R	Volumerange 36mL 36mL Powersupply 230V,50 – 60Hz 230V,50 – 60Hz Max.powerconsumption 320W 170W Dimensions(W × D × H) 30 ×46 ×25 cm 21 ×30 ×21 cm Height(withopenlid)52cm 43cm Weightw/oaccessories 22kg 7.7kg Cooling refrigerated non-refrigerated Temperaturecontrolrange 0°Cto+40°C 0°Cto+40°C	
23.	AIB	209A	Bioinnova research lab	Tissue Homogenizer	Omni Internati onal	ProcessingRange:25micro-litersto7.0mL PowerRating:100-230VAC/50-60Hz Dimensions:L:10in(25.4cm),W:8.5in(21.5cm),H:11.5in(29.2cm)Product Weight:16.5lbs. (7.48kg) Compliance:CE Compliance RunTime:1sec.to5min PerformanceRange:1m/s-5m/sinincrementsof1m/s NumberofCycles:1	
24.	AIB	A	Bioinnova research lab	TissueCulture Microscope	Nikon TS2 eclipse	Tube Ts2and Ts2-FL:Inclination:45degree;Pupillarydistance:50-75mm, Siedentopftype; Attachablecameraport;Eyepiece/Port:100/0:0/100 Ts2 E50L50:Inclination:45degree;Pupillarydistance:50-75mm,Siedentopftype;Fixedcamera port;Eyepiece/Port:50/50 Eyepiece(F.O.V.) 10X(22),15X(16),20X(12.5) FocusingVianosepieceup/downmovement,Stroke(manual):Up7mmdown1.5mmCoarse stroke:37.7mmperrotation,Finestroke:0.2mmperrotation,Coarsemotiontorqueadjustable NosepieceQuintuplenosepiece CondenserELWDCondenser(NA0.3、W.D.75mm) Slider PrecenteredorCenteringPHSlider,10X,20X,40XobjectivesavailableforPhaseContrast EmbossContrastsliders(bothcondenser-sidesliderandeyepiece-tube-sideslidermustbemounted), 10X,20X,40XobjectivesavailableforEmbossContrast	
25.		209A					

26.	AIB	A	Bioinnova research lab	RealTimePCR	Biorad CFX96 touch	Maximumramprate,°C/sec 5 Averageramprate,°C/sec 3.3 Heatingandcoolingmethod Peltier Lid,°C Heatsupto105 Temperature Range,°C0–100 Accuracy,°C ±0.2ofprogrammedtargetat90°C Uniformity,°C ±0.4well-to-wellwithin10secofarrivalat90°C	
27.	AIB	209A	Bioinnova research lab	Co2Incubator	Thermo Elecron LED Gmbh	ChamberMaterial Electropolishedstainlesssteel CO2ConcentrationRange 1to20% CO2SensorTechnologyIR180SIOxygenControl Optional1-21%or5-90% HumidityDelivery Coveredintegratedwaterreservoir RelativeHumidity ≥93%@37°C TemperatureRange(Metric) Ambient+3°to55°C DataOutputs USB,andoptional4-20mA Certifications/ComplianceCE,CSA Dimensions(DxWxH)Interior22.7x18.5x23.9in.(57.6x47x60.7cm)Capacity 5.8 cu.ft.,165Lperchamber	
28	AIB	ALG16	DBT-BUILDER Animal Tissue Culture Facility	Laminar Air Flow Hood	Atlantis, V-42	Inverted Laminar Air Flow Hood Size- 4x2x2 ft. approx	
29	AIB	ALG16	DBT-BUILDER Animal Tissue Culture Facility	CO_2 Incubator	Thermo Scientific steri cycle, Cat. No. 371	Air jacketed CO_2 Incubator for Animal Tissue Culture, Capacity 184 Liters	

30	AIB	ALG16	DBT-BUILDER Animal Tissue Culture Facility	Inverted Light Microscope with Camera	Magnus, INVI-LED	For bright field and phase contrast applications having 6v30w halogen light illuminator, quintuple revolving nose piece with magcam DC5 camrea.	
31	AIB	ALG17	Biotechnology-Teaching Lab	Light Microscope with Camera	Magnus, MX2li-TR-LED	Standard complete microscope set with DC5 Magcam camera, having objective lenses 4x, 10x, 40x, 100x objectives.	
32	AIB	ALG17	Biotechnology-Teaching Lab	Autoclave	Scientific systems, SVA-161	98 Liters, 450x600 mm boiler, 04 kw	
33	AIB	ALG07	Biotechnology-Teaching Lab	Light Microscope with Camera	Magnus, MX2li-TR-LED	Standard complete microscope set with DC5 Magcam camera, having objective lenses 4x, 10x, 40x, 100x objectives.	

34	AIB	ALG17	Biotechnology-Teaching Lab	Autoclave	Scientific systems, SVA-161	98 Liters, 450x600 mm boiler, 04 kw	
35	AIB	ALG12	DBT-BUILDER Biotechnology Lab	ULT Freezer (-80℃)	Thermo Scientific, Forma 900 series	490 Liters with semi cycle air jacket. Maintained temperature up to -85 ℃.	
36	AIB	ALG12	DBT-BUILDER Biotechnology Lab	Refrigerated Centrifuge machine	Eppendorf, 5430R	Cooling centrifuge machine with two rotors, 230V, LED-Microprocessor keypad.	
37	AIB	ALG08	DBT-BUILDER Microbial Culture Facility	Refrigerated incubator shaker	New Brunswick, Innova 42	Refrigerated orbital incubator shaker with BONUS universal platform having sticky pads for up to 4L flasks.	

38	AIB	ALG06	Students Research Facility- AIB	Refrigerated Water bath	Labman, RCB620	Refrigerated circulating water bath for incubation.	
39	AIB	ALG06	Students Research Facility- AIB	UV Visible Spectrophotometer	Shimadzu, UV1900i	Double beam, Touch screen display panel with Software based, UV Visible spectrophotometer.	
40	AIB	ALG06	Students Research Facility- AIB	ELISA Micro plate Reader	Tecan, F-50	Computer controlled micro plate reader along with software Magellan.	
41	AIB	A109	CIRF	Multimode micro plate reader	Tecan, Infinite 200	Advanced, Pro-monochromatic based micro plate reader, having additional function to read samples in curette. Capable for incubation and shaking facility.	

42	AIB	A109	CIRF	RT-PCR	BIORAD, CFX Opus 96	96 well Real time PCR, Heating	
43	AIB	A109	CIRF	PCR	Eppendorf, Mastercycle r	Conventional PCR Machine with 96 wells holders, Nexus gradient, 230V	
44	AIB	ALG12	DBT-BUILDER Biotechnol ogy Lab	Vertical Electrophoresis Unit	BIORAD, Mini-protein tetra cell	Small vertical electrophoresis unit for multi-holder, multipurpose. With power supply unit.	
45	AIB	ALG12	DBT-BUILDER Biotechnol ogy Lab	Horizontal Electrophoresis Unit	Genie	Medium size and small sized horizontal electrophoresis units with two power supply.	

46	AIB	ALG-6	SIF	ULT Freezer (-80℃)	Thermo Scientific, Forma 900 series	490 Liters with semi cycle air jacket. Maintained temperature up to -85 ℃.	

Amity Institute of Pharmacy (AIP)

S.No	Institute	Block Room No.	Name ofLab	Name of Instrument	Make/Model No.	TechnicalSpecifications	Image
1.	AIP	C-403	Pharmaceutics	Dissolution apparatus	Coslab	Twobasket	
2.	AIP	C-403	Pharmaceutics	Disintegration apparatus	Coslab	6 tubes	

3.	AIP	C-403	Pharmaceutics	Sieveshaker	Coslab	10 sieves	
4.	AIP	C-403	Pharmaceutics	Magnetic stirrer	Labman	Regulates the heatingupto 300 °C and 400 °C	
5.	AIP	C-403	Pharmaceutics	Laminarair flow	Laczene biosciences	HorizontalLAFwithHEPA	
6.	AIP	C-403	Pharmaceutics	Bulkdensity apparatus	Coslab		
7.	AIP	C-403	Pharmaceutics	Conductivity meter	Labman		

8.	AIP	C-403	Pharmaceutics	Ballmill	Coslab	AluminumDrumof1kg.capacity.	
9.	AIP	C-403	Pharmaceutics	Electronic balance	Wensar	Readability0.01g(10mg)	
10.	AIP	C-403	Pharmaceutics	Brookfield viscometer	Labman (LMDV-60)	MeasuringRangempa.s 20-2,000,000	
11.	AIP	C-403	Pharmaceutics	Hotplate	Laczene biosciences		
12.	AIP	C-403	Pharmaceutics	Homogenizer	Coslab		

13.	AIP	C-403	Pharmaceutics	Centrifuge	Remi	Sixtubes	
14.	AIP	C-403	Pharmaceutics	Crimping machine	Coslab		
15.	AIP	C-403	Pharmaceutics	Ampoule washing machine	Coslab		
16.	AIP	C-403	Pharmaceutics	Desiccator	Coslab	Circular	
17.	AIP	C-403	Pharmaceutics	Capsule counter	Coslab	24 capsulescapacity	

18.	AIP	C-403	Pharmaceutics	Clarity apparatus	Coslab	Woodenmaterial	
19.	AIP	C-410	Pharmacognosy	Compound microscope	Coslab	Lowandhighmagnificationpower(objectives10x,15x,45x)	
20.	AIP	C-410	Pharmacognosy	Vaccumpump	Coslab	Withpressuregauge	
21.	AIP	C-410	Pharmacognosy	Sterilitytest apparatus	Coslab	Stainlesssteelmade	
22.	AIP	C-410	Pharmacognosy	Heating mantle	Coslab	Automaticpowercut	

23.	AIP	C-410	Pharmacognosy	Compound microscope	Coslab	Lowandhighmagnificationpower(objectives	
24.	AIP	C-410	Pharmacognosy	Analytical balance	Coslab	Twopans	
25.	AIP	C-410	Pharmacognosy	IRmoisture balance	Coslab	TemperatureControlAccuracy:+-1C	
26.	AIP	C-405	Pharmacology	Organbath	Coslab	Singleorgantube	
27.	AIP	C-405	Pharmacology	Spirometer Hutchinson	Coslab	Withdrum	

28.	AIP	C-405	Pharmacology	Kymograph drum	Coslab	Singlerotatingdrum	
29.	AIP	C-322	Machineroom	Ampoule filling &sealing machine	Coslab		
30.	AIP	C-322	Machineroom	Autoclave	Coslab	45Litercapacity	
31.	AIP	C-322	Machineroom	Tabletcoating machine	Coslab		

32.	AIP	C-322	Machineroom	BOD	Coslab		
33.	AIP	C-322	Machineroom	Bottlesealing machine	Priya	Laboratoryscale	
34.	AIP	C-322	Machineroom	Hotairoven	Coslab	Laboratoryscale	
35.	AIP	C-322	Machineroom	Doublecone blender	Coslab	Laboratoryscale	
36.	AIP	C-322	Machineroom	Tablet punching machine	Coslab	Manual(Singlepunchingmachine)	

37.	AIP	C-322	Machineroom	UVcabinet	Coslab	EquippedwithUVbulb	
38.	AIP	C-322	Machineroom	Traydryer	Coslab	Loadingcapacity(48)	
39.	AIP	C-322	Storeroom	Sieveshaker	Coslab	Connectedwithmotor	
40.	AIP	C-401	Pharmaceutical chemistry	Distillation unit	Coslab	Stanelesssteel	
41.	AIP	C-401	Pharmaceutical chemistry	Halogen Moisture balance	Wensar	TemperatureRangeupto200ºC	

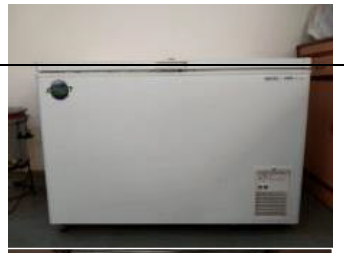
42.	AIP	C-401	Pharmaceutical chemistry	Melting/ Boilingpoint apparatus	Coslab	Range40°Cto350°C	
43.	AIP	C-401	Pharmaceutical chemistry	Flame photometer	VSIelectronics (VSIF2)	LaboratoryUse	
44.	AIP	C-401	Pharmaceutical chemistry	Analytical balance	Wensar	ElectroMagneticForceCompensation.	
							

Amity School of Earth and Environmental Sciences (ASEES)

S.No	Institute	Block Room No.	Nameof Lab	Nameof Instrument	Make/Model No.	Technical Specifications	Image
1	Amity Schoolof Earthand Environm ental Sciences	Block A; Room no.415	Environmental microbiology researchlab	LaminarAir Flow	Optics technology	WORKING TABLE OF S.S. 304. HEPAof0.3mof anefficiencyof99.97%downto 0.3m Confirm InternationalStandard 209 E. Statically Balanced motorblower Assembly (Heavy Duty) Velocity attheoutputofHEPAis90+20FPM Work areaproperlyilluminatedby diffusedglarefree fluorescentlight. StaticPressureManometer U.V.Light1x30/15watts.	

2	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	B.O.D Incubator shaker	Laby	DoubleWalledOuter steel powder coatedtemp.5'to50ChavingHeat/cooling arrangementthermostat,Chamber size10CubicFeet with shaker withhigh and low speed shakingswitch with special4fluorescenttubes andprogrammable timer	
3	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Refrigerated centrifuge	Laby	Max. Speed 16000 rpm Voltage 220v Frequency50 Hz	
4	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	pH meter	HANNA Instruments; HI2215	pH Range -2.0 to 16.0pH; -2.00 to16.00pH; -2.000to 16.000 pH pH Resolution: 0.1pH;0.01pH;0.001 pH pH Electrode:HI1131B glassbody pHelectrodewithBNCconnector Temperature ProbeHI7662stainless steel temperature Dimensions 235x 222 x 109mm(9.2x8.7x4.3”)	
5	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Electronic Balance	WENSAR; HBP220	LowBatteryIndication AutoCalibrationwithExternal Weight MultifunctionWeighingUnits AutoZerotracking. OverloadProtection DesignS.S.WeighingPan,Level indicator,AdjustableFit HighResolution, QuickWeighing,AccurateResult	
6	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Mechanical Shaker	SonuLab Services	Flasklimitation:9 innumber MaximumRPM: 200	

7	Amity Schoolof Earth and	Block A; Room	Environmental microbiology researchlab	Deep freezer (-20degree)	Voltas	Gross Volume(InLtr.):90L ProductDimension [mm]:550X565X830 Packed Dimension [mm]:610X620X870	

	Environmental Sciences	no.415				NetVolume (InLtr.):83	
8	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Waterbath	BIOPORT	Temperaturecontroller From30 to110°C	
9	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Distillation unit	SonuLab Services	Glassunit	
10	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Microwave oven	Godrej	Convection 20 - 22L TactDialType 10	
11	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Autoclave (mini)	Satyam Scientific Instruments	Volume 20L,stainlesssteel body	

12	Amity Schoolof Earthand Environmental Sciences	Block A; Room no.415	Environmental microbiology researchlab	Incubator (Oven)	LABMAN: DH3600BII	Stainless steelInner chamber &Outerbodyelectrostaticspraying exterior Micro-computertemperaturecontroller withfunctionoftiming and over-temperatureprotection.Tempraturerange30-60degreeC. Highbrightnessdigitaldisplay,Tightnessofdoorisadjustable	

Name of Department/Institute–ECE/ASET

S.No	Institute	Block Room No	Name of Lab	Name of Instrument	Make/Mode l No.	TechnicalSpecifications	Image
1	Amity Schoolof Engineeringand Technology	Block C-Room No-C-211	VLSILab	Electronics PCB Design Machine	LPKF PtrotoMet S43	**Max.materialsizeandlayoutarea(X/Y/Z)** 229mm*305mm*27mm. **Resolution(X/Y)**(0.02mil). **Repeatability** (+ -0.4mil), **Millingspindle**Max.40,000rpm,softwarecontrolled. **Toolchange**Manual,quick-releaseholder. **MillingWidthadjustment**ManualTool holder 3.175 mm **Drillingspeed**100strokes/min **Travelspeed(X/Y**)Max.150mm/s **Dimensions (W*H*D)**670mm*540mm*840mm **Weight**55kg **Operatingconditions** **Powersupply**90-240V,50-60Hz,450W	

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Amity School of Applied Sciences (ASAS)

1.	ASAS	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Mufflefurnace	Tempcon	TemperatureRange:40º-1200º	
2.	ASAS	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	SpinCoating Setup	DELTASPIN-1	FilmThicknessRange:Fewnm tofewmicrometer	
3.	ASAS	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Ultrasonicator	LMUC-2	Capacity:1.8L TankDimension: 150x137x100 UltrasonicPower:50W HeatingPower:100W TimeSetting:1-99min HeatingTemp:0-80ºC Display:DigitalREDLED Frequency:40kHz LidMaterial:SS304 InnerTankMaterial:SS304 OuterTankMaterial:SS201 PowerSupply:AV220V/50Hz	

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4.	ASAS	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Magnetic stirrerwith hotplate		Temperaturerange0-100ºC	
5.	ASAS	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Microwave ovenfor nanomaterial's synthesis	17PM-MEC1	Rating:230V/50Hz Microwave(Input):1200W Output:700W MWFrequency:2450MHz	
6.	ASAS	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Hydrothermal Autoclave		OuterMaterial: InnerMaterial:Teflon,PPL TemperatureRange:150ºC PressureRange:±3 MPa	

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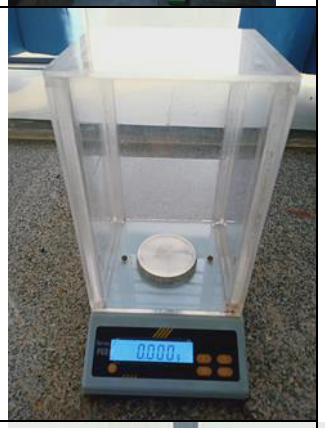
7.	Amity Schoolof Applied Sciences	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Hydraulic Press		Pressure:0-5ton	
8.	Amity Schoolof Applied Sciences	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	HighPrecision Electronic Balance	RIC-401D (3003SERIES)	300GM/1MG	
9.	Amity Schoolof Applied Sciences	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	Centrifuge Machine		5000rpm	

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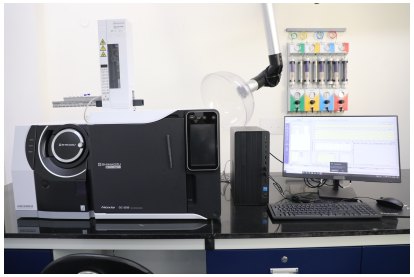
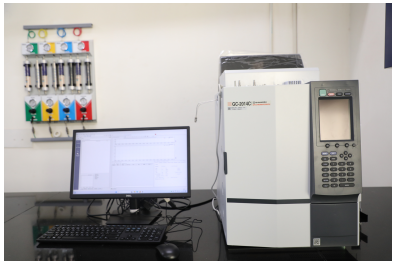
10.	Amity Schoolof Applied Sciences	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	HotAirOven	Tempcon	PIDoperation ManualOperation Fan	
11.	Amity Schoolof Applied Sciences	BlockA, Room No. 419A	Electronic Materialsand Nanomagnetism Lab(EMNL)	P-ELoop Tracer	MARINEPE–01PELoop TracerSystem	PEmainunit Sampleholder DesktopPC Determinationofspontaneous polarization(Ps) DeterminationofRemnant polarization(Pr) Determinationofcoercivefield (Ec)	
12.	ASAS	A217	ChemInnova	GC-MS	Shimatzu	GC-MS with autosampler	
13	ASAS	A217	ChemInnova	GC with TCD and FID	Shimatzu	GC with Autosampler and TCD/FID detector	

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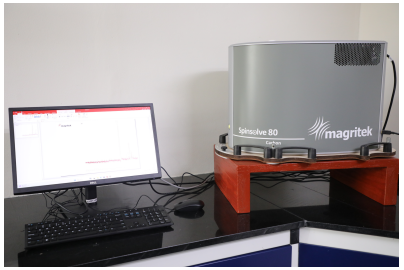
14	ASAS	A217	ChemInnova	Table Top NMR spectrometer	Magritech	Table top NMR capable of 2D and heteronuclear (^{1}H, ^{13}C and ^{19}F)	

Amity Centre for Ocean-Atmospheric Science and Technology (ACOAST)
&
Amity Centre for Environmental Science and Health (ACESH)

S. No.	Instituteand Location	Nameof the Laborator y	Nameof the Instrumen t	Make, ModelNumber & Parameters/DataProducts	Technical Specifications	Imag e
1.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401 (Terrace)	Solar Radiometry Laboratory (SRL)	NASA-AERONET Multi-SpectralSun-SkyRadiometer	CIMELSun-SkyRadiometer Model# 556 Robot,Collimator,Telescope Parameters/DataProducts AerosolOpticalDepth(AOD), AngstromExponent(AE),Size Distribution(SD),Single ScatteringAlbedo(SSA), AsymmetryParameter(AP), RefractiveIndex(RI), Fine- and Coarse-mode Fraction, Water Vapor (WV),	OperatingWavelengths: 340nm,380nm,440 nm, 500nm,675nm,870nm, 1020nmand1640nm; Samplinginterval:15 minutesorfixed airmass;Data Uploading:Manualor Auto;DataProcessing Algorithm:Cloud- screening.	

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3.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401 (Terrace)	Solar Radiometry Laboratory (SRL)	NASA-AERONET Multi-SpectralSun-SkyRadiometer	AERONETControlBox Model:CE-556	Manualandauto settings,operation, trouble-shootingand productscenariosofthe photometer.	
4.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401 (Terrace)	Solar Radiometry Laboratory (SRL)	NASA-AERONET Multi-SpectralSun-SkyRadiometer	Weather-Proof Housing fortheControlBox and other Accessories.	Epoxy-makerugged box foraccommodate mainly theControl Box for long life and durability; Design:Suitable to accommodateall partsof photometer in different compartments.	

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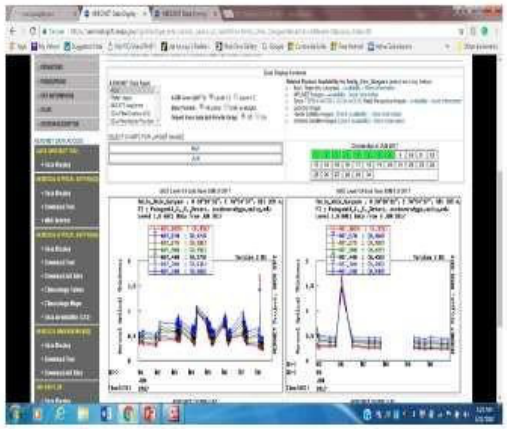
5.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental Scienceand Health(ACESH) Block-A Floor-4th Room-401	Solar Radiometry Laboratory (SRL)	NASA-AERONET Multi-SpectralSun-SkyRadiometer	AeronetData PortalModel:CE-556 NASAAERONETSoftwarefor dataacquisition,ASCIIand K7Filepreparation.	Real-timedisplayof directSunproductsand indirectinversion products; Associatedsatellite and long-range transportmodel outputs; DataPortal-Global Site: Amity_Univ_Gurgaon	
6.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401 (Terrace)	Solar Radiometry Laboratory (SRL)	MicrotopsII Sun-photometer	Make:SolarLightCo., USAModel:20749 Parameters/DataProducts SolarZenithAngle;Air Mass; ColumnarAerosolOpticalDepth (AOD);ColumnarAngstrom Exponent;Columnar TurbidityCoefficient; ColumnarWaterVapor.	FilterCentre Wavelengths:0.38, 0.44, 0.5,0.675,0.87,0.94, 1.02μm; FWHM:0.005–0.01μm; Precipitablewater contentmonitor:0.94 and1.02μm;FWHM: 0.01μm;Fieldofview:< 25^{o};Dynamicrange: $3x10^{4}$;Datastorage800 records.	

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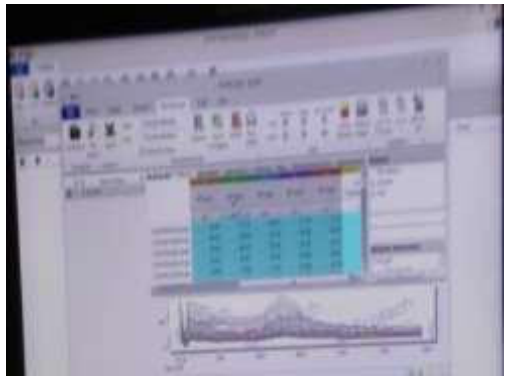
7.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401	Solar Radiometry Laboratory (SRL)	PolarMulti-Spectral Integrating Nephelometer	Make:Ecotech Model:Aurora4000 Parameters/DataProducts IntegratedTotal(Backward plusForward)Scattering Coefficient(indicatorofAir Quality);Spectralvariationof scatteringcoefficientand particlesizedistribution; Horizontalvisibilityandlevelof pollution;Particlerefractive indexandcompo-sition; AsymmetryFactor;Particle shapeandroughness; Calibrationandvalidationof radiationtransferthrough atmosphere	Measurement:<0.25to 2000Mm^{-1};Totallight scatteringangle:90^{o}–170^{o};Selectableangles: upto17anglesbetween 10^{o}–90^{o}(along witha18thangle0^{o} whichis standard); Wavelengths:450nm, 525nm,635nmsimulta-neously;Lower detectablelimit:<0.3 Mm^{-1}over60seconds integration;Sample flowrate:5l/minute approx.	
8.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401	Solar Radiometry Laboratory (SRL)	PolarMulti-Spectral Integrating Nephelometer	Make:Ecotech Model:Aurora4000 PolarNephelometerDataPortal Parameters/DataProducts ScatteringAngle;Time variationofTotalScattering Coefficient,Back-Scattering Coefficient,Forward- Scattering;air quality; asymmetryparameter;linear visibility.	Ecotech-makesoftware forhigh-resolutiondata acquisitioninnormal andepisodicconditions. Visualizationof atmosphericscattering coefficientsunder differentenvironmental conditions.	

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9.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401	Solar Radiometry Laboratory (SRL)	PortableParticles- into-LiquidSampler (PILS)	Make:HCT Model:4640 Parameters/DataProducts Quantificationofkey inorganic andorganicionsinsubmicron aerosol(PM);Detectionof aerosol(primary,PMand secondary,GPC)sourcesand sinks;Chemicalspeciationof pollutants;AcidrainandHealth effects.	Water-solublesub-micron(PM1andPM2.5) aerosolswillbe collectedusinga particle-into-liquid sampler(PILS)for offlineanalysisbyion chromatography(IC).	
10.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	ContinuousParticle Measurement(CPM)Analyzer ESAModel:MP101Mand (CPMModulefor PM_{10}, $PM_{2.5}$,PM_1& InletofPM10) Parameters/DataProducts ParticulateMatter(PM1, $PM_{2.5}$andPM_{10}Mass Concentration)	Principle: Measurementof scatteredlight; ConcentrationUnits: Micro-gramspercubic meter; Range:0-1500µg/m^3; Timeresolution:1min; Detectionlimit:< 2µg/m^3 (24haverage); Precision:±2%; Opticalsource:Visible redlaserdiode(635 nm)12milli-watts; Detector:Photodiode withbuilt-inamplifier.	

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11.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	Chemiluminescent NitrogenOxide Analyzer ESAModel:AC32M Parameters/DataProducts NO,NO_2,NOx massconcentration.	Measurementrange: Programmable(max. 50µg/m^3);Unit:µg/m^3; MinimumDetectable Limit:0.4ppb; Linearity:±1%; Sampleflowrate: 0.66liter/minute; $NO_2$to NO Convertor: Molybdenumat 340°C; Operating Temperature: +5°Cto +40°C.	
12.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	InfraredCorrelationCarbon MonoxideandDioxide Analyzer ESAModel:CO12M Parameters/Data ProductsCO,CO_2mass concentration	Measurementrange: Programmable(200 mg/m^3maximum); Unit:mg/m^3; Detectablelimit:0.05 mg/m^3; Responsetime:40sec; Sampleflowrate:1.3 liters/minute; WorkingTemperature: +5°Cto+ 40°C; Display:LCD240x128 textandgraphic modes.	

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13.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	GasChromatographyVolatile OrganicCompounds(VOC) Analyzer ESAModel:VOC72M Parameters/DataProducts VolatileOrganicCompounds suchas Benzene;Toluene; Ethylbenzene;M+PXylene; OxyleneandButadiene massconcentration.	Measuringrange: max.1000 µg/m^3 (Programmable); Units:ppbor µg/m^3; Cycle duration:10, 12, 15,20,30minutes (Programmable); Lowerdetectable limit: <0.05µg/m^3; Cooling:Liquid heat exchange and thermo- electric cooler.	
14.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	NH3Analyzer ESAModel:AC32E-CNH3 Parameters/DataProducts NH3mass concentration;Vehicular emissions;Biomass burning;Precipitation chemistry	MeasurementRange:0-1 ppm,Userselectableand programmable; DetectionLimit:<0.2 ppb;ZeroDrift:<1 ppb/24h;Response Time:Min.40sec; Linearity:1%; Repeatability:1%; SampleFlowRate:0.66 literperminute; OperatingTemp.:0-40°C.	

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15.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	UVAbsorptionOzone AnalyzerESAModel:O342M Principle:Ozoneconcentration is determinedbythedifference betweentheUVabsorptionof thegassampleandthesample withoutozoneafterfiltration performedbyacatalytic converter.	Ranges:0-0.1/0.2/ 0.5/ 1/2/5/10ppmor customrangeselectable DetectableLimit:0.4 ppbResponsetime:20 secLinearity:±1%of fullscale Sampleflowrate:1 liter/min Datastorage:24 months	
16.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (AmityAirQuality MonitoringStation (AAQMS)	ComputerizedMulti-GasCalibrator ESAModelMGC$_{101}$ Parameters/DataProducts Calibrationof PM,VOC,NOx, O,SO,COandCO_2 Analyzers	Flowaccuracy:±1.0%; Flow:±1.0%setpoint, Dilutionmode:from1:12 to1:900,Ozone production:0.02ppbto 0.5ppmat10Pre-heatingtime:30 minutes,Responsetime: 2 minZeroair inlet:1 external0/4”Swagelok), Operatingpressure(zero air&spangas):-1.72 bars	
17.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity CentreforEnviro-nmentalScience andHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (AmityAirQuality MonitoringStation (AAQMS)	UVFluorescentsulfurdioxide analyzer ESAModelAF22e Parameters/Data Products SO_2MassConcentrationin Microgrampercubic meter,Continuousambient airqualitymonitoring analyzer, Sourcesegregationof SO_2 gasconcentration.	MeasurementRange:0-20ppm;Responsetime: automaticand/or programmable; Linearity:1%; Sample flow-rate:20 l/h;Data storage:1year(1minute data);Operating temperature:0-35°C.	

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18.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)-(Amity AirQuality MonitoringStation (AAQMS)	WindSpeed Make:LSI Parameters/DataProducts Dispersion and dilution ofpollutants. Long-rangetransport leading to enhancementof local pollution; Gas-to-particle conversion,and new particleformation.	Principle: OptocouplerReed Relay;Threshold:0.3 m/sec; Accuracy:1%; Resolution: 0.06%; Housing: Anodized Aluminum; OperativeTemperature: -35to+70°C.	
19.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity AirQuality Monitoring Station (AAQMS)	WindDirectionProbe Make:LSI Parameters/DataProducts Directionofwindflow;Angular Movement/ dispersalof pollutants;Angularmappingof pollution	Type:CupAnemometer Range:0 to360°; Accuracy:±2°@wind speed>1 m/s; Resolution:0.1°.	

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20.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	Temperature ProbeMake:LSI Parameters/DataProducts AmbientTemperature MixingHeightEstimation	Sensitiveelement:Pt100 1/3DinB; Measurementrange:-50 -+70^{o}C; Accuracy:0.1^{o}C; Resolution:0.01^{o}C; Responsetime:30s Operativetemperature: -40-+80^{o}C.	
21.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	HumidityProbe Make:LSI Parameters/DataProducts PMSize Growth Processes, Gas-to-ParticleConversion; Size Distribution; TraceGasRadiativeForcing.	Principle:Capacitive; MeasurementRange:0-100%; Accuracy:1.5%; Responsetime:10 min;Operative temperature:40-80^{o}C.	

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22.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	Rainfall(Precipitation) Make:LSI Parameters/DataProducts RainfallIntensityvariations. Timevariationofrainfall. Rainfallunderwildweather conditions.	Principle:Tippingbucket withsiphoneWMO compliance; Material:Aluminum; Basepolyester; TippingBucketPlastic; Resolution:0.2mm; Operative Temperature:0-60°C.	
23.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	AmbientPressure Make:LSI Parameters/DataProducts Temporalvariationof pressure.Pressurevariations duringepisodicsituations	Principle:Piezometric MeasurementRange: 800 –1100hPa Maximum PressureLimit: 2000hPaOutput:0-1VAccuracy: 0.5hPa	

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24.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate,outside AAQMS.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	GasCylinders'Cage Make:Chemtron Science Parameters/DataProducts MeasurementandCalibration ofvariousPMandtracegas concentrations.	SO_2Cylinder–10 ltr(15 ppmBal.N_2) NOCylinder–10 ltr(15 ppmBal.N_2) CO_2Cylinder–10 ltr (750ppmBal.N_2) COCylinder–10 ltr (800ppmBal.N_2) NH3Cylinder–10 ltr(35 ppmBal.N_2) BTXCylinder–10 ltr (5.5ppmBal.N_2) N_2Cylinder–47lt	
25.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (AmityAirQuality MonitoringStation (AAQMS)	AirQualityMonitoringStation (AQMS)withDisplayBoard onthetop. Parameters/DataProducts PM_1,$PM_{2.5}$andPM_{10}Mass concentration;NOx,NO, NO2,NH3,O3,SO2,CO, CO2, Benzene,Toulene, Ethylbenzene,M+PXylene, O-Xylene,Butadienemass concentration,WindSpeed, WindDirection,Temperature, RelativeHumidity,Pressure, Rainfall.	GasSamplingSystem, LocalDataAcquisition Systemincluding softwareDell-makePC, MonitorHPmake DeskjetPrinter,and GSMModemCarrier makeSplitAir Conditions2 ton-2Nos.,GXTMT+LB Make3 KVAUPS.	

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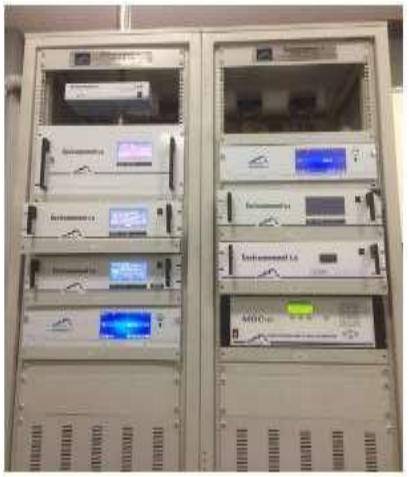
26.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station(AAQ	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	AmityAQMS Parameters/DataProducts PMmassconcentrations, Gasconcentrations, Meteorological Parameters	Rack-mountedVarious ParticulateMatterand GaseousReal-Time AnalyzersInsidethe AmityAirQuality MonitoringStation (AAQMS)	
27.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)MS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	AmityAQMS Parameters/Data ProductsReal-time, surface-level meteorologicalwindspeed, wind direction,humidity,temperature, pressureandrainfall.	Meteorologicalsensors forrecordingwind speed,winddirection, humidity,pressureand rainfall,installedon the roof-topoftheAAQMS Housing	

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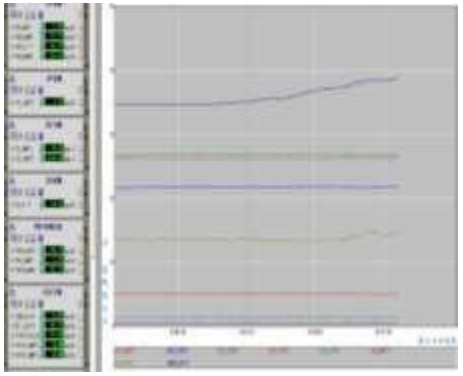
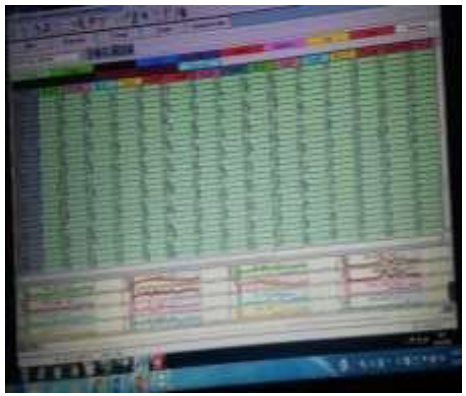
28.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	AmityAirQualityMonitorData Template Model-ESA Parameters/DataProducts AAQMSdataportal,showing eachparametervalueatevery 15minutesintervalandits diurnalvariation	AAQMSDataPortal Left:Synchronous displayofvariousPM, Gasconcentrations andmeteorological parameters Right:High-resolution TemporalVariationof PM,GaseousSpecies andMeteorological Parameters	
29.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) AdjacenttoGoal Circle,Oppositeto UniversityEntrance Gate.	AmityAir Quality Monitoring Station (AAQMS)	Modelingof Air PollutionAnd Networking (MAPAN)– (Amity Air Quality Monitoring Station (AAQMS)	AmityAirQualityMonitorData Template Model-ESA Parameters/DataProducts AAQMSdataportal,showing eachparametervalueatevery 15minutesintervalandits diurnal variation.	AAQMSDataTemplate Upper:Instantaneous valuesofPM,Gaseous andMeteorological Fields. Lower:Corresponding TimeVariationat Every Minute.	

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30.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-401 (Terrace)	Solar Radiometry Laboratory (SRL) Terrace	Weatherand Environmental Monitor(Pocket Weather Tracker)	Make:Kestrel Model:4500NV Parameters/DataProducts Continuousmeasurementof Altitude;Declination;Dewpoint; HeatIndex;MagneticNorth; WindSpeed;Temperature; WetBulbTemperature;Wind Chill;RelativeHumidity; Pressureandskin temperature.	Data Storage Rate: 1HourDisplayContrast: 10, AutomaticShutdown:15 min., MemoryCapability: 700days(@12h).	
31.	AmityCentrefor Ocean-Atmospheric Scienceand Technology (ACOAST)&Amity Centrefor Environmental ScienceandHealth (ACESH) Block-A Floor-4th Room-407	Climate Research Laboratory (CRL)	Asuitof instruments composedof Nephelometer, Seven-wavelength Aethalometer; AerodynamicParticle Sizer;HighVolume Sampler;Portable Weatherand Environ-mental Meter;Multi-spectral Sun-photometer; Multi-wavelength OzoneandWater VaporMonitorand AerosolParticle Monitor(GRIMM)	Parameters/DataProducts TotalScatteringCoefficient (Nephelometer);Particulate Mattermassconcentration; Aerosolnumber-size distribution(AerosolSizer); BlackCarbonmass concentration(Aethalometer); Columnaraerosolparameters (MicrotopsII)Sun-photometer andOzonemonitor);surface-levelmeteorological parameters;sizesegregation ofaerosolparticles(GRIMM)	Establishedin2015as partof thecollaboration betweenAUH, Manesar-Gurugram andARIES,Nainital,for airpollutionandclimate studies. Someof the instruments arecontinuedtooperate atAUHandsomehave beensentbackto ARIESforre-calibration in2017.	

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