

### AMRC instrument facility

Sl No	Name of the instruments	Model No	Make	Category	Status of the instrument
1	Powder X ray diffractometer	Smart Lab	Rigaku	Sophisticated instrument	Down
2	Nuclear Magnetic Resonance Spectrometer	PECX 500MHz	Jeol	Sophisticated instrument	Working
3	Transmission Electron Microscope	Technai G2s-Twin	FEI	Sophisticated instrument	Working
4	Confocal microscope	Eclipse Ti	Nikon	Sophisticated instrument	Working
5	Single crystal xray diffractometer	Supernova	Agilent Technology	Sophisticated instrument	Working
6	High resolution mass spectrometer	Impact HD	Bruker	Sophisticated instrument	Working
7	Field emission scanning electron microscopy	Nova Nano SEM 450	FEI	Sophisticated instrument	Working
8	Gas Chromatography	7890A	Agilent Technology	Sophisticated instrument	Working
9	Pump probe system	SPTF -36F -1K-ACE	Spectra Physics	Sophisticated instrument	Down
10	Physical property measurement sysytem	Quantum PPMS Dyna cool	Quantum design	Sophisticated instrument	Working
11	Magnetic property measurement sysytem	Quantum Design MPMS 3	Quantum design	Sophisticated instrument	Working
12	BET surface area measuring unit	Autosorb iQ3	Quanta chrome Instrument	Sophisticated instrument	Working
13	Chemisorption BET	Bel cat II	BEL Microtrac BEL crop	Sophisticated instrument	Working
14	Rheometer	MCR 102	Anton paar	Sophisticated instrument	Working
15	Fluorescence spectrophotometer	Fluorolog	Horiba	Sophisticated instrument	Down
16	Photo emmission spectroscopy	Prevac	Prevac	Sophisticated instrument	Working
17	Gel permiation chromatography	1260	Agilent Technology	Sophisticated instrument	Instrument is Working but sample preparation chamber is down
18	Fluorescence lifetime measuring system	Chronos BH	ISS	Sophisticated instrument	Working
19	Raman Spectrophotometer	Lab RAM HR evolution	Horiba	Sophisticated instrument	Working
20	High performance	1260	Agilent	Sophisticated	Working

	liquid chromatography		Technology	instrument	
21	Thermo gravimetric analysis with differential scanning calorimetry	STA449F1	Netzsch	Sophisticated instrument	Working
22	Atomic absorption analysis	A analyst 400	Perkin elmer	Sophisticated instrument	Working
23	Dynamic light scattering	Nano ZS	Malvern	General Characterisation Instrument	Working
24	fourier-transform infrared spectroscopy	Carry 600	Agilent Technology	General Characterisation Instrument	Working
25	UV-vis Spectrophotometer	UV 2450	Shimadzu	General Characterisation Instrument	Working
26	Fluorescence spectrophotometer	Carry eclipse	Agilent Technology	General Characterisation Instrument	Working
27	Fluorescence lifetime measuring system	Delta flex PM	Horiba	General Characterisation Instrument	Working
28	Optical cum polarising microscope	eclipse LV100 POL	Nikon	General Characterisation Instrument	Working
29	Glove box		Embron	General Characterisation Instrument	Working
30	Circular dichroism spectrometer	J 1500	Jasco	Sophisticated instrument	Working
31	cyclic Voltametry	Autolab	Metrohm	Sophisticated instrument	Working
32	cyclic Voltametry	Autolab	Metrohm	Sophisticated instrument	Working
33	Photo emission spectroscopy	Nexsa base	Thermofisher scientific	Sophisticated instrument	Working
34	Liquid N2 Plant	LINIT 25 plant	Linde India PVT Ltd	Sophisticated instrument	Working
35	Stereo optical microscope	Sx25 system	MS Vision engineering	Sophisticated instrument	Working
36	Chem BET	Belcat II	Microtrac	Sophisticated instrument	Working
37	Gel permiation chromatography	DAD 30000 plus	Analytical	Sophisticated instrument	Working
38	UV-VIS- NIR Spectrophotometer	Lambda 750	Perkin elmer	General Characterisation Instrument	Working
39	Thermo gravimetric	Pyris 1	Perkin elmer	Sophisticated	Down

	analysis			instrument	
41	Differential scanning calorimetry	204 F1 Phoenix	Netzsch	Sophisticated instrument	Down
42	Fluorescence spectrophotometer	Fluorolog	Horiba	General Characterisation Instrument	Down
43	Lyophilizer	Freezone	Labconco	General laboratory equipme	Working
44	Centriguge	MultifugeX3R	Thermofisher scientific	General laboratory equipme	Down
45	Deep freezer -80 degree celcius	8600	Thermofisher scientific	General laboratory equipme	Working
46	Deep freezer -20 degree celcius	ES Series	Thermofisher scientific	General laboratory equipme	Working