

Procurement Plan for Equipment's under CECRI Institute Fund (Infra)(2026-2027)		
S.No	Name of the equipment	Quantity
1	High Power 20kW Fuel Cell Test Station	1
2	Roll to Roll Slot Die Coater for continuos manufacturing of CCMs	1
3	High Performance Computing Clusters	1
4	Minor equipments (Refrigerator, pH meter, Ultrasonic bath, Magnetic stirrer with hot plate, Drying oven, Electronic Weighing Balance, Gas Cylinder regulator, Vaccum Oven, etc.,)	NA
5	Dry Electrode Hot Calender and Laminating Machine	1
6	Fibrosis Unit for Dry Electrode Making	1
7	Laser Metal Cutting machine with Accessories	1
8	Mixer Settler Modules for Metal Extraction	1
9	Mercury Porosimetry	1
10	BET Suraface area analyse with pore size distribution	1
11	Corrosion and Erosion Modules for COMSOL Multiphysics	1
12	Hot press machine with independent temperature controller	1
13	Laser Scriber	1
14	Source Meter, 200 mV → 100 V, 1-Channel, 10 (Pulsed Output)	1
15	Electropolishing Equipment	1
16	UPA (10 KVA)	2
17	Source Measure Unit	1
18	Servers/ Workstations	4
19	A portable galvanostat/potentiostat impedance analyzer	1
20	UV - Vis Spectrophotometer	1

21	Upgradation of battery tester with EIS channels	1
22	Hand-held XRF (X-ray Fluorescence) Spectrometer	2
23	Coating thickness Guage for concrete surface	2
24	Wi-fi devices	10
25	Different pumps for circulating the electrolytes	10
26	Tubular furnace	1
27	Network Switch	10
28	Weighing Analytical Balance (6 digits Accuracy) - For Green Firecrackers Work	2
29	Measuring instruments	1
30	Surface Profile Guage for concrete	1
31	Surface Profile Guage for steel	1
32	UPS 20 kVA with batteries	1
33	Calendering machine	1
34	Telephone devices and other accessories	70
35	Digital Power supply 5Amp,0-30V	6
36	Four point probe system	1
37	UPS-6kV with batteries	1
38	Electronic Weighing Balance	1
39	Biometric devices & RD/ AMC renewal	5
40	Refrigerators - For Green Firecrackers Work	2
41	Gas sensor Equipment (Sensor chamber, Humdity sensor, temperature controller, Mass flow controller)	1
42	Centrifuge machine	1
43	Magnetic Stirrer With Hot Plate	1
44	Experimental setup for Programmable logic control circuit	1
45	Experimental setup for Sensors and Actuators with Microcontroller	1
46	PH Meter	1

47	Conductivity Meter	1
48	Crimping machine with decrimper set-up	1
49	Magnetic stirrer with hot plate	1
50	Amber Desiccator	1
51	Doctor blade	1
52	Spray Gun	1
53	Air Compressor	1
54	Separator cutter-19mm	1
55	Coin cell electrode puncher	1
56	Digital thickness gauge	1
57	Digital multimeter	1

Note:

Ø The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of the Competent Authority.

Ø The procurement of the chemicals & consumables would be based on the need and ongoing requirement of R&D activities of Lab/Instt.

Ø The procurement is subject to the fund's availability/release of sufficient grant from CSIR / funding agency.

Procurement Plan for Equipment's under CSIR Funded Projects(2026-2027)		
S.No	Name of the equipment	Quantity
1	CSTR reactor for NMC cathode synthesis pilot level	1
2	Fuel cell Single Cell test station	1
3	Electrochemical workstation to work in ground and floating mode to carry out hydrogen permeation through metal specimen	1
4	In-situ Raman thin layer spectro electrochemical cell setup with potentiostat	1
5	High performance Galvanostat for current supply working range up to 1000 V and 1000 A	1
6	Electrochemical workstation	1
7	ORCAD PCB Designer software	1
8	Slurry mixer- 1 and 2L	1
9	Chiller	2
10	Column for Nickel and Aluminum Extraction	1
11	Fume hood	3
12	Weighing mechine	1
13	Magnetic stirrer	2
14	peristaltic pump	1
15	Hot air oven	2
16	Refrigerator - For storing chemicals	2
17	Vaccum oven	2
18	Sonicator	1
19	Vaccum pump	2

20	Solid State Optical Emission Spectroscopy	1
21	Oxygen Content Analyser	1
22	Metal Separation Equipments(Magnetic Separator, Crusher, Electrostatic Separator etc.,)	NA
23	Peristaltic pump	1
24	Minor Engineering Equipment	NA

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Procurement Plan for Equipment's under Externally Funded Projects(2026-2027)

S.No	Name of the equipment	Quantity
1	Hotmelt extruder for film processing	1
2	High Current and Power Advanced Fuel Cell Test Station to test variable single cells	1
3	Baltic test fixture for benchmarking MEA performance	1
4	Universal testing machine (UTM) with environmental chamber	1
5	Ceramic 3D printer	1
6	BET Surface area analyse with pore size distribution	1
7	Hydrogen gas compressor and filling station	1
8	Molten Salt Reactor for Calcium Production (5 kg per batch)	1
9	Furnace for Iron and Copper Prouduction from Chloride bath	1
10	Vertical furnace for Iron Sulfide Production	2
11	Glove box with crimping machine along with other accessories	1
12	Seebeck Measurement system	1
13	Rotating Ring Disk Electrode set up with Bipotentiostat	1
14	Z-stacking semi-automatic pouch winding machine	1
15	Molten Salt Reactor for Iron Production (1700 deg C)	1
16	Potentiostat/Galvanostat	1
17	Switch mode power supply (SMPS)	2
18	Pulse rectifier, customized data acquisition and processing system	1
19	Portable gas chromatography	1
20	Gas analyzers	1

21	Source measuring unit	1
22	Battery cyclor/tester	1
23	Programmable muffle furnace (1) & tubular furnace (1)	1
24	Microindenter	1
25	Fumehood	1
26	Digital multimeter with with Graphical Touchscreen	1
27	4-probe meter	1
28	Slurry mixer	1
29	High precision laboratory weighing balance	1
30	Desktop	1
31	Peristaltic pump	2
32	Hot Air Oven	1
33	DC POWER SUPPLY	1
34	Overhead stirrer	1
35	Standard electrochemical cell kit	1
36	Air Compressor	1
37	Ultrasonic Bath	1
38	Magnetic Stirrer with hot plate	4
39	Vacuum Pump	1
40	pH Meter	1
41	Dissolved Oxygen Analyzer	1
42	Titrator	1
43	Chemical storage system	1
44	pH meter	1
45	Weighing balance	1
46	Multimeter	1

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Procurement Plan for Consumables(2026-2027)

Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)			
		Out of CSIR Infra Grant	Out of CSIR Funded Projects	Out of Externally Funded Project (EFP)	Total (Rs. In Lakhs)
1	Chemicals (Metals, Salts, Chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	115	323	237	675
2	R&D Consumables for closed loop systems (Lithium Ion Battery Consumables, Spares for High End Equipments, Membranes etc) and Other Consumables (Ores for Rare earth metals extractions, Raw Materials, Packing Material, Column, Syringes, Transcriptome and Metagenome Analysis, Metabolites analyses, Farm Consumables, TLC Plates, Filter papers, Planting materials, seeds, Chemical standards, Essential oils, Standard aroma molecules, Animal feed, Cell Lines, Agriculture accessories, etc.)	410	206	32	648
3	Glass wares (Beaker, Test tubes, Dessicator, Conical Flask, SMF, Pipettes etc)	5	22	5	32
4	Plastic wares (Yellow tips, Blue tips, PCR Tubes, Centrifuge tubes, Petri plates, P-2 P-10 tips, Beakers etc)	1	8	12	21
5	Toner Cartridges(HP, RICOH, KONICA MINOLTA, EPSON)	12	2	0	14
6	Batteries(Sealed Maintenance free)	3	8	5	16
7	Gases (High Purity Gases like Nitrogen, Argon, CO2, Nitrous Oxide)	34	52	0	86
8	Maintenance/AMC/repairing of existing equipment	252	64	0.2	316.2

9	Stationery items (80 GSM Photocopy papers, Pen, Pencils, File Covers, Spiral Bindings, Envelops etc.,)	20	2	0	22
10	IT / software-related Items (COMSOL etc)	82	0	24	106
11	Furniture (Chairs, Tables, Conference Tables, File Racks, Dispensary Furnitures etc)	100	0	0	100
12	Electric Items (Fans, Tubelights, Switches, Wires, Testers etc.)	40	10	10	60

Note:

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Ø The procurement is subject to the fund's availability/release of sufficient grant from CSIR / funding agency.

Ø The indicated procurement value is an estimate only.