

**CSIR – CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE,
PILANI (RAJ.)**

Annual Procurement Plan for FY 2024-25 of Equipment

S. No.	Item(s) Name
1.	THz quasi-optical detector
2.	THz photo mixer-based source and detector
3.	Workstations
4.	Desktop Computers
5.	VGSTUDIO+ CT Reconstruction
6.	X-Ray Radiation Meter
7.	Digital Multi Meter
8.	Display Monitors
9.	Laptop/ Mobile Workstations
10.	Mechanical subsystem for waste plastic sorting consisting of -Object pre-processing systems, - feeding systems, -singulation & anti-wrap units, - conveying units (liner & inclined), - sorting units (Pneumatic/ mechatronic), - spectrometer housing unit, - mounting bridge for optical units along with accessories, computational modules & control units.
11.	Industry-grade illumination units
12.	Table-top waste plastic sorter prototype with accessories, computational modules & control units
13.	Mini-portable Air compressors
14.	Software for Optical and mechanical simulation
15.	Optical Multiplexer
16.	Mid-IR Sensor development kit
17.	Near Infrared Hyperspectral Imaging (HSI) Camera with accessories Wavelength range - 950-1700 nm, Detector - InGaAs sensor with Software DLLs for in-line data acquisition and processing
18.	Fiber-optic multiplexers along with driver software
19.	Infrared detector modules
20.	System for THz Time-domain spectroscopy
21.	Multi-Function laser printer
22.	Monochrome copier multifunction machine
23.	Video Conference Set up with other accessories
24.	Board & conference room Furniture
25.	Refrigerator (frost-free)
26.	Air conditioners
27.	Die-Sinking Machine
28.	High resolution Digital microscope
29.	Digital Multimeter
30.	Digital Clamp meter
31.	Digital Vernier
32.	Ultra Sonicator
33.	Hot Plate
34.	Air compressor
35.	Ion Pump
36.	TMP

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37.	Power Supply
38.	Weighing Balance
39.	Vacuum dessicator
40.	Dry scroll pump
41.	Ion Pump
42.	Hydrogen Furnace with UPS and chiller
43.	Vacuum furnace
44.	Rotary vacuum pump (capacity depends on the size of MW chamber)
45.	Infrared camera with display unit
46.	Full range pressure gauge with display unit
47.	Rotary pump, Infrared camera with display unit, Full range pressure gauge with display unit, HV differential probe
48.	Plastic & e-waste shredder
49.	Infrared camera with display unit
50.	Full range pressure gauge with display unit
51.	Rotary pump, Infrared camera with display unit, Full range pressure gauge with display unit, HV differential probe
52.	Controlled evaporator mixer
53.	IR spectrometer
54.	Hydrogen gas separator
55.	Hydrogen pump
56.	10 kwp solar PV power generation plant Monocrystalline >500W panels with its mounting structure and grid-tied inverter with necessary accessory
57.	Variable power benchtop ultrasonic transducer system
58.	High-end desktops and workstations
59.	Floater platform with solar panel and other accessories
60.	THz detector evaluation kit, Optical chopper and other accessories
61.	Probe Station (with cooling and heater) and Digital temperature controller
62.	Handheld mid-IR spectrometer
63.	Hot plate
64.	Spin coater
65.	Hot air oven
66.	Monitors, Printer, UPS (<i>multiple requirements</i>)
67.	Silvaco software
68.	Lab equipment: minor equipment like mixer, homogenisation, ultrasonic cleaning water bath
69.	Data analysis software: Required for verification of algorithms, PCB design, simulation
70.	Ultrafast GC
71.	Humidifier and dehumidifier
72.	Camera
73.	Light spectroradiometer
74.	Lux meter
75.	UPS (<i>multiple types</i>)
76.	Defibrillator Machine
77.	Defibrillator Analyzers

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78.	Infusion Pump
79.	Infusion Pump Analyzer/Infusion device analyser
80.	Syringe Pump
81.	Volumetric Pump
82.	Patient Vital Sign Simulator
83.	Electrical Safety Analyzer
84.	Electronic Balance
85.	Electrosurgery analyzer/ Cautery Analyzer
86.	Gas Flow Analyzer/Ventilator Analyzer
87.	Conditioner
88.	Air Compressor
89.	Advanced Optical Inspection (AOI) System
90.	IP6x test setup for flame proof system and inverter test system
91.	Setup for Gas Inlet for Spark Test System, Compressors
92.	Solar Lead Acid Batteries (8Nos)
93.	Thermic fluid Pump
94.	Solar Lead Acid Batteries (8Nos)
95.	UV Intensity Meter
96.	High voltage and high-frequency pulse power supplies
97.	Fiber optics temp. measurement system
98.	UV-VIS Radiation Source
99.	Gas analyzer
100.	Hanna Multi-parameter
101.	Keithley 2002 High Performance Multimeter
102.	Power meter with pulse power sensor
103.	Conveyer belt/ motorized system for sample turning
104.	Cavities with sample moving mechanism, customized waveguide components, SS cavity with carbon filter,
105.	Gas separation scrubber for H2
106.	High performance workstation and UPS
107.	FPGA Boards (<i>multiple requirements</i>)
108.	mm-wave(fmcw) radar development/evaluation boards and its accessories
109.	mm-wave(fmcw) radar based PC Interface board and its accessories
110.	mm-wave(fmcw) radar based Data Capture Board for high-speed data and its accessories
111.	Sister development/evaluation board and accessories
112.	THz detector evaluation kit, Optical chopper and other accessories
113.	Comsol Software
114.	Software (origin, mathtype, pdf software etc)
115.	Power supply for electroplating
116.	Miscellaneous lab equipment of lower value
117.	Vacuum cabinet/environmental cabinet etc
118.	Vacuum pump
119.	SMU
120.	Software ansys, comsol etc
121.	Monochrome Printer

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122.	UPS with Battery Bank
123.	VR Headset and 3D modelling software, Oculus Quest All in One system, Adobe Software
124.	High End precision Workstation /High End precision Laptop
125.	Deep Reactive Ion Etching (DRIE)
126.	Effluent Treatment Plant (ETP)
127.	Fire Alarm System
128.	CCTV Camera System
129.	DI water system
130.	AR/VR Headsets (Including Accessories)
131.	Tablet Device with Media Recording and other accessories
132.	Minor Equipment for lab usage like SMPS, Table Lamp, Fan etc
133.	RO water System
134.	Laser Dicing Machine
135.	Microwave Plasma CVD System
136.	Electron Beam Welding System
137.	Laser Induced Breakdown Spectroscopy
138.	Precision Micro/ nano stage
139.	Precision hand-held spectrometer for the wavelength measurement
140.	Ion Beam Milling Machines
141.	Spray coating machine
142.	Plasma Dicing Machine
143.	Books, magazine
144.	LVF, Sensor Array, LiTaO3 and PZT wafers, Chips, Die
145.	LVF 5.5um-11um, 128L TMI SP0.5 Chip, Thermal IR emitter, IR Emitter Bar EBS.5.100.0
146.	Raman Spectrophotometer
147.	NIR Spectrophotometer
148.	RF Power Meter with Sensor
149.	Circulators and high-power load
150.	Probe Station (With cooling and heater) and Digital temperature controller
151.	Handheld mid-IR Spectrometer
152.	Hot Plate
153.	MATLAB
154.	Three Phase Power Analyzer and accessories
155.	4K data acquisition setup for endoscopy tower
156.	Rework station
157.	NMR Spectrometer
158.	Density Meter
159.	Refractometer
160.	Hand held Raman
161.	Computed Tomography (CT) (X-RAY Based)
162.	Flourescence Spectrophotometers
163.	Video Surveillance System for Institute
164.	3D Printer.
165.	Optical Bench
166.	Firewall (Hardware and Software)

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167.	Solo PLS Toolbox software
168.	Vector Network Analyser (VNA)
169.	High Efficiency Modular Pick & Place Machine
170.	Automated Optical Inspection (AOI)
171.	Laser Trimming System
172.	Beam Forming Box
173.	Tarang Software
174.	X-RAY Inspection System With 3D Computed tomography (CT)
175.	Solar Powered Battery

Please note:

- The procurement plan (2024-25) is not an intimation of procurement by CSIR-CEERI.
- This procurement plan does not impose any obligation on the Director, CSIR-CEERI, for the necessary procurement of these items.
- The procurement is subject to the fund availability and R&D priority during the current financial year or in the coming years.
- The Annual procurement plan is subject to updation on the commencement of new projects/ programmes and other emergent requirements subject to fund availability in the Financial Year 2024-2025, or after that.