

## Charges for the users of the equipment's maintained at USIC♦

S No	Name of the Equipment	Status	Charges in Rs.			
			Internal	External (Govt. Colleges and Universities) Including 18% GST	External (Private Institutions) Including 18% GST	External (Industries etc.) Including 18% GST
1	BET Surface Area Analyser	Working	1000 per sample	2596 per sample	3245 per sample	3894 per sample
2	CHNSO elemental analysis <sup>#</sup>	Working	225 per sample	1298 per sample	1623 per sample	2596 per sample
3	Circular Dichroism Spectroscopy	Working	80 per hr	325 per hr	390 per hr	649 per hr
4	Confocal Microscopy	Working	350 per hr	1298 per hr	1623 per hr	2596 per hr
5	Dynamic Mechanical Analyser (DMA)	Working	800 per hr	1416 per hr	1770 per hr	2950 per hr
6	Electrochemical Workstation	Working	100 per hour	354 per hour	443 per hour	590 per hour
7	Electron Spin Resonance	Working	500 per hour/ 150 per sample	974 per hour/ 390 per sample	1168 per hour/ 490 per sample	1298 per hour/ 909 per sample
8	FESEM with EDAX (with coating)	Working	650 per hr	2596 per hr	3245 per hr.	5192 per hr
9	Flow Cytometer Cell Sorter	Working	50 for Analysis 150 for Cell sorter	59 for Analysis 177 for Cell sorter	118 for Analysis 260 for Cell sorter	354 for Analysis 649 for Cell sorter
10	FTIR spectroscopy	Working	50 per sample/200per hr	779 per hr.	974 per hr.	11558 per hr.
11	High resolution mass spectrometer (HRMS)	Working	110 per sample 500/sample for LCMS	1298 per sample 1770/sample for LCMS	1623 per sample 2242/sample for LCMS	2596 per sample 2832/sample for LCMS
12	High Resolution Transmission Electron Microscope	Working	500 per hour for Imaging 400 per hour for SAD/EDS	1770 per hour for Imaging 944 per hour for SAD/EDS	2360 per hour for Imaging and 1416 per hour for SAD/EDS	2950 per hour for Imaging, 3124 per hour for SAD/EDS
13	Impedance Spectroscopy	Working	150 per hr	649 per hr	814 per hr	1947 per hr
14	Inductively Coupled Plasma Mass Spectrometer (ICPMS)	Working	600/sample (Liquid) 700/ sample (Solid) Upto 3 elements 50 each per element	1298/sample (Liquid) 1947/ sample (Solid) Upto 3 elements 59 each per element	1623/sample (Liquid) 2336/ sample (Solid) Upto 3 elements 59 each per element	2596/sample (Liquid) 3245/ sample (Solid) Upto 3 elements 59 each per element
15	Laser Based Photoluminescence Spectroscopy	Working	60 per sample	390 per sample	415 per sample	519 per sample

16	LN <sub>2</sub> (Supply)	Purchased from outside	20 per liter	Not for external users		
17	Millipore	Working	Deionized: 10/lit Ultra-pure: 25/lit	Not for external users		
18	Modulated Differential Scanning Calorimetry (MDSC)	Working	350 per hr	1947 per hr	2336 per hr	3894 per hr
19	NMR (Liquid) (Proton, Carbon* & multi nuclei*)	Working	20/sample for proton 30/sample for carbon	325/sample for proton 649/sample for carbon	390/sample for proton 779/sample for carbon	519/sample for proton 909/sample for carbon
20	NMR MAS (Solid)	Not Working	350 per hr	1947 per hr	2466 per hr	3245 per hr
21	Particle Size Analyzer	Working	250 per Sample	1298 per Sample	1623 per sample	2596 per Sample
22	Powder XRD*	Working	30 per sample (@RT) or 100 per hr 400 per hr (LT)	649 per sample (@RT) 1298 per hr (LT)	814 per sample (@RT) 1623 per hr (LT)	1298 per sample(@RT) 2596 per hr (LT)
23	Raman Spectroscopy with temperature variation (Charges for RT)	Working	100 per sample/ 450 per hr. for RT	1558 per hr for RT	1947 per hr for RT	3245 per hr for RT
24	Scanning electron Microscope (SEM) (with coating)	Working	325 per hr	1770 per hr	2124 per hr	2950 per hr
25	Single Crystal X-Ray Diffractometer	Working	1200 sample	3894 sample	4868 sample	
26	TGA-DTA	Working	80 per hr	390 per hr	490 per hr	1298 per hr
27	Ultracentrifuge	Working	65 per hr	Not for external users		
28	Up Conversion Spectroscopy	Working	150 per hr	1298 per hr	1623 per hr	2596 per hr
29	UV Vis Spectrophotometer Liquid	Working	50 per sample	325 per sample	390 per sample	454 per sample
30	UV Vis Spectrophotometer Solid	Working	60 per sample	390 per sample	490 per sample	519 per sample
31	Vibrating Sample Magnetometer	Working (RT)	350 per hr	1298 per hr	1623 per hr	2596 per hr
32	X-Ray Photoelectron Spectrometer (XPS)	Working	300/ for 5 elements 50 extra for each element 600/ depth profile 1000/ hr for UPS,Reels,ISS,Heating/cooling XPS	1770/ for 5 elements 100 extra for each element 2360/ depth profile 2360/ hr for UPS,Reels,ISS,Heating/cooling XPS	2360/ for 5 elements 150 extra for each element 2950/ depth profile 2950/ hr for UPS,Reels,ISS,Heating/cooling XPS	3540/ for 5 elements 150 extra for each element 4130/ depth profile 4130/ hr for UPS,Reels,ISS,Heating/cooling XPS
33	Simultaneous Thermal Analysis (STA)	Working	300/hr for RT to 1500C 500/hr for -120 to 675 C	590/hr for RT to 1500C 885/hr for -120 to 675 C	767/hr for RT to 1500C 1180/hr for -120 to 675 C	1180/hr for RT to 1500C 1770/hr for -120 to 675 C
34	Isothermal Titration Calorimeter (ITC)	Working	800 per hr	1770 per hr	2360 per hr	2950 per hr

35	Atomic Force Microscope (AFM)	Working	700 per hr (Normal) 800/per hr (Optional items)	1770 per hr (Normal) 2124/per hr (Optional items)	2360 per hr (Normal) 2950/per hr (Optional items)	3540 per hr (Normal) 4130/per hr (Optional items)
36	Physical Property Measurement System (PPMS)		200/ per hr 500/per hr for DR	944/per hr 1416/per hr for DR	1770/per hr 2360/per hr for DR	2360/per hr 2950/per hr for DR

\* These charges are subject to correction and USIC has every right to revise the charges depending upon the running cost of the instrument.

\* **Carbon & multi nuclei:** The charges mentioned above corresponds to one sample with 512 scans. More than 512 scans, charges would be counted with multiplication (e.g.: 512, 1024, 1536 and so on)

# includes consumables

\* Typical scan range  $2\theta = 10$  to  $80^\circ$  with 2° per minute

**For Electrochemical workstation:** For every 10 hours the payment will be reduced to 10% with maximum 50%.