



IoE-Directorate
प्रतिष्ठित संस्थान-निदेशालय
University of Hyderabad
हैदराबाद विश्वविद्यालय
Gachibowli, Hyderabad – 500046
गचीबोवली, हैदराबाद - ५०००४६



List of Repair & Maintenance to various Schools / Centres

School of Mathematics and Statistics

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	Aluminium Frame with sliding shutters for the windows	For Committee Room (2 nos) Seminar Hall (4 nos) SAP lab (2 nos) Statistics lab (2 nos) and Deans office (2 nos)
2.	ACER E1-571 Laptop (Maintenance of Computer lab)	Keyboard panel replacement
3.	Lenovo i5 E-530 Laptop (Maintenance)	Motherboard and Battery replacement
4.	SMF 100 ah batteries (40 nos)	For two UPS units (one time installation)

School of Physics

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	1. VLSI Hardware and Software Tools – 30 Nos. and 2. Desktop computers -30 Nos. for VLSI and other facilities	Repair and upgradation
2.	21 node HPC Cluster	Out of 21 nodes seven nodes to be repaired and reconfigured.
3.	RF Sputtering System, of Microfabrication facility in clean room, CFN.	An RF power supply of it needs replacement. Not under AMC
4.	XRD Spares	Target, and source tune spares
5.	UV-Vis-NIR spectrophotometer	Diffused reflectance measurement + 1 lakh for AMC
6.	Picosecond Laser	
7.	Microwave Vector Network Analyzer	USD 20,000. It is for buying 2 accessories. Not under AMC

School of Chemistry

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	Powder X-ray diffractometer (Model Bruker SMART D8)	PXRD intensity (CPS) is low and X-ray tube needs to be replaced
2.	Compute of confocal Raman microscope and Software (bought ~ 12 years ago)	The software upgradation needs higher end computer and old computer doesn't support the software upgradation
3.	Glove Box O ₂ /H ₂ O Sensors damaged need to be replaced with new along with service	The glovebox is essential to carryout/transfer the ambient controlled reagents. The sensors O ₂ /H ₂ O needs to be less than 1 ppm

4.	Reference cell for BET and service of the instrument	The reference cell is broken for a long time, and the student users are facing problem in running the instrument. Recently, the instrument also stopped working and so needs urgent servicing
5.	Lyophilizer (Labconco) leakage in the 4-port manifold	Manifold leakage needs to be fixed to carry out the measurements on this tool
6.	Electronic board in DSC (Perkin Elmer)	An electronic board in the DSC has burned out, and needs replacement. Without the replacement the instrument would not work.
7.	UV-VIS-NIR Spectrophotometer	The lamp and the detector need to be replaced besides servicing the instrument
8.	Fluoromax-Spectrophotometer	The solid-state samples (thin films) characterization using the integrating sphere is to be upgraded.
9.	HRMS Machine	10 years old machine, not working. Needs maintenance

School of Engineering Science and Technology

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	XRD	PCB communication board problem. Equipment cannot be switched on
2.	Creep testing machines	Furnaces have to be replaced
3.	Centrifuge	Rotor and motor should be replaced
4.	Furnaces (5 nos.)	Replace of parts and repair of the windings and gas inlet, electrical requirements
5.	FT IR	German Crystal replacement for carrying FT IR measurement
6.	Thermal conductivity measurements system (Hot-DISK TPS2200)	Vacuum furnace attachment as an accessory to the current system for high temperature in-situ measurement of the samples
7.	High temperature sintering furnace	Brick lining and heater ceramic connector damaged needs immediate repairing
8.	UV-VIS spectrometer	Repair and replacement of part
9.	BET surface area analyser	Cylindrical chamber has issues
10.	MWCVD machine + associated UPS	Repair + Maintenance

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School of Computer and Information Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	UPS-Batteries (48 Nos)	Replacement of old batteries in the SCIS labs. (Priority#1)
2.	Storage Devices/Server Upgrades-NIS, NFS and Streaming (10 Nos)	For the support of research activities in the SCIS-Labs. (Priority#3)

School of Medical Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
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1.	Bio Rad Gel Doc	Repari - Mother board replacement(as per quote)
2.	RT PCR (2 nos)	3KVA UPS needed(as per quote)
3.	Spectrophotometer	2 KVA UPS needed(as per quote)
4.	Bio Rad Gel Doc	1 KVA UPS needed(as per quote) and upgradation
5.	CO2 Incubator	Repair
6.	Water Bath	Repair
7.	Milli Q Distilled Water plant	Repair
8.	Synaptophore	Upgradation : Complete haagesteak slide set
9.	Vision drum (2 nos)	Repair
10.	Trial Frame (adult and peadratic)	Upgradation: Justification: As part of the eye clinic we need better trails frames with more accurate IPD settings also students are invloved in vision screening at school hence require peadratic frames also
11.	Wall mounted retinoscope	Upgradation: Justification: currently we have battery operated retinoscope and we would like to upgrade to wall mounted for two reasons one the reflexseen is much better and also to reduce the cost of batteries every semester
12.	JCC (+-0.25, +-0.50,+1)	Upgradation: Justification: currently we have three JCC which have many scratches and would like to upgrade sothat students teaching goes smoothly
13.	Optics Lab	Upgradation: Justification: we need upgradation in optical benches, detectors, and optical components for the smooth running of lab
14.	Biophysical monitoring of gait trainer balance (2 nos)	Formatting, software update
15.	Power back up for Equipment in the lab	Upgradation

School of Management Studies

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	Computer lab equipment maintenance	purchase of update software, cables

School of Humanities

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	AC unit in Urdu computer lab	
2.	Ricoh Aficio MP C2800	Repair and Servicing
3.	Upgrading the RAM for 5 computers to 8 GB (5 computers)	
4.	Upgrading the RAM for 11 computers to 16 GB (11 computers)	

School of Economics

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
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1.	Sound Systems for 3 Class Rooms (CR 2, F4, F5 and Seminar Room)	Justification: (common facilities for students and faculty) Replacements of old machines and accessories are required
2.	Electrical wiring to faculty rooms with UPS connections	Replacements and repairs
3.	Carpets for Seminar Room	Replacements (common facilities)
4.	LCD repairs in CR2, F4, F5 and Seminar Room (4 Nos.)	Replacements and upgrade (common facilities), Wifi enabled projector for classrooms
5.	Faculty Chairs for Class Rooms (3 Nos.)	Replacements
6.	All in One Computers for Student Lab (15 Nos.), renewal of econometric/statistical softwares and Printers (05 Nos.) in lab	Justification: (Common facilities for PhD scholars and master students). Replacements/repairs/upgrades of computers in the lab are required.
7.	Office Xerox-cum-printer	Repairs (common facility)

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School of Life Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks	
Repair/Upgradation of Equipment in Central Facilities			
<u>Metabolomics Facility</u>			
1.	GC MS servicing	1	
2.	LC MS servicing	1	
3.	N2 generator for LCMS	1	
4.	Air compressor servicing/repairs	1	
5.	Computer repairs	2	
6.	Fridge repairs	1	
<u>Centrifugation Facility</u>			
1.	Stabilizer repair for floor model Ultra	1	
2.	Stabilizer repair for floor model High Speed	1	
3.	Cell frost repairs	1	
Department of Plant Sciences			
1.	Ultra Centrifuge: Repair of Power Board and Stabilizer	1	
2.	PCR Machines: Repairs	4	
3.	Table Top Centrifuges: Repairs	5	
4.	HPLC: Pump Motor Repair and Hardware Repair	1	
5.	Sonicators: Repairs	2	
6.	Cold Rooms: Repair with Replacement of Outdoor Units	1	
7.	FTIR: Repairs	1	
8.	-80°C Freezer: Repair	1	
9.	Incubator Shakers: Repairs	4	
10.	Spectrophotometers: Repairs	5	
11.	Multi-Plate Reader: Repair	1	
12.	Bioanalyzer (Cell Press): Repairs	1	
13.	Plant Growth Chambers: Repairs	1	
14.	DDH Variable Mode Imager: Repair	1	
15.	Electroporator (BTG): Repair	1	
16.	Confocal: Replacement of Helium Lazer	1	

17.	Laminar Flow Chambers: Repair and Servicing	4	
18.	Microscopes (Light, Dissecting and Sterozoom): Repairs and Servicing	4	
19.	Microbalances: Servicing	3	
20.	Autoclaves: Repairs	2	
21.	Fluorimetry: Repair	1	
22.	CO ₂ Chamber in the greenhouse: Repair	1	

Department of Biochemistry

1.	HPLC	Replacement of column and injection syringe	
2.	Lyophilizer	Oil pump service and replacement	
3.	Fluorescence microscope	Lamp replacement and servicing	
4.	UV Spectrometer and other small equipment miscellaneous repair	Includes HEPA filters, balance servicing, electrodes, etc.	
5.	RT-PCR Machine	Calibration for precision measurements	
6.	Projector with WiFi	WiFi enabled projector for classroom	

Department of Biotechnology & Bioinformatics

1.	Deep Freezer (-80C) 2 no s & Stabilizers 2 no's	Compressor Replacement refrigeration gas, filter dyer,	
2.	High Speed Refrigerated Centrifuge Stabilizers 1 no's	Shaft	
3.	Kubota Refrigerated centrifuge Stabilizers 1 no's	Shaft, motor and digital display and small rotor for ~50 ml falcon tubes	
4.	Gradient thermal cycler	Thermo block	
5.	FPLC	Three columns a) 2.2 X 20 cm b) 1.3 X 15 cm c) 1.5 X 100 cm	
6.	Sonicator	Replacement of clamp, probe upgradation	
7.	Elisa plate reader & Elisa plate washer 4 no's	Printer & plate movement problem	
8.	Fermenter	Electrode, Tubing and few spares are required	
9.	Refrigerated centrifuge ~ 10,000 rpm	Adapters and falcon tubes of 15ml and 50ml capacity	
10.	Spectrophotometers 5 no's	D2-lamp replacement Reading fluctuation	
11.	Thermostat Multitemp	Temperature not maintained	
12.	Co2 Incubator	Temperature sensor problem	
13.	Incubator shaker 2 no's	Temperature problem	

Department of Animal Biology

1.	Deep Freezer (-80C) 3 No s & Stabilizers 3 No's	Compressor Replacement	
2.	CO ₂ incubators (4 Nos)	Repair and calibration of temperature, humidity and Co ₂ Sensor	
3.	Inverted microscope (4 Nos)	Filters, Bulb, and eye piece and software updates and upgradation	
4.	HPLC	Pump repair and software updates	
5.	Lyophilizer/freeze dryer	Compressor and Pump Repair	
6.	Sonicator	Probe and Frequency calibration	
7.	Gel doc	Lamp and software update	
8.	Refrigerated centrifuge	Compressor	
9.	PCR	Hot plate and chip replacement	

10.	Flow cytometry	Repair, replacement of O rings, tubing, laser, filters and nozzles calibration	
11.	UV transilluminator	UV bulbs	
12.	Plate Reader	Filter, bulb and plate movement repairs	
13.	Ultracentrifuge	Adapters, tubes holders, shaft repair	
14.	Gradient & Mini PCR	M.Sc. Lab	
15.	Protein separation unit and power packs	M.Sc. Lab	

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School of Life Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks	
Biosafety Level 3 Facility- SLS			
1.	MiliQ Plant repair	Pump, Compressor	
2.	Autoclaves Repair	PLC repair, chambers	
3.	Fire alarm/ BMS systems	Repair and up gradation of BMS	
4.	CO2 incubator, Centrifuge and orbital shaker	Up gradation	

School of Life Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
Radioactive Facility		
1.	Liquid Scientillation Counter	Repair

School of Life Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	Liquid Scientillation Counter	Repair

School of Social Sciences

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S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	APC 5 KVA UPS (02 nos)	
2.	Additional 8 GB RAM (1 No)	For Dell Optiplex 7060 S.No. JF2YDV2 Desktop used by the SO of the School
3.	Additional 8 GB RAM (1 No)	For Dell Optiplex 7060 S.No. JF2wdv2 Desktop used by the PA to the Dean
4.	Additional 8 GB RAM (1 No)	For Dell Optiplex 7060 S.No. JF2XDV2 Desktop used by the DEO
5.	4 GB RAM DDR3 (2 Nos) 500 GB Hard Disk (1 No)	For HP Desktop S.No. INA302V6WH of the Conference room
6.	2 GB RAM DDR3 (2 Nos) 500 GB Hard Disk (1 No)	For HP Desktop S.No. INA7309CK of the New Seminar Hall
7.	Upgradation Electronic Podium of Seminar Hall	
8.	Audio & Mike system of the Seminar Hall repair	

9.	Computers of Seminar Hall repair & upgrade	
10.	UPS's 1100/600 VA battery replacement & repair	
11.	Printers repair & service	
12.	Seminar Hall Chairs, Class rooms Cushion Chairs, Shampooing (Cleaning) and Senate Hall	
13.	Four Air Conditioners in MA 1 st year class room (Dept. of Sociology)	Accessories need to be replaced and Repaired
14.	10 KVA UPS Systems	Replacement of batteries

Centre for Earth, Ocean and Atmospheric Sciences (CEOAS)

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	Fabrication of electrical plug points for Petrology, Economic geology/ Geo-chemistry lab micro-scopes & instrument for teaching and research	----

Centre for Nanotechnology

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	SNOM-Raman (cost when purchased :Rs. 1.2 Cr) Year of Installation 2010	Replacement of CCD camera (Urgent : There are many users equipment has been down for one year)
2.	Electro Beam writer (cost when purchased : Rs. 3 Cr) Year of Installation 2011	UPS & Batteries (Urgent : There are many users and equipment has been down for one year)
3.	RF Sputtering System in Clean Room	Replacement of component of an RF Sputtering system in clean room to restore it to its normal operation

Centre for Neural and Cognitive Sciences

S.No.	Name of the Equipment	Repair / Upgrade / Remarks
1.	MilliQ Water Purifier	Repair
2.	80° degree freezer	Repair