

# CSIR – INSTITUTE OF MINERALS & MATERIALS TECHNOLOGY

## LIST OF ANNUAL EQUIPMENTS PROCUREMENT PLAN FOR YEAR 21-22

SL NO.	List of specialised equipment required to be purchased	Type of project
1	HPC Cluster & Workstation	MLP-67 / MLP-70
2	Fluidized Bed Pyrolysis Pilot Plant	MLP-75
3	Vacuum Glove Box	HCP-2802
4	Microwave Distillation System	HCP-2802
5	3D Printer	MLP-65
6	Magnetic Pumps	MLP-65
7	Electrostrictive Strain Measurement System	HCP-0030
8	Workstation	MLP-65
9	Magnetic Heating and Measurement France	MLP-74
10	Table Top High Temperature Box Furnace	MLP-78
11	Nitrogen Generator (Pilot Scale) on Turnkey Basis	MLP-79
12	Continuous Pyrolysis Rotary-Augur System on turnkey basis	GAP-335
13	Spray Dryer Unit	MLP-74/P-50 (LRF)
14	Three Zone vertical Gradient Heating Furnace	OLP-114
15	Electro Spin Equipment	HCP-2802
16	Cryogenic Probe Station	HCP-30
17	X-Ray Residual Stress Analyser	P-50
18	UV Curing System portable	OLP-112
19	TEM Sample preparation unit	MLP-26
20	Electron Probe Micro Analyser	MLP-26
21	Spin Coater & Deposition system	HCP-30
22	Plasma Cleaner and Precision Angle Polisher	MLP-26
23	Atomic Force Microscope system	HCP-30
24	Glove Box	OLP-115
25	Xenon Arc Lamp	OLP-112
26	FTIR Spectrometer	OLP-112
27	Fume Hood	OLP-112, 105, MLP-2013
28	Gas Generation System	HCP-30
29	Flue Gas Analyser	MLP-79
30	3D Printer	MLP-65
31	particle size analyser	P-07
32	Xenon Arc Lamp	MLP-74
33	Polishing Machine	GAP-330
34	Chromatograph System	GAP-189
35	Nafion Membranes	GAP-301
36	Electron probe micro Analyser (EPMA)	P-50
37	Zeta Potential Apparatus with Particle Size Analyser	HCP-30
38	Microwave Synthesis System	GAP-324
39	Source Meter	OLP-106
40	Plasma Reactor	P-07/LRF
41	Fiber Network Extension	MLP-1013
42	Vibratory Cup Mill	HCP-2801
43	Miller Apparatus	OLP
44	Ererim Pot Tester	OLP
45	Slurry Loop	OLP

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## LIST OF EQUIPMENTS PROCUREMENT PLAN FOR NEXT 3-5 YEARS \*

SI No.	List of specialised equipment required to be purchased	Type of project
1	Separatory funnel shaker, Vacuum evaporator	GAP
2	GRIMMS spectrometer	GAP
3	QCM MOUDI	GAP
4	WIBS	GAP
5	Plasma reactor 60 Kw power source with all accessories, Swing mill grinder	GAP
6	1. Dry Gravity Shaking Table, 2. Vibrating Screen	GAP
7	High speed camera	GAP
8	Thermal evaporator	GAP
9	Fume hood	GAP
10	(Equipment, accessories & spares ) Bench / Pilot equipment: Pressure Reactors separator/ Magnetic hysteresis measurement device	GAP
11	Bench scale molten salt electrolysis furnaces (300 A) Pilot scale molten salt electrolysis furnaces	MLP
12	Bench scale reactors	SSP
13	Setting up of Pilot plant: High Pressure reactors	SSP
14	Lab & Bench Scale Pressure Reactor	GAP
15	Bench scale Salt roasting furnaces	GAP
16	Bench scale spray Drier	GAP
17	UV-VIS Spectrophotometer	GAP
18	1. Simultaneous Thermal Analyser DSC/TGA System, 2. Glove box Workstation	MLP
19	High Pressure/High Temperature Vessel	GAP
20	1. ATR-FTIR Spectrometer, 2. Glove box Workstation	MLP
21	High-duty horizontal tubular furnace	GAP
22	Nano spray drier	GAP
23	Spark Plasma Sintering set-up	MLP