

Equipments in CIC P			
S/N	List of Equipment	Make	Model
1	XRD - X-ray diffraction (Thin Film)	Malvern Panalytic	Panalytical
2	XRD - X-ray diffraction (Powder)	Bruker	D8 Advance ECO
3	BET - Gas Sorption Analyzers	Anton Paar	Autoabsorb 6100
4	GC-MS - Gas Chromatography-Mass Spectrometry	PerkinElmer	GC-Clarus 590, MS-Clarus SQ
5	ICP-OES - Inductively Coupled Plasma Optical Emission Spectroscopy	Analytikjena	Plasma Quant 9000
6	Battery Testing and Experimentation Setup	ARBIN INSTRUMENTS IN	System RBT 32022
7	CHNS analyzer	Thermo Scientific	Flash 2000 Series
8	DC/RF Sputtering	Excel Instruments	N/A
9	FTIR - Fourier Transform Infrared Spectroscopy	PerkinElmer	Frontier FT-IR/FIR
10	HPLC - High Performance Liquid Chromatography	SHIMADZU	Prominence-ILC 2030C 3D plus
11	TGA - Thermal Gravimetric Analysis	Hitachi	NEXTA STA 200
12	DSC - Differential Scanning Calorimetry	Hitachi	DSC 7020
13	Raman Spectrophotometer	N/A	RIMS-U-DC
14	AFM - Atomic Force Microscope	NANOSURF	AG
15	Glove box	MBRAUM	EASY LAB PRO i
16	GC-TCD - Gas Chromatography-Thermal Conductivity Detector	N/A	N/A
17	GC-FID - Gas Chromatography with Flame Ionization Detector	N/A	N/A
18	TMA - Thermal Mechanical Analyzer	TA Instruments	TMA Q400
19	MOKE instrument	N/A	N/A
20	Particle Size Analyzer	Malvern	ZEN 1690 Type S
21	Gas sensing setup	N/A	N/A
22	Plasma Treatment Setup	N/A	N/A
23	Drop Shape Analyzer	KRUSS	DSA25
24	Photoluminescence (PerkinElmer LS 45)	PerkinElmer	LS 45
25	Photoluminescence (Fluro-Max Plus)	Fluro-Max Plus	Plus C P
26	Rheometer	Anton Paar	RheolabQC
27	Wet Synthesis Facilities for Battery and Supercapacitors Materials	N/A	N/A
28	Vacuum Furnace	N/A	N/A
29	Electrochemical Workstation	Autolab (CH Instruments)	M204
30	Electrochemical Workstation	(MetrOhm)	M204
31	Electrochemical Workstation (Potentiostat)	Biologic	N/A
32	Electrochemical Workstation	(Ustat)	i-400
33	Thermal Evaporation System	Excel Instruments	N/A
34	Spray Pyrolysis	Excel Instruments	N/A
35	PH/ISE meter	Thermo Scientific	Orion Dual Star
36	Optical microscope with digital camera	Magnus	MSZ-TR
37	Vacuum Oven	N/A	N/A
38	Screen printer	N/A	N/A
39	Viscometer	N/A	N/A
40	Density Meter	N/A	N/A
41	Bomb Colorimeter	N/A	N/A
42	Fire and Flash Point	N/A	N/A
43	Pour and Cloud Point	N/A	N/A
44	Orbital Shaking Incubator	N/A	N/A
45	Tubular Furnace	UDIAN	N/A
46	Muffle Furnace	Nabertherm	B180
47	Hot Air Oven	N/A	N/A
48	Bio-Disel Reactor	N/A	N/A
49	Pyrolysis Reactor		N/A
50	Chemical Evaporation System (CVD)	VB ceramic consultants	N/A
51	3D Printer	CIL30	X3045
52	Laser Cutter/Engraver	N/A	N/A
53	Planetary Ball Mill	N/A	N/A
54	Spin Coater	APEX Instruments	SpinNXG-P2
55	Ultra-Sonicator	N/A	N/A
56	Probe-Sonicator	Hielscher	UP200Ht
57	Ph Meter	Eutech	N/A
58	KBr press M 15	Techno Search Instrument	N/A
59	Borosil double distillation unit	Borosil	N/A
60	Medical refrigerator freezer (-20)	Blue Star	N/A
61	Millipore water purifier	Millipore	DIRECT Q 3UV
62	Orbital shaking incubator	Remi	CIS 24 Plus
63	Ozone gas generator	Aurozone	KTM20N-000 (SS304 Material)
64	Ultrasonic bath	Thermotech	N/A
65	Hotplate Stirrer Digital Control	Daihan	MSH-20D
66	Water bath	Thermotech	N/A
67	Weighing balance	Sartorius	QUINTIX 224
68	Weighing Balance	Sartorius	BSA 224S-CW
69	Weighing Balance	Sartorius	QUINTIX 125D-10IN
70	Weighing Balance	Mettler Toledo	ME 204