CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE
(CSIR-CEERI),
PILANI (RAJ.)

Updated on Date: 08/07/2025

Procurement Plan for FY 2025-26 to FY 2028-29 of Consumable Items

S.NO.	Item(s) Name
1.	IR windows and source
2.	IR detectors
3.	Minor electronic components
4.	PCB fabrication
5.	Pumps and accessories
6.	Mechanical Assembly and fabrication
7.	Miscellaneous mechanical components
8.	IR LVF filter-based array
9.	Lock-in amplifier boards
10.	Electronic components, ICs and other computer accessories
11.	Motor controller
12.	Optical components
13.	VCSEL laser and drivers
14.	Office Stationery (including for recruitment, office usage etc)
15.	Mechanical & PCB Fabrication
16.	Embedded development boards, processor chips, OLED, LCD, ECG electrodes, Sensors, Lithium Batteries, switches, steering wheel covers, conductive Fabrics, Conductive sheets, Multiple gauge wires, PCB soldering Stand, Soldering accessories, Multiple type USB cables, Speakers, Electronics writing pads, X-ray medical aprons, SD cards, Pen drives,3D Printing prototypes, Educational Kits, RAM, Hard Disk
17.	Field Data Collection
18.	Photo-optic units consisting of IR Sources, Lenses, collimation units, probes, fibers, mounts, detectors, and other accessories.
19.	Assorted Electronic components, sensors, I/O Units, RF modules, cables, connectors, convertors, extension cords, development boards, and Adaptors.
20.	Raw materials and tools for mechanical fabrication work such as aluminium/MS frames, aluminium/copper sheets, assorted nuts, bolts, bearings, springs etc.; rubber/plastic hose; pneumatic/hydraulic valves and systems; and other accessories
21.	Batteries, power supply modules, power backup system
22.	Items for conducting Training program and workshop
23.	Printer cartridges and toners
24.	PCB fabrication and stencil work
25.	Assorted pneumatic/hydraulic components for sorting
26.	IR Lamps of assorted wattage
27.	Electrical wires and cables
28.	Materials for reflective coating
29.	NIR Lenses of different focal lengths
30.	NIR optical filters

31.	NIR photodiodes
32.	Assorted electronic components
33.	Assorted mechanical tools and components
34.	NIR Range optical cables
35.	Interface Cards and boards
36.	Slit, Mirrors, Lens, Doublet, Cuvette holder, etc
37.	PCB Fabrication
38.	Registration fee for the staff attending seminars, conferences, etc.
39.	PU connector
40.	Motor with controller
41.	Pulley
42.	Bearing
43.	Caster Wheel
44.	UHV pneumatic valve
45.	SMPS
46.	Fluke DMM fuse
47.	Rail mount Contractor
48.	Spray paint
49.	Acrylic sheet
50.	Teflon rod
51.	Teflon sheet
52.	SS Rod
53.	Gloves
54.	Tissue paper
55.	Single Axis robotics arm with motor and controller
56.	PLC
57.	HMI
58.	Rail mount Relay
59.	Connector
60.	ADC card
61.	Temperature card
62.	RTD
63.	Thermocouple
64.	PU Pipe 6,8,10,12 mm
65.	Thimble
66.	Molybdenum sheet
67.	316 Stainless steel Rod
68.	K-10 Tungsten Rod/ slab
69.	Tungsten Wire

70.	Tungsten Rhenium Wire
71.	Thoriated tungsten wire
72.	Tungsten-Re Heater
73.	Molybdenum wire
74.	Nickel Wire
75.	Nichrome Wire
76.	Ceramic isolator
77.	Metallize ceramic
78.	High-density graphite
79.	Molybdenum sleeve
80.	Tantalum sleeve
81.	Molybdenum powder
82.	Ruthenium powder
83.	Alumina
84.	Barium Carbonate
85.	Calcium carbonate
86.	Aluminium oxide
87.	Nitric Acid
88.	Methanol
89.	Acetone
90.	Potassium ferrocyanide
91.	Sodium hydroxide
92.	Thyristor
93.	Vacuum gauge with controller
94.	Flow sensor
95.	Pressure Sensor
96.	Vacuum Bel jar
97.	Sputter Gun
98.	RF source, RF components, waveguide, coaxial line, SS sheet, Rod, Teflon sheet and rod, PLC controller, microcontroller, semiconductor devices, display, embedded board, passive components, wires, ICs, PCBs (*multiple quantities*)
99.	1kW CW Magnetron with Power supply
100.	Gas separator
101.	Material like SS, teflon, quartz
102.	WR 340 waveguide
103.	Fabrication of 915MHz hydrogen applicator
104.	Gaseous components like pneumatic valve, filter, pp tube, connectors
105.	Electrical & electronics components for PLC-based controller
106.	Temperature sensor with controller
107.	Gas cylinder/refilling- CH4, CO2

108.	Materials like SS, quartz, Teflon, copper
109.	Wires, DC MCBs, Solder wire, cartridge, DC loads and other minor components
110.	PCBs, MOSFET, Microcontroller, Current sensor, Magnetic cores, Breakout boards, Diodes, Connectors
111.	SMD DC-DC converter, Gate driver, optimizer modules, CR2032 cells, LEDs, IP 65 boxes, displays, SMD resistors, carbon wire resistors, Electrolytic capacitors, DC fans, heat sinks, power inductors, other petty items
112.	Thermocouple, SD cards, cables, passive probes, minor consumables
113.	resistive loads, Heavy duty 48/72 V Lithium batteries
114.	PCBs, PCB mount hall sensors, SD card readers, RTCs, breakout boards, IoT devices
115.	Actuators, control modules, Modules for existing Matlab software for hardware and software in loop validation, other petty items
116.	pH, TDS, temperature, chlorophyll, turbidity sensors, voltage sensor, current sensor, etc.
117.	Internet of Things (IoT) enabled- devices, ultrasonic transducers, batteries, power cables, linear ICs, semiconductor devices, passive components
118.	controllers, heat sinks, Actuators, GPS modules, IP68 boxes,
119.	Electronic components for charge amplifier-based readout design (opamp, Jfet, capacitor, resistor, microcontroller, li-ion battery)
120.	PCB fabrication (*multiple revisions and quantities*)
121.	Thick-film paste/ reference sensor with readout unit
122.	Thick-film paste (Ag, Pd/Ag, Au, Au/Pt, Pt, etc.), resistor paste, reference sensor with readout unit, Electronic components (Operational amplifiers, ICs, JFETs, Capacitors, Resistors, Microcontrollers, Li-ion batteries), PCB fabrication, Kim Wipes, Beakers, UPS batteries, cartridges, computer accessories Screen Preparation Materials, Solder pastes, solder wire, Epoxies, Sealants, Adhesives, High-resolution photoplots and masks, PZT powder/paste, PZT plate/disc/ring, Spares/accessories of existing equipment, wifi & Bluetooth modules, LCDs, small solar panel, adapters, cables, connectors etc.
123.	Kim Wipes, Beakers, UPS batteries, Cartridge etc.
124.	Photoresists, IR filters, Semiconductor grade etchants for metals/dielectric, Organic and inorganic chemicals
125.	Pyroelectric materials/Targets Chemicals, Silicon, SOI and Glass Wafers, Silicon micromachining Chemicals, PCBs and accessories, IR windows
126.	IR Windows, Epoxy: Conducting, Nonconducting and potting compound,
127.	PCBs and accessories, Piezoelectric materials, Device packages, headers, Teflon and similar materials, Glassware, printer cartridges and Computer accessories.
128.	IR filters and small petty items as required for the project, Electronics components: PCBs, ICs, resistors, capacitors, and accessories
129.	Pyroelectric substrates/targets, chemicals, glass substrates, metallic wires/pellets, electronic components, PCBs and accessories, Electronics components: PCBs, ICs, resistors, capacitors, and accessories, Piezoelectric materials, Device packages, headers, Teflon and similar materials, Glassware, printer cartridge and Computer accessories etc.,

130.	THz Windows, THz source, THz detectors, IR filters, IR windows, Epoxy: Conducing, Nonconducting and potting compound
131.	Photoresists, developer, Semiconductor grade etchants for metals/dielectric, Organic and inorganic chemicals. chemicals, Silicon, SOI and Glass Wafers, Silicon micromachining Chemicals, PCBs and accessories
132.	LiTaO3 wafers, Photoresist, developer, chemicals
133.	Silicon wafers
134.	IR detector array, LVF, IR Windows
135.	Epoxies
136.	Metal beads, Sputtering Target
137.	IR Source, Electronic Components, PCBs
138.	High purity gases
139.	ICs (DC buck convertor, amplifier, connectors, arduino, display, etc)
140.	Photoresists, etchants, plating soln etc
141.	Consumable requirements for common R&D Lab facilities in Clean Room and Workshop (generic/ miscellaneous)
142.	Gold (Au pellets/shots)
143.	Ethanol
144.	Flexible PCB
145.	PCB for modules/ customised circuits
146.	Microcontrollers
147.	Capacitor, Resistor, Inductor etc. (*multiple components & quantities*)
148.	LiPo battery
149.	Bluetooth module
150.	IO-PET
151.	Keyboard
152.	Mouse
153.	Printer cartridges
154.	PET sheet
155.	Al foil
156.	PFOTS
157.	Battery charging IC
158.	Battery protection IC
159.	Dual N-channel enhancement mode power MOSFET
160.	LEDs
161.	FDC
162.	Crystal Oscillator
163.	Flash IC
164.	USB connectors (*1.1 type A etc.*)
165.	Switch (push button)

166.	DC power jack connector
167.	AC/DC power adapter with cable
168.	PEDOT: PSS
169.	PVDF-HFP
170.	EMIM TFSI
171.	Outsourcing for customised requirements (Fabrication of GaN HEMTs)
172.	Two Power Amplifiers with 15 to 20 GHz and two W-Band, 75 to 110 GHz
173.	Optical sources, detectors, filters and windows, adulterants, oils
174.	Electronic components, enclosures, chemicals, mechanical parts, electrodes and multi-layer PCB fabrications
175.	Plants and seeds, chemicals and insecticides
176.	Pipe and fittings
177.	Electronic components, wires, PCB etc
178.	PLC and accessories
179.	Dose pump and other accessories
180.	Keypad 20x4, Microcontrollers ESP32, PTH LEDs, Servo DC motors, 555 timer, solder wires, resistors 1 KOhm, 4.7 K ohms, Adapters, Extension boards, jumper wires, PCB Boards, USB to serial Cables, BLE/WiFi boards, MCP6022, CD4050 ICs , Brad Boards, Zero PCBs, Folder, Notebook, Pens, LEDs, Wires, Sensors (Soil, temperature, humidity, acoustic etc) (*multiple quantities*)
181.	PCB for Voltage and Current Sensing, Auxiliary Circuits, PFC Circuits
182.	Miscellaneous Mechanical Components, Induction Coil, air and liquid pumps
183.	Third party testing of Milk for Bacteria Count, NO3, NO2 content in water etc.
184.	Litz Wires, Ferrite Cores, Lugs,
185.	PCB for Resonant converters, Battery Charger circuits
186.	Electronic Components MOSFETs, microcontrollers, isolated converters, opamps, drivers
187.	IGBT drivers, temperature Sensors, touch interface, isolated converters, opamps, drivers (*multiple quantities*)
188.	PCB for Pulse Generation Circuits, PFC and Sensor Boards
189.	Touch Display, microcontrollers, power devices, isolated converters, opamps, drivers
190.	Electronic consumables for lab & workshop
191.	Ultrasonic Sensor/ Transducer Fabrication
192.	Electronic Components, drivers, motors, Microcontrollers, OP-AMP, ESP32
193.	Aluminium Mirror Sheets, MS Sheets, Nylon Sheet, Acrylic Sheet, MDF Boards.
194.	Aluminium fin, Industrial-grade Copper Pipe and MS Pipe
195.	Wires, insulating material, connectors, Electronics Components, Digital temperature meter
196.	Synthetic Oil/ Normal Oil/coolant
197.	Vacuum Glass tube (~1m to 2m Length and ~15Cm Diameter)
198.	Leaded Solder Paste SN63PB37- Type 4
199.	IPA Liquid cleaning solution

200.	SMT Double Splicing Tape-8mm
201.	Nitrile Hand Gloves
202.	Servo Stabilizer
203.	Fire Cylinder Recalibration & Refilling
204.	Housekeeping Items for sanitation, office etc.
205.	Op-Amp, MOSFET, LNA
206.	RF Transceivers
207.	Voltage regulators, SMPS
208.	Sensors: Environment, GPS, accelerometer
209.	Microcontroller Units
210.	Display devices, keypad
211.	Cables & connectors
212.	Optical Components (Source & detectors)
213.	Calibration of Temperature Probes, Safety Analyser
214.	Calibration of Power Analyser, Oscilloscopes
215.	Calibration of Power Analyser, Oscilloscope
216.	Electronic Components, PCBs, Mechanical components
217.	IGBT drivers, Sensors, touch interface, electronic component
218.	Validation of Consumable content in water etc.
219.	PCBs and other Electronic Components
220.	Electronics consumable.
221.	Electronic Components Mosfets, opamps , drivers, PCBs
222.	Quartz Material
223.	Electrical Components/Items
224.	Metals/Insulators/vacuum components
225.	Cartridges, some lab and office stationery
226.	Gasline Components
227.	Metals and insulators – SS rod/OFHC copper, Teflon, Perspex rod, wires, SS sheet, Perspex sheet, ceramics
228.	Chemicals: organic solvent, chemicals, laboratory consumables, etc,
229.	Electrical and optical components etc. as required for projects
230.	Development boards, Kits, programmers, Integrated circuits, Discrete semiconductor products, Resistors, Inductors, Capacitors, coke, chokes, Potentiometers, Variable Resistors, Crystals, Oscillators, Resonators, Optoelectronics, Memory Cards, Modules, Communication devices (wired and wireless), Displays (OLED, LCD, TFT etc.)
231.	PCB development & fabrication, Mounting of components
232.	Tapes, Adhesives, Materials, 3D printer filaments, Computer/Laptop spare parts, Magnetics-Transformer, Inductor Components, Pumps, Battery products, Power Supplies (board mount, internal module, SMPS etc.),
233.	Fabrication of CMOS Data Converter IC, Semiconductor Devices

234.	Photoresists (SU8, S1818 etc.), Semiconductor Grade etchant for metals and dielectric, organic, inorganic and other chemicals and gases.
235.	Silicon, SOI and Glass Wafers, Silicon micromachining Chemicals.
236.	Piezoelectric materials, epoxy conducting and non-conducting, Photoresist Developer and small petty items as required for project, Device packages, headers, Teflon and similar materials, Glassware, printer cartridge and Computer accessories.
237.	Electronic components: ICS resistors capacitors and accessories.
238.	PVDF
239.	MPTMS
240.	ARDUINO development board
241.	Copper Wire
242.	Surgical Blades
243.	Micropipette
244.	Fabric Gloves
245.	Copper Tape
246.	Aluminium Tape
247.	Plastic Pipettes
248.	Hot Air Blower
249.	EMG sensor Parts and ECG electrode
250.	Neurosky mindwave kit
251.	ATMEGA328P SMD IC for ARDUINO Nano/UNO
252.	REES52 4Pcs NRF24L01+ Wireless Module with Voltage Regulating Breakout Adapter
253.	Gold Target
254.	Velcro straps
255.	Resistor, Capacitor
256.	ESP32 D4 SMD
257.	Zero PCB
258.	Digital Discovery Portable Logic Analyzer and Digital Pattern Generator
259.	Raspberry pi
260.	Robotic 3d printed hand
261.	Digital Vernier Calliper
262.	Teensy Development Board
263.	UHF Reader Based on Pico W / ESP32
264.	UHF Reader
265.	PiCoder - Compact DIY Raspberry Pi Pico Learning Kit
266.	ESP32 3.5 inch Touch RGB Display
267.	SSD, USB and other peripheral devices for Computer
268.	RAM 16/32 gb
269.	Sputter targets, FeGa, Al, FeCo
270.	Photoresist, Developer

271.	Gold Metal
272.	IR detectors, sources, gratings, filter, and other optical components
273.	TO headers
274.	Miscellaneous Electronic components (micro-controllers, displays, thermal printer modules etc.)
275.	PCB fabrication for various modules
276.	LN wafers
277.	Polyimide/ polymer sheets
278.	Thermal conducting and electrical insulating chemicals/ resins/ particles
279.	Device, Sensor Packages
280.	Electronics Components
281.	Photoresist
282.	Silicon Substrate
283.	Glass Wafers
284.	Gold Pellets
285.	Electrical and Electronic components (*as resistors, capacitors, ICs etc.*)
286.	PCB boards
287.	Evaluation boards
288.	Nano-VNA
289.	RF components cables and connectors
290.	Aluminium Sheet, Teflon sheet and rod, Sample material (grains), 3D printing filament,
291.	Temperature sensors, capacitive moisture meters, Heat sinks
292.	Electronic and electrical items (PLC CONTROLLER FBS 24IO Tr.PNP ETH + 6RTD, Temperature sensor module 6TC, RTD Sensor, GXU HMI Panel for PLC, 7.5"W TFT, SL + ETH, PLC TO PC Communication Cable, HMI TO PC Communication Cable, 2C/O Relay 24vdc with base, Power Supply for PLC, Panel Box 500*500*210mm, Emergency PB, Push Button, Indicator Light, Selector Switch, WIRING CHANNEL 45*60, MCB CHANNEL, Terminal strip for fork thimble (4 mm and 6 mm), TERMINAL Block 2.5mm, Pin type copper thimble, Fork thimble 4 mm, 6 mm, Fuse TERMINAL for 5A, 8A, 10A, 15A, Fuse 5A, 8A, 10A, 15A, Ethernet Module, 1 Port Rs232 + 1 Port, Contactor- single phase/20A, Contactor- 3 phase/30A, 4" 230 Volt panel mount axial fan, HARDWARE, Panel Sticker, thimble, spiral, MCBs, Network switches)
293.	Thermocouple, thermocouple readout display, Motor, Gearbox, Motor control and power supply, Pully, Belt, valves,
294.	Gas flow meter, steel angle valve, non-return valve, pressure gauge, high duty wheels, push connectors, PU gas pipes, pneumatic cylinders, electro-pneumatic valve, electromagnetic valve, diaphragm compressor, PPM Analyzer (for H2, CH4 & N2), H2 storage tank, H2 sensor, Gases (CH4, Bio CH4, NH3, H2), Carbon separator filter, SS gas line and fittings, small compressor, water pump
295.	RF Power meter with USB cable

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296.	Metal sheets, rods, profile channels of different dimensions (SS, Aluminium, etc.) of customized sizes, glassware for distillation and glass utensils, sample holders and accessories, tetler bags for gas samples, Non-metallic sheets & rods of different dimensions (PTFE, Nylon etc.), ceramic/quartz glass components, RF Choke, screws, nut-bolts, cutter blades, Electrical & electronics items such as transformer, magnetron heads, transistors, inductors, coaxial cable, power substrates, evaluation boards, capacitor, transitions, diode, switches, Fuses, wire, matched load etc., Frequency measurement boards, display devices, RF leakage detector, PLC controller, display devices, chemicals, SMPS & associated devices (customized), arduino and raspberry pi boards, RF components
297.	Laminates, material for antenna fabrications, high-frequency absorbers, Standard gain horn antenna etc
298.	Sputter targets, FeGA, Al, FeCo, BST
299.	High-frequency RF probes, Helmholtz Coil
300.	Mu metal, copper fleece, Lock-in-amp., Charge amp.
301.	Photoresists, developers, lab chemicals, removers etc.
302.	Computer accessories and printer cartridges (*multiple types based on compatibility*)
303.	Pyroelectric substrates/targets, chemicals, glass substrates, metallic wires/pellets, electronic components, PCBs and accessories, Electronics components: PCBs, ICs, resistors, capacitors, and accessories, Piezoelectric materials, Device packages, headers, Teflon and similar materials, Glassware, printer cartridge and Computer accessories etc.,
304.	THz Windows, THz source, THz detectors, IR filters, IR windows, Epoxy: Conducting, Nonconducting and potting compound
305.	Silicon, SOI and Glass Wafers, Silicon micromachining Chemicals, PCBs and accessories, Photoresists, developer, Semiconductor grade etchants for metals/dielectric, Organic and inorganic chemicals.
306.	OFHC copper rod and sheet, Brass rod and sheet, micro-fabrication tools, high frequency cables, adapters, computer accessories, fabrication of components, SBC boards, gold and silver pellets, upgradation of software, brazing alloys required for development, and characterization
307.	Power Amplifier with 15 to 20 GHz and two W-Band, 75 to 110 GHz
308.	ICs and development board (DC buck converter, amplifier, connectors, arduino, display, etc)
309.	Photoresists, Si Wafer, etchants, plating solution etc.
310.	PCBs, desiccators, etc
311.	Vacuum pump, devices and other Miscellaneous Items
312.	Shielding Box for CV and RF measurements
313.	DC and RF probes, cable, adapters, calibration substrate etc
314.	Detectors Electron multiplier
315.	Electroplating Set-up
316.	Mixer, bandpass filter and other FE components
317.	Gold Electroplating Solution
318.	RF packages
319.	Impedance analyzer accessories

320.	Al foil paper, Glove, Filter paper, SS material and accessories and other items like Printer cartridges
321.	Wafers, Photoresists, Developers, Metal electrolytes and etchants, Local oscillator
322.	Raw materials for parts fabrication, brazing alloy, cathode, ceramics, window ceramics. RF components for cold test in the W-band frequency range for limited RF performance testing.
323.	Laminates, material for antenna fabrications, high frequency absorbers, Standard gain horn antenna etc.
324.	Motor controllers (*varying requirements*)
325.	Other PCB fabrication components & Accessories
326.	Metal electrolytes and etchants, Local oscillator, Wafers, Photoresists, Developers
327.	Internet of Things (IoT) enabled- Devices, sensors also include all cell, battery, power cables, and other minor components needed for data collection and portable data loggers, Data handling software and tools and other minor components needed for data collection, Modules for existing COMSOL and Matlab software for hardware and software in loop validation, also semiconductor devices, cables, controllers, passive devices, Actuators, control modules, communication & web publishing modules.
328.	EEG Device Consumables used for Data Collection, Sensor Connectors, Embedded Platforms, other required Software Modules and hardware components/accessories.
329.	Electronic boards and consumables, consumables for computers and software modules.
330.	Components and Connectors for vision sensors with drone, connectors for embedded platforms, memory card for on-board storage, cables, other required Software Modules and hardware components/accessories.
331.	AMC for Five DGX Servers, NetAPP SSD for Servers, AMC for UPS, Storage expansion system (Expansion kit, HDDs, GPUs), Spare Parts of DGX Servers, Monitoring and Cluster Management software (For Automated Scheduling and Analytics of Users), other required Software Modules and hardware components/accessories.
332.	NVIDIA Compute Modules (SOM, Carrier Boards)
333.	Repair parts (motor, ECS, Frame parts, propellers)
334.	Battery: 6S 10000mAH
335.	Allen-key driver and other lab maintenance kits
336.	1D Lidar
337.	AirLink LTE Telemetry, LTE Link SE
338.	RTK Modules, RTK Base
339.	Computer Accessories, Printer Cartridge
340.	Raw materials for parts fabrication, brazing alloy, cathode, ceramics, window ceramics. RF components for cold test in the W-band frequency range for limited RF performance testing, GPU cards for parallel processing
341.	Methane gas
342.	Sensors
343.	Winding of copper coil
344.	Transport charges
345.	Aluminium target

346.	Refilling of nitrogen gas
347.	Alloy, gas line components
348.	Characterization solutions
349.	Colorimeter, empty cell
350.	Base fitting arrangements
351.	Fabrication Al jacket
352.	Battery bank
353.	Service charges of 160 kva 80 kva UPS
354.	Power supply upgrade and components
355.	Hydrogen Purifier (Spare of MOCVD)
356.	Sodium 3 etc
357.	Spare parts of VSM system
358.	Transportation of chemical benches
359.	Batteries (Multiple Types, including UPS)
360.	Liquid Nitrogen
361.	Liquid nitrogen tank filling
362.	Transport service one trip
363.	Renewable of adobe creative sw, figma, canva and other utility softwares
364.	Lab Chemicals
365.	Nitrogen gas (Refiling)
366.	ABS Material battery
367.	Nobel Metals (Pt, Au, Si, Ti, Ag, Pd, W)
368.	RF Front End Design Service
369.	Al sheet, pump etc.
370.	12V battery
371.	GS Dielectric etc
372.	4594.63-H72 PS2X4C2-AU S1.5(sensors)
373.	Filters
374.	Citric acid monohydrate
375.	MS Sq pipe, angle etc
376.	Repairing of mother boards,
377.	PLA Black etc
378.	Infrared emitter HIS 2000 RO etc
379.	Part number 588237, S86744
380.	CF Card
381.	9v battery etc
382.	Sputtering Target Gold 3" and 4"
383.	Sputtering Target Platinum 3" and 4"
384.	Cables 5 Core 4sqmm, 6sqmm,10sqmm

385.	Trade test material for mechanical, Civil, Electrical and other such requirements
386.	Chemicals (as required for Central Facility for Semiconductor, Vacuum Electronics and PCB)
387.	Chemical waste disposal
388.	Electronics components ICs, Board
389.	Laser Dicing Consumables
390.	Glass ware and cleanroom Aprons etc.
391.	Internet lease line
392.	AMC software
393.	LAN cable, IO Port, tools, UPS batteries
394.	Wire bonding tools and wires
395.	Adobe creative cloud renewal
396.	Plagiarism detection software renewal
397.	Grammarly Software
398.	ARVR Animation making SW and Tools
399.	Customised cards, logos, placards miscellaneous
400.	DIY Kits (Ardublock, Lego and other boards)
401.	Circuit Making Ink Pen
402.	Science Educational Kits (Science Experiments, Customised IoT, Drone Educational Kit etc.)
403.	Design Tools (Figma, Canva, Adobe)
404.	Brain signal motivs
405.	Screen Recorder
406.	AV Accessories (Speakers, Mic, Camera, Audio Video & Display Accessories etc - set)
407.	SMPS (varying performance)
408.	LCD Panels for PCB
409.	SSDs/ HardDisks/ Cables/ Batteries
410.	Motors
411.	Boards & sensor modules for experiments
412.	RAM Sticks
413.	PCB (consumables: Resistors, Capacitors, LEDs, Solder Paste etc.)
414.	Plex Sheet
415.	Consumable for 3D printer
416.	Misc. items (like Batteries, Multimeters, USB drives, Google/Microsoft Storage space, USB adapters, File organizers, Computer Multimedia items like webcams, etc)
417.	Stack AR Model Service, Animation Service
418.	LED Light lamps/ panels
419.	Lego or stacking elements for school projects
420.	NMR grade Chemicals, solvents
421.	Solder paste, nozzles, feeders etc.
422.	Optical Filter

423.	Optical Source and detector (MIR, NIR, Visible)
424.	Automation boards
425.	ICs, Microcontroller, Display boards
426.	Wire bonding tools and wire spools
427.	Design fabrication and evaluation of customized ASICs
428.	Spare parts of sputtering machine
429.	Spare part of Vacuum Packaging Tools and Package
430.	Spare MFC, Gauges, Controller etc.
431.	SS Tubes, Valves, Connectors
432.	PP Tubes, Flexible connectors, Cylinder Valves
433.	PLC controllers, PCB connectors
434.	PCB fabrication, glue, SMD components etc.
435.	IC Packages, Cap etc.
436.	Fabrication of MEMS Based Devices and other Semiconductor devices as per the requirements (*Multiple Devices and units*)
437.	LVF 5.5um-11um, 128L TMI SP0.5 Chip, Thermal IR emitter, IR Emitter Bar EBS.5.100.0
438.	128 pixel pyroelectric line arrays.
439.	Mid-Infrared pulsable emitter.
440.	Optical Window (ZnS)
441.	Fabrication of Gyroscope
442.	LVF, Sensor Array, LiTaO3 and PZT wafers, Chips, Die
443.	MOSFETs, Diodes, IGBTs, Solid State Relay, Thyristors, SCRs, TRIACSs
444.	Gate Driver ICS, Voltage and Current Sensors, OPAMPS, Micro-controller, controller ICs.
445.	Evaluation boards, PCBs, micro-controller boards, Communication boards, IoT Boards, HMI Display, TFT/LCD Display, Keypad
446.	Wires, Litz wires, Resistances, SMD capacitors, Electrolytic capacitors, Inductor cores, power inductors, Ferrite cores, ferrite beads, mechanical relay
447.	**RF Passive Components :** Waveguide to Coax Adapter (Right Angle), Waveguide to Coax Adapter (Straight), Tapered Transition, 90-Degree E-plane Bend, Directional Coupler, Waveguide Straight Section, High Power Termination, 90° (RH) Twist, 45° (RH) Twist, Dial Type Attenuator, Direct Reading Attenuator, Waveguide to Coax Adapter (Right Angle), Waveguide to Coax Adapter (Straight), Tapered Transition, 90-Degree E-plane Bend, Directional Coupler, Waveguide Straight Section, High Power Termination, 90° (RH) Twist, 45° (RH) Twist, Dial Type Attenuator, Direct Reading Attenuator, Termination Load, RF Co-Axial Cable, 6 inches, RF Co-Axial Cable, 40 inches, RF Co-Axial Cable, 60 inches, 1mm (Female) End Launch Connector, 1mm (Female) Vertical Launch Connector, 0.8 mm (Female) Vertical Launch Connector, 1mm (Female) to 1mm (Female) RF Adapter, 1mm (Female) to 1mm (Male) RF Adapter, 1mm (Male) RF Matched Termination, Power Amplifier, VCO, Mixer, Frequency Multiplier. Termination, 1mm (M) to 1mm (M) Flexible RF Co-Axial Cable, 60 inches, Power Amplifier (solid state), VCO (solid state), Mixer (solid state), Frequency Multiplier (solid state).

448.	Internet of Things (IoT) enabled- devices, ultrasonic transducers, batteries, power cables, linear ICs, semiconductor devices, passive components
449.	IR emitters
450.	Conducting and Non conducting epoxies
451.	Copper tubes and other items for gas cell fabrication
	Miscellaneous electronic items (resistor, capacitor, soldering wires, blank PCB, etc.)
	PHOTOESIST
452.	Gas Cylinders
453.	PET/ Polyimide Sheets
454.	3D Printing Consumables
455.	Gas connectors, fittings, regulators, headers and Computer accessories and parts, etc.
456.	Fabrication of Prototypes, scanning structures, PCBS, conference registration fees, etc.
457.	VCSEL lasers
458.	THz optical components
459.	Electronics, mechanical components and accessories
460.	Maintenance of office equipment, miscellaneous and unforeseen, etc.
461.	Electronic components and ICs and other computer accessories
462.	Mechanical & PCB Fabrication
463.	Raw materials for parts fabrication, brazing alloy, cathode, ceramics, window ceramics. Upgradation of existing PC to high end workstation with GPU card for parallel processing.
464.	Epoxies
465.	LiTaO3 wafers
466.	Pyroelectric materials/Targets Chemicals, PCBs and accessories, IR windows, Epoxies, Packages, Silver/Gold Material,
467.	Pyroelectric substrates/Targets Chemicals, PCBs and accessories, IR windows, Epoxies, Packages, Silver/Gold Material
468.	Pyroelectric substrates/targets, chemicals, glass substrates, metallic wires/pellets, and accessories, Piezoelectric materials, Device packages, headers, Teflon and similar materials, Glassware, printer cartridge and Computer accessories etc.,
469.	Electronic components, PCBs and accessories, Electronics components: PCBs, ICs, resistors, capacitors,
470.	Piezoelectric materials, epoxy conducting and non-conducting, Photoresist Developer and small petty items as required for the project, Device packages, headers, Teflon and similar materials, Glassware, printer cartridge and Computer accessories.
471.	Gas separator/PSA
472.	Cold trap bath/Condenser
473.	PLC components
474.	1kW CW Microwave with power supply and cooling unit
475.	Waveguides, horn antenna, stub tuner
476.	Material like teflon, SS 304m Quartz Thermocouple

477.	RF source, RF components, waveguide, coaxial line, SS sheet, Rod, Teflon sheet and rod, PLC controller, microcontroller, semiconductor devices, display, embedded board, passive components, wires, ICs, PCBs
478.	Workshop components: Metal Rod (Brass, Stainless Steel, Die Steel, Mild Steel, Aluminium etc.), Metal Sheet (Brass, Stainless Steel, Die steel, Mild Steel, Aluminium etc.), Cutting Tools (EDM Wire & filters, HSS Tool Bit, HSS Drill, Bit, HSS Centre Drill, Milling Cutters, Carbide Bit, Bi-metal, Band Saw Blade, Grinding Wheels, ER Cylindrical Collets & Chuck with M Nuts etc.), Hand Tools (Cutting Files Rough & Fine, Hack Saw Blade, Emery Paper, Scribers, Centre Punch, Rivets & Rivet Gun, screw, nut, washer etc.) Other Consumables (Lubricant Oils, Soluble Oil, Hydraulic Oil, Kerosene Oil, EDM Filter, EDM Resin, EDM Diamond, Guide 0.16 & 0.26 Upper & Lower, EDM Energizing Plate, EDM Nozzle Upper & Lower, Bulb, Wheel for Trolley, Printing of Job Cards, Antivirus, Spare Parts of machine, maintenance of machine & other consumables required in workshop etc.) Comprehensive maintenance of Central Workshop, Machine (Such as Turning Machine, Milling Machine, EDM, Wire Cut Machine etc.)
479.	Cathode pellet
480.	Thyristor/ SCR Metal (viz. Tungsten, Moly, Tantalum, SS, brass, Kovar, etc.) rod and sheet
481.	Teflon rod and sheet, and Acrylic sheet
482.	Chemicals (viz. Ba, Ca, Al_2O_3, HNO_3, Methanol, NaOH, Ag salt)
483.	UHV Components
484.	Nut, Bolt, Bearing, Shaft, Pulley, Belt, and Motor with Controller
485.	Electronic and Electrical Items
486.	Lab Consumables (e.g., Beaker, Gloves, Tissue Paper, Petri Dish, etc.)
487.	Non-metal rod and sheet (Graphite, Ceramic, glass, Teflon Tape, etc)
488.	GaN Epitaxy
489.	Photoresist, developer, organic, inorganic chemicals
490.	Metals for e beam evaporation (Ti, Al, Ni, Au, Pt)
491.	Gallium oxide wafers
492.	Mask fabrication plates
493.	Conductive epoxy
494.	Wafer box, Petry dish, Beaker, tweezer, sample box, face mask, gloves, glass plates, Q-tip, filter paper, Al foil, glassware, Al foil, vacuum desiccator, Chip holder box etc
495.	SiC wafers and epitaxy
496.	Si substrates
497.	Packaging material and organic chemicals for SiC processing
498.	Semiconductor switching devices (IGBT/MOSFETs/GaN)
499.	Gate drivers for IGBT/MOSFETs/GaN devices
500.	User interface prototypes (touch-screens, buttons, LEDs)
501.	Zip ties, cable ties, Velcro straps
502.	Voltage and current transducers and its related circuitry
503.	Passive components such as resistors, capacitors, and inductors

504.	Fuses and circuit breakers
505.	Solid state relays and contactors
506.	PCB fabrication and hardware assembly
507.	Heat sinks and thermal interface material
508.	Li-ion batteries
509.	Soldering wires
510.	Integrated circuits (ICs) and boards
511.	MCBs and relays
512.	Magnetic components and cores
513.	Opto-isolators
514.	High-frequency ferrite-core transformers
515.	Existing software license updates
516.	FPGA, embedded boards
517.	SMPS boards
518.	Sensing components and circuits
519.	Converters, stack and related circuits
520.	Microcontroller and embedded boards
521.	Communication interface circuits
522.	PCBs board connectors
523.	Soldering, Desoldering, Rework Components
524.	Resistor, Capacitor, Inductor, Crystal
525.	Embedded microcontroller and development board
526.	Integrated Circuits (ICs)
527.	Voltage, Current, Thermal, vibration sensors
528.	Thermal paste
529.	Boxes, Enclosures
530.	Heat sink
531.	High power chip dicing and packaging
532.	Gallium oxide epitaxy
533.	MFC, pneumatic valve for dielectric
534.	Sputtered Metal Target (Ti, Al, Cr, Ni)
535.	Sputtered Metal Target (Pt)
536.	Hardware enclosures and module fabrications
537.	Lead acid batteries
538.	Varistors / surge protection devices
539.	Gate drivers modules for IGBT/MOSFETs/GaN devices
540.	NTC thermistors / inrush current limiters
541.	Thermal paste
542.	Heat sink and heat sink compounds
543.	PCBs mounting connectors
544.	PCBs fabrications and hardware assembly

545.	Connecting wires with different size and diameters
546.	Fuses and circuit breakers
547.	Hardware fabrications
548.	Soldering wires
549.	Integrated circuits (ICs) and electronics boards
550.	MCBs and relays
551.	Magnetic components and cores
552.	Current and voltage sensors (e.g., Hall-effect)
553.	Bridge diodes and normal diodes
554.	Embedded computing module
555.	Circuit Protection
556.	Battery products
557.	Connectors, Fans, and Thermal Management
558.	Communication modules (WiFi, LoRA, ZigBee, GSM etc.)
559.	Existing software license updates
560.	Adhesive tapes
561.	Insulation materials / creepage barriers
562.	Enclosure materials (acrylic, aluminum sheets)
563.	Active components like power semiconductor devices
564.	Insulating pads
565.	High power packaging material, eutectic, ribbons etc., characterization tips
566.	Device packages and connector, Printer cartridge, UPS Battery, pen drives, HDD
567.	ICP-RIE Penning gauge and MFC
568.	Sputtered Metal Target (Au)
569.	High-voltage insulating tape
570.	High-voltage and high-current fuses
571.	Soldering, de-soldering and rework components
572.	Semiconductor switching devices (IGBT/MOSFETs/GaN)
573.	Test headers and pin sockets
574.	Thermal paste
575.	Digital isolators
576.	Hardware boxes
577.	Enclosures
578.	Cable assemblies, wires, cables with multiple strands
579.	Integrated Circuits (ICs) and embedded board platforms
580.	High-frequency transformer
581.	Soldering wires
582.	Probe tips
583.	High-voltage connectors and cables
584.	Opto-isolators
585.	Aluminium sheets, epoxy sheets, Teflon sheets

586.	Push buttons, nut bolt, manual switches, metal bolts
587.	Heat sink materials
588.	High-voltage shielded cables
589.	Low power DC-DC converter modules
590.	High-frequency ferrite-core transformers
591.	Dielectric / isolation materials
592.	Copper foil
593.	Active components like power semiconductor devices
594.	Thermal cooling fans with related thermal circuits
595.	Magnetics core bobbin
596.	Breakout boards
597.	Safety Materials Items
598.	High-voltage insulating tape
599.	Lift Off Resist (LOR)
600.	Headers and Packages
601.	Packaging materials

Please note:

• The procurement plan 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 availability of funds and R&D priority during the current financial year or in the coming years.

• The procurement plan is subject to updation on the commencement of new projects/ programmes/ research directions and other emergent requirements, subject to fund availability in the respective Financial Years or after that.