

सीएसआईआर- सीएसआईओ चेन्नई केंद्र
CSIR- CSIO CHENNAI CENTRE

PROCUREMENT PLAN

A	FOR THE FINANCIAL YEAR 2025-26
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A(a)	EQUIPMENT
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(i)	Equipment: Out of CSIR Infra Grant / CSIR FUNDED PROJECT/ GAP/SSP
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Sl. No.	Name of the Equipment	Approximate Cost (Rs. in Lakhs)
1.	Rapid Prototyping equipment - High build volume FDM 3D Printer	12.00
2.	Rapid Prototyping equipment - High build volume SLA 3D Printer	12.00
3.	3D Scanner with dedicated laptop and Reverse engineering Software installed	7.00
4.	Mechanical Design software with basic FEA capability license (perpetual)	8.00 – 10.00
5.	Desktop Computer high end specification	3.00 – 4.00
6.	Line Interactive UPS 1100 VA	0.40
7.	Electronic materials fabrication facility / Electrospinning Equipment with high end specification	15.00
8.	Test chamber for Gas sensor and entire pipeline set up with mass flow controllers, vacuum pump, pirani gauge etc.	15.00
9.	Digital Source meter / Source Measure unit (SMU)	10.00
10.	Laptop or computer for running deep learning applications	1.20
11.	UPS for power backup	0.10
12.	Color Printer	0.10
13.	IR Calibrator	9.50
14.	PRT Sensor	3.15
15.	S Type Thermocouple	6.25
16.	Thermo Hygrometer	4.90
17.	HV probe	1.00
18.	Pressure Hand Pump	2.00
19.	Spin Coating Machine	1.50
20.	Low Pressure 2D Materials Coating System	8.6
21.	UV Ozone Cleaner	1.15
22.	Muffle Furnace	5.40
23.	Cyclic voltammetry	10.00
24.	Laptop for R&D (Intel Core Ultra 9 Series)	1.98
25.	Workstation	16.00
26.	Workstation	24.00

27.	Climatic Chamber Compressing of Multi Gas Calibrator, Air Quality Chamber, Air Quality Analyzer	20.00
28.	Commercial RO System	5.00
29.	Vibration Sensing Setup Compressing of Vibrator Calibrator, Vibrator Isolated Table, Anechoic Chamber	20.00
30.	Fluke Solar PV Tester and Performance Analyser	8.00
31.	Fluke Ti480 Pro Infrared Camera	5.00
32.	Ultrasonic Liquid Flow Meter	2.00
33.	DC Regulated Power Supply, 220V, 50Hz, Single Phase AC	0.75
34.	Programmable 80W Triple Output Power Supply	1.20

A(b)	CONSUMABLE
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Sl. No.	Category	Expected Procurement Value (In Lakhs)
1.	PVDF Powder (Mw: 530000 g/mol) -100g	0.20
2.	PVDF Powder (Mw: 370000 g/mol) -100g	0.20
3.	PVDF Powder (Mw: 180000 g/mol) -100g	0.20
4.	DMF solvent 99.8% purity – 0.5L	0.05
5.	NMP solvent 99.8% purity – 100 mL	0.05
6.	Acetone 99.8 % purity – 1L	0.02
7.	HMPA solvent 99.8 % purity – 100 mL	0.05
8.	Distilled water	0.02
9.	Graphite 5-20 micrometre grain size - 25 grams	0.08
10.	Syringe of 18-26-gauge sizes	0.06
11.	Lab coat, goggles, hand gloves pack	0.15
12.	PLA Filament materials for 3D printing	0.20
13.	PETG Filament materials for 3D printing	0.20
14.	TPU 95A Filament materials for 3D printing	0.30
15.	ABS Filament materials for 3D printing	0.20
16.	3M respirator N95 Masks for experimental purpose	0.10
17.	LCD display 7 inches	0.20
18.	Hydrogen Gas Sensor module	0.30
19.	Ammonia Gas sensor module	0.30
20.	Hydrogen sulphide gas sensor module	0.25
21.	ESP32 microcontroller	0.10
22.	USB cable	0.05
23.	Silicon wafer	0.50
24.	PDMS	0.05
25.	Poly vinyl alcohol (hot)	0.05
26.	Copper Sulphate	0.02
27.	Aluminium (metal) fine powder LR, Poly ethylene glycol, Ethyl acetate extra pure AR, Sucrose extra pure AR, Citric acid, Sodium acetate anhydrous for analysis, Sodium citrate tribasic Dihydrate	0.20
28.	Ammonia, Chloroform, N, N-dimethyl formamide, Toluene	0.20

29.	Crucibles	0.30
30.	Raspberry Pi 3B+ Microcontroller	0.05
31.	Voltage Current Energy Sensor Module 100V 200 ADC	0.01
32.	TV Stand for Mounting Digital Display	0.13
33.	AbhiKalpya Art Studio-Get a vibe Plastic Rectangular 12x18 Inch Photo Frame A3 Size Photo Frame for Wall Artwork/Painting (Brown)	0.24