

CSIR-Central Institute of Medicinal & Aromatic Plants, Lucknow
PROCUREMENT PLAN*

(*Please read the note given at the end)

FOR THE FINANCIAL YEARS: 2024-25 & 2025-26

A	FOR THE FINANCIAL YEAR 2024-25
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A (a)	EQUIPMENT
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(i)	Equipment: Out of CSIR Infra Grant
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Sr. No.	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1	Magnetic stirrers	06	2.4
2	UV transilluminator	01	1.3
3	Microscopes (Stereo zoom / Inverted / Trinocular Stereozoom / Fluorescence	04	39.6
4	Analytical Balance	01	1.5
5	High Pressure Washer	01	0.15
6	Deep Freezers / Freezers	03	9.75
7	Vacuum Pumps (different capacities)	03	11.8
8	UV Cabinet	01	0.27
9	Han-held UV Light	01	0.50
10	CO ₂ regulator	01	0.12
11	Water baths / Circulatory chillers	03	2.65
12	Refrigerators/Freezers (varying capacities)	04	2.7
13	Sonicator (specialized for tissue) / Pico Sonication Device	01	30
14	Small sonicator for vials washing	01	0.5
15	Table top Mini Spin	02	0.45
16	Dry bath	01	0.6
17	Microwave Oven	01	0.15

18	Tissue homogenizer: rotor stator type	01	3.5
19	CO2 incubator for Animal Cell Culture	01	8
20	Voltage Stabilizers (5/10 kVa)	02	0.9
21	Ultrasonic Cleaning System	01	0.65
22	pH Meter & Conductivity meter	01	1.33
23	Chaff cutter with accessories	02	1.25
24	Blower	01	0.2
25	Photocopier	04	7.1
26	Centrifuges (Refrigerated/Non-refrigerated)	02	3.1
27	High Performance Furnace (>1200 degree C) & Accessories	01	6.5
28	Fire Extinguishers	160	17
29	Standing BP instrument	01	0.25
30	Stethoscope	01	0.25
31	Table top rotary shaker	01	0.7
32	Loading Dewar and cryo-tools for crystallography	01	2.0
33	Vortex	01	0.3
34	ICP-MS	01	190
35	PCR Machine	01	7
36	Real-Time PCR System	01	12
37	Hot air oven dryer	01	1.25
38	Nest of Sieves (5,2,1,0.5,0.25,0.1 mm)	01 each	0.95
39	DNA gel electrophoresis apparatus	01	0.8
40	Rocker protein gel double tier	01	1.5
41	Nitrogen generator for LC Q TOF MS system	01	18.07
42	MB Plough two bottom	01	0.3
43	Rotavator 2 meter	01	1.1
44	Tractor	01	8
45	Cultivator 9 bottom	01	0.2

46	1000 LPH RO water unit with SS	01	2.5
47	100 lt cap water cooler with inbuilt RO unit	02	3.0
48	Refrigerated Dry Bath Mixer / Thermal Mixer	01	2.6
49	E-Rikshaw	01	3.5
50	Sprayer Foggier Machines	02	0.5
51	Flow Cytometer	01	110
52	Digital Refractometer	01	5
53	BOD Incubator	01	1.3
54	Complete set of protein and immunoblotting apparatus	01	4.5
55	Mild steel hydraulic tractor trolley	01	2
56	Portable welding machine	01	0.35
57	Desktop Computers	15	14.5
58	UPS for Desktops (600/1000 VA)	8	0.64
59	Laser Printers (B&W)	3	0.85
60	Colour Printer	1	0.4
61	UPS (3/5/10 kVa) with batteries	3	6.5
62	Workstation(s)	02	7.8
63	Laptop(s)	06	5.7
64	Table microphone with audio amplifier and controller	20	7.5
65	LED/LCD Screens for Auditorium and display sites (Large / Medium size)	06	11
66	Network Switches and Wireless Router	--	5
67	Audio System (Cordless Microphone, Collar Microphone and Audio Mixer)	01 Set	3
68	Audio-visual conferencing system	01	1.5

69	Data Centre Hyper Converged Infrastructure (for AMS)	01	350
70	SSD 1TB	01	0.15
71	Air Conditioners (Window/Split), 1.5/2.0 tons with stabilizers	59	32.50
72	Micro-analytical Balance	01	11.00

(ii) Equipment: Out of CSIR Funded Projects

Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1	Refrigerated orbital shaker incubator	01	FTT020501	6
2	Electroporator	01	FTT020501	15
3	Refrigerated centrifuge	01	FTT020501	12
4	Differential Scanning Calorimetry	01	FTT020502	30
5	Stability Chambers	01	FTT020502	15
6	KF- titrator	01	FTT020502	5
7	Fabrication of new design steam generation system for solar hybrid distillation unit	01	FTT/MLP-21	4
8	Laptop	02	HCP-007	1.6
9	Concentric rings bath digital	01	HCP-007	0.8
10	Distillation Units	15	HCP-007	105
11	Gel Documentation System	01	HCP-007	7
12	Fabrication and installation of new designs flower extraction systems and its accessories	01	HCP-037	15
13	Laboratory Deep Freezer (- 20)	01	HCP-037	1.5
14	pH & EC Meter	01	HCP-037	1.5
15	laptop	01	HCP-037	1
16	Desktop PC with printer	01	HCP-037	1
17	CHNS Analyser	01	HCP-037	30

18	Gradient Thermal Cyclar	01	HCP-037 & Bioresource Project	6
19	Rapid Plant Stress Screening Device	01	HCP-057	8
20	Rapid Plant Stress Screening Device	01	HCP-057	6
21	AUTOMATIC POROMETER	01	HCP-057	11
22	IoT Weather Station, IoT Sensors enabled with solar	01	HCP-057	25
23	Laptop	01	HCP-101	1
24	Vibrating Microtome (A specialized variant of Microtome)	01	FIR020301	14
25	Deep Freezer (-20 °C)	01	FIR020301	1.5
26	Side by Side Refrigerator	01	FIR020301	1.5
27	Soil Testing Equipment	01	FIR020301	3.0
28	Gel Imaging and Documentation System (ChemiDoc imaging system)	01	MMP025301	24
29	Rotary Microtome (fully automatic)	01	MMP025301	8.7
30	Minor equipments	As per need	MMP025301	5
31	Fluorescence Microscope	01	MMP025301	24.7
32	Particle Bombardment Equipment / Gene Gun)	01	MMP025301	25
33	Deep Freezer (-80 °C)	01	MMP025301	8.5
34	Desktop Computer	01	MMP025301	1
35	Refrigerated Centrifuge (small)	01	FBR020303	5.5
36	Orbital Shaking Incubator	01	FBR020303	4.5
37	Light/stereo Microscope	01	FBR020302	5
38	Bead beater/incubator Shaker	01	FBR020302	5
39	Bioreactors for microbial fermentation (2L, 5L and 10L capacity) and accessories	01 each	PPP240002	300
40	Bioreactors for plant cell culture (2L, 5L and 10L capacity) and accessories	01 each	PPP240002	318

41	Bioreactors (100L and 500L capacity) and accessories	01 each	PPP240002	170
42	Biosafety cabinets	04	PPP240002	10
43	Autoclave	01	PPP240002	5
44	Refrigerated incubator shaker	01	PPP240002	15
45	Process scale Flash Chromatography	01	PPP240002	70
46	Process scale HPLC for purification	01	PPP240002	85
47	Analytical HPLC system for quality assessment	01	PPP240002	65
48	GC-FID for quality assessment	01	PPP240002	40
49	FPLC for protein purification	01	PPP240002	95
50	Freezer -20 °C	01	PPP240002	1.5
51	Freezer ultra-Low Temperature	01	PPP240002	12.5
52	Minor equipments for packaging and sealing of containers, rota evaporator, pH meter, weighing balance, 4 °C freezer, etc.	01 each	PPP240002	18

(iii) Equipment: Out of Externally Funded Projects (EFP)

Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1	Laptop(s)	02	GAP-523 & GAP533	2.00
2	Magnetic Stirrer with hot plate	02	GAP-526	0.30
3	Work Station with Printer	01	GAP-529	3.50
4	Fabrication of adsorption column for recovering compounds from distillation condensate	01	SSP-527	5.50
5	Hybrid Solar Distillation Unit	01	SSP-527	25.00

6	Laboratory Refrigerator (-20 °C)	01	GAP-540	1.00
7	Digital Plate Tube Rotator	01	GAP-540	0.45
8	Hot Plate Magnetic Stirrer	01	GAP-540	0.27
9	Rotary Evaporator	01	GAP-540	7.00

Note: The above proposed equipments, if could not be procured in FY 2024-25, would be taken up in the Financial Year 2025-26.

A (b)	CONSUMABLES
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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	R&D Consumables for closed loop systems (by equipment name eg. Kits for Illumina sequencer)	00	00	00	00
2	Chemicals (ex.- Different chemicals like Solvents (ether, hexane, methanol, ethanol, amyl alcohols, acetic acid, acetonitrile, inorganic acids, other organic chemicals, etc.), solid chemicals (powders / granular chemicals for vast experiments), Biochemical/s, Biochemical kits & enzymes for specialized R&D experiments, Diagnostic kits, Sequencing, Oligonucleotides, essential oils, Molecular biology kits, etc.) as per the need of various diverse kind of experiments.	87	350	116	553.00
3	Other Consumables (ex-Insecticide, Raw Materials, Packing Material, Column, Syringes, Transcriptome and Metagenome Analysis, Metabolites analyses, Farm Consumables, TLC Plates, Filter papers, Planting materials, seeds, Chemical standards,	75	280	200	555.00

	Essential oils, Standard aroma molecules, Animal feed, Cell Lines, Agriculture accessories, etc.) as per the need of various diverse kind of experiments.				
4	Glass wares (ex- Beakers, flasks, cleverger, tubes, reagent bottles, storage bottles, measuring cylinders, bacterial vials, other glass wares, etc.)	10	12	5.5	27.50
5	Plastic wares (ex- Micropipettes, pipette tips, flasks, cylinders, beakers, micro-centrifuge tubes, centrifuge tubes, storage boxes, cryo boxes, conical tubes, culture tubes, oak-ridge tubes, tube racks, other plastic wares, etc.)	18	10	5.5	33.50
6	Toner Cartridges.	7.5	1.0	1.5	10.00
7	Batteries, etc.	8.5	2.0	2	12.50
8	Gases (ex- Nitrogen, Helium, CO ₂ , Argon, etc.)	18	2.0	1.0	21.00
9	Maintenance/AMC/repairing of existing equipment	43	5.0	5	53.00
10	Stationery items (ex- Service book, A4 paper, files, file covers, file board, o-Ring files, markers, pen, stamp-pad, carbon papers, staplers & pins, all pins, board pins, etc.)	6.0	5.0	2.5	13.50
11	IT / software-related Items (MS Office, Cambridge Structural Database (CSD) Enterprise, etc.)	6.0	0	0.5	6.50
12	Furniture (Executive Chairs, executive tables, visitor chairs, computer tables, Conference Room furniture, HRD Class room furniturs, etc.)	20	0	0	20.00
13	Electric Items (Tube Lights, switches, wires, cables, MCBs, electrical boards, boxes, other electrical items, lamps, etc.)	6.5	1	1	8.50

B	FOR THE FINANCIAL YEAR 2025-26
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B (a)	EQUIPMENT (Major & Minor equipments)
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(i)	Equipment: Out of CSIR Infra Grant
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Sr. No.	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1	PCR Machine / Thermocycler/Gradient PCR	5	24.5
2	Refrigerated Centrifuge/Refrigerated Micro- Centrifuge/Spinwin	6	20.25
3	Weighing Balances (Precision/High Precision/Micro Analytical/Analytical)	6	7.9
4	Refrigerators (Frost free/Double door/single door)	5	2.8
5	Gel Documentation System	2	17
6	Magnetic Stirrers (with hot plate/without hotplate/SPINIT)	3	0.65
7	Oil Free Vacuum Pumps (Normal/Diaphragm)	2	9.5
8	Freezer (-20 degree C)	2	3.2
9	Vortex (Mixer / shaker / spinix/Digital)	4	1.68
10	pH Meters/Conductivity Meters	4	3.3
11	Spectrophotometers (UV- Vis/Multimode Plate Reader/Micro-Volume Nanodrop)	3	20
12	Gel Electrophoresis Units with Power Packs	2	2.7
13	Stereo Microscopes (simple/advanced)	2	9.25
14	Microplate shakers	2	1.16
15	Data Logger system with 10 and 1000 kg load cell	1	0.75
16	Reaction type torque transducer	1	0.25
17	Wood splitter	1	3
18	Vacuum Controller Rotavapor	1	2.5

19	Circulatory chiller	1	2.5
20	UV light lamp with cabinet	1	0.3
21	Hot Air Oven	1	1.5
22	Liquid Nitrogen (N2) Container with Racks	1	2.5
23	vacuum Oven with Cold Trap System	1	15
24	Lutron Professional Soil Moisture Meter (PMS-714)	2	0.3
25	Multi Parameter Analyzer	1	1.8
26	Camera with stand set up for taking Plant pictures	1	0.7
27	White Light Transilluminator	1	0.5
28	DESI-Mass Spectrometry Imaging System (MSI)	1	380
29	Thermo Mixer	1	5.5
30	Rotavapor	1	16
31	Deep Freezer (-80 degree C)	1	10
32	Dry Bath Incubator	1	1.5
33	Spray Dryer, Pilot Scale (3-5 kg/h)	1	18
34	25 KW Servo Stabilizer	1	4
35	Mini-Protein (Tetra Cell) Electrophoresis System with Power Supply (PowerPac)	1	2.7
36	Laminar Flow Cabinet	1	1.2
37	Clevenger Unit with 6 Mantle Set	1	1.25
38	Online Double Conversion UPS of 20 KVA Rating (Rack Mounted; UPS and Battery)	3	17.75
39	SSD Storage	1	0.2
40	High Performance Computing (HPC) Clusters (Servers)	1	400
41	Desktop Computers	25	23.5
42	UPS for Desktops	20	3
43	Printers	3	0.85
44	Laptops	3	3
45	Air Conditioners (2.0/1.5 Tons, Split Type/Window Type) with Stabilizers	6	5.95

46	Cell Imaging Station	1	150
47	Circular Dichroism	1	80
48	Vibration-free incubator for protein crystallization	1	12
49	Handheld NIR with license	1	10
50	Upgradation of HPTLC System	1	130
51	Multimode Reader	1	25
52	Auto N Analyzer	1	22
53	Rotary Evaporator	1	15
54	Benchtop centrifuge	1	12
55	Plant Growth Chamber	1	20
56	Rooftop Agro-metrological Weather Station	1	10

(ii) Equipment: Out of CSIR Funded Projects

Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1	Gas Chromatography System	1	CLAIM (Approved Mission Project)	20
2	Polarimeter System	1	CLAIM (Approved Mission Project)	10
3	NanoDrop Microvolume Spectrophotometers	1	Bioresource Project (New Approved Mission Project)	15
4	Spade meter (Chlorophyll meter)	1	Bioresource Project (New Approved Mission Project)	3.5
5	Benchtop Germinator	1	Bioresource Project (New Approved Mission Project)	5
6	Portable Leaf Area Meter	1	Bioresource Project (New Approved Mission Project)	4
7	PCR Machine	1	Bioresource Project (New Approved Mission Project)	5
8	Water Purification System for HPLC and UHPLC	1	PPP240002	10

9	Power Pack, Power Supply unit for Trans-Blot Semi-Dry Electrophoretic Transfer	1	FBR020302	1.5
10	Bead Beater	1	FBR020302	3.5
11	pH and Conductivity Meter	1	HCP-007, Phase-III	0.25
12	Portable Digital soil Moisture Meter	1	HCP-007, Phase-III	0.2
13	Biomass Briquetting Machine	1	HCP-007, Phase-III	18

(iii) Equipment: Out of Externally Funded Projects (EFP)

Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1	Field Distillation Unit (500 kg Capacity)	5	SSP-500	5

C

**FOR NEXT 2-3 FINANCIAL YEARS (2026-29)
(From 01/04/2026 to 31/03/2029)**

C (a)

EQUIPMENT (Major Equipments)

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1	NMR Spectrometer 600 MHz	01	1000
2	Biacore	01	250
3	GC-MS	01	60

C (b)

CONSUMABLES for 3-4 years (2025-2029)

Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (by equipment name)	0.00
2	Chemicals (ex.- Different chemicals like Solvents (ether, hexane, methanol, ethanol, amyl alcohols, acetic acid, acetonitrile, inorganic acids, other organic chemicals, etc.), solid chemicals	1700.00

	(powders / granular chemicals for vast experiments), Biochemical/s, Biochemical kits & enzymes for specialized R&D experiments, Diagnostic kits, Sequencing, Oligonucleotides, essential oils, Molecular biology kits, etc.) as per the need of various diverse kind of experiments.	
3	Other Consumables (ex- Insecticide, 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.) as per the need of various diverse kind of experiments.	2000.00
4	Glass wares (ex- Beakers, flasks, cleverger, tubes, reagent bottles, storage bottles, measuring cylinders, bacterial vials, other glass wares, etc.)	110.00
5	Plastic wares (ex- Micropipettes, pipette tips, flasks, cylinders, beakers, micro-centrifuge tubes, centrifuge tubes, storage boxes, cryo boxes, conical tubes, culture tubes, oak-ridge tubes, tube racks, other plastic wares, etc.)	130.00
6	Toner Cartridges.	30.00
7	Batteries, etc.	50.00
8	Gases (ex- Nitrogen, Helium, CO ₂ , Argon, etc.)	80.00
9	Maintenance/AMC/repairing of existing equipment	250.00
10	Stationery items (ex- Service book, A4 paper, files, file covers, file board, o-Ring files, markers, pen, stamp-pad, carbon papers, staplers & pins, all pins, board pins, etc.)	50.00
11	IT / software-related Items (Name the items required during year)	--
12	Furniture (Executive Chairs, executive tables, visitor chairs, computer tables, Conference Room furniture, HRD Class room furniturs, etc.)	50.00
13	Electric Items (Tube Lights, switches, wires, cables, MCBs, electrical boards, boxes, other electrical items, lamps, etc.)	50.00

Note:

- The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of the Competent Authority.
- The procurement of the chemicals & consumables would be based on the need and ongoing requirement of R&D activities of Lab/Instt.
- The procurement is subject to the fund's availability/release of sufficient grant from CSIR / funding agency.
- The indicated procurement value is an estimate only.

The procurement Plan is updated with the approval of the competent authority.