

**Tentative List of Equipment to be procured under CSIR Projects for
the Financial Year 2023-24**

Proj. No. MLP 0093

S.No.	Name of the Equipment	Qty
1	Up-gradation of Electrochemical work station with 25 Channels	1

Proj No. MLP 0094

S.No.	Name of the Equipment	Qty
1	Pilot plant facility for bulk chemical of 5 kg/h capacity	1
2	Continuous Rotary Kiln reactor system of 25 kg/h capacity for gas - solid operation	1

Proj No. HCP 0048B

S.No.	Name of the Equipment	Qty
1	Micro-GC	1
2	CO2 Analyser	1
3	MFC	3
4	CO2 absorber	1
5	miscellaneous items	1
6	TGA-DSC-MS	1

Proj No. HCP 0048C

S.No.	Name of the Equipment	Qty
1	High Pressure Vapour Phase Reactor	1
2	Vapour Phase Reactor	1
3	GC	1

Proj No.HCP-0048A2

S.No.	Name of the Equipment	Qty
1	TGA-DTA	1

2	Gas Chromatograph	1
3	Computational System	1
4	MFCs	3

Proj No.HCP-0048A1

S.No.	Name of the Equipment	Qty
1	Volumetric Sorption Analyzer	1
2	Dynamic Adsorption Analyzer	1
3	Autoclaves/reactors for adsorbent and forming bodies	1

Proj No. HCP 0041

S.No.	Name of the Equipment	Qty
1	Multimode reader	1
2	Computer	1
3	Printer	1
4	Refrigerators	2
5	Magnetic stirrers	10
6	Rotary evaporator with pump	1
7	Analytical balance	2
8	Refrigerators	2
9	Hot air oven	2
10	Ozone generator	1
11	Vacuum pump with rotary	1
12	Immersion cooler with rigid probe	1
13	Ultra low freezer -80 C	1
14	Magnetic stirrer	1

Proj No. HCP 0050

S.No.	Name of the Equipment	Qty
1	High vacuum pumps	10

2	CRYO -78 °C	4
3	Polari meter	1
4	Low Temperature Reaction Bath	2
5	Refrigerators	10
6	Analytical Balance	4
7	FT-IR	1
8	Sonicator	3
9	Ultrasonic Bath	1
10	Chillers	13
11	Vortex mixer	1
12	High vacuum pump, vacuum oil	5
13	Rotary evaporator	12
14	Vacuum pump	12
15	Automated Flash Chromatography	1
16	Drum Dollies	3
17	Autoclave 10 Litre, 5 Litre	1
18	Automated flash cum preparative HPLC Chromatography system	1
19	stirrers	20
20	stirrers	35
21	Vacuum pump	1
22	Gas Cylinders	1
23	CO2 Cylinders	1

Proj No.MLP 0088

S.No.	Name of the Equipment	Qty
1	Injection Moulding Machine	1
2	Lab Model Blown Film Equipment	1
3	Stabilizer for Extruder	1
4	Grinding Machine	1
5	Lab Spray dryer	1

6	Impact Tester	1
7	Pilot Beater Machine	1
8	Pulp Refiner	1
9	UV-VIS Spectrophotometer	1

Proj No.HCP 0052

S.No.	Name of the Equipment	Qty
1	Pulp Refiner	1

Proj No.MLP 0089

S.No.	Name of the Equipment	Qty
1	High-Pressure High-Temperature Pressure Vessels	1
2	PLC Based control Unit & Transducers	1
3	Accessories for Reactor	1

Proj No.HCP 0007

S.No.	Name of the Equipment	Qty
1	Distillation set-up	1
2	Extraction column set-up	1
3	Metering pumps	2

MLP-0085

S.No.	Name of the Equipment	Qty
1	Atmospheric water Generator-3 Nos	3
2	Atmospheric water Generator-3 Nos	3
3	Programmable Variable Speed Peristaltic Pump- 2 Nos	2

HCP-0052

S.No.	Name of the Equipment	Qty
1	Pellet Making Machine	1

2	AODD Pump:	2
3	Centrifugal pump for solvent circulation	1

HCP-54

S.No.	Name of the Equipment	Qty
1	Custom made Sterilization Vessel for bioleaching	1
2	Hydrodynamic Cavitation reactor for extraction of REE	1
3	Slurry Pump (Heavy duty)	1
4	Refrigerated centrifuge	1
5	Weight Balance (0.0001 mg scale)	1
6	Autoclave	1

MLP-00087

S.No.	Name of the Equipment	Qty
1	Biomass Drier	1
2	VFD & accessories	1
3	Centrifugal pumps & accessories	1
4	Feed Mixer	1
5	Pulverizer	1
6	Spinner for biomass	1
7	Animal cages	1

The above list is tentative only and does not assure any guarantee for procurement. Addition/deduction can be made by the Institute as per requirement at any point of time.

for approval, P. J. Reddy
 11.7.23

Director, SSC

P. J. Reddy
 12/19/23