

**[Name of the Laboratory/Instt/Unit]  
PROCUREMENT PLAN\***

(\*Please read the note given at the end)

<b>A</b>	<b>FOR THE FINANCIAL YEAR 2024-25</b>
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<b>A (a)</b>	<b>EQUIPMENT</b>
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<b>(i)</b>	<b>Equipment: Out of CSIR Infra Grant</b>
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<b>Sr. No.</b>	<b>Name Category of Equipment/ Vehicle Item</b>	<b>Quantity (Nos.)</b>	<b>Approximate Cost (Rs. In Lakhs)</b>
1	Rotavapour with Chiller	1	4.07
2	Water Circulating Chiller	1	1.35
3	Histopathology Tissue processor	1	16.00
4	Hematology analyzer (Veterinary Mode)	1	40.00
5	Embedding Machine	1	12.00
6	Surgical stereozoom microscope with camera	1	8.00
7	Animal euthanasia chamber (02)	1	1.00
8	Multimode Microplate Reader	1	25.00
9	PCR Machine (Dual block temp grad)	1	6.50
10	Deep Freezer (-20 deg C)	1	1.60
11	BOD incubator with shaker	1	1.30
12	Swing-bucket plate rotor for Centrifuge (model HERMLE Z36HK)	1	2.50
13	Fluorescence Upgradation of Existing Nikon microscope	1	6.00
14	Fluorescence Microscope with platform	1	20.00
15	UPS for electrophysiology setup	1	1.00
16	-80°C Freezer	1	8.00
17	Homogenizer	1	2.50
18	pH meter (pH/CON 510 benchtop meter, 110/220VAC)	1	1.00
19	Cryostat	1	22.00
20	Magnetic stirrer (4)	4	4.80
21	MillQ equivalent water production unit for Centralized Utility Services	1	4.00
22	Biostatistical analysis platform	1	4.00
23	Stata Mp 18.0 S/W for GLP data analysis	1	3.00
24	Stata MP 18.0 S/W for non-GLP data basic science, clinical trial and machine learning work	1	3.00
25	CO2 Incubator	15	128.00
26	Refrigerated Centrifuge	1	3.32
27	Water Bath	1	0.44
28	Hot air Oven	1	0.41
29	PH Meter	1	0.24
30	Analytical Balance	1	0.95
31	Multiplate reader (with FL)	1	4.00

32	Desktop	21	17.20
33	Printer	13	3.80
34	Photocopier machine	1	2.20
35	UPS Battery server room	1	4.37
36	Batteries for Centralized UPS	1	40.00
37	Fire Extinguishers	300	28.00
38	Stability Chamber-1	1	75.00
39	Probe sonicator	1	10.00
40	Single Punch Tablet Machine	1	8.00
41	HPLC-HRMS	1	300.00
42	LC-HRMS system	1	250.00
43	CO2 Incubators	15	128.00
44	2U Rack Mountable Server	1	25.00
45	Storage Server	1	20.00
46	Animal cage change station	4	8.00
47	Ultra Low Temperature Deep Freezer	1	8.00
48	Laptop	3	3.00
49	High Through-Put Next Generation In Vivo Small Animal Imaging System With X-Ray	1	530.00
50	Centralized UPS Batteries	1	0.60
51	27U Server Racks	1	0.30
52	Server Power Strips 6 ports	1	0.10
53	Low Noise Digitizer	1	5.00
54	Noise Eliminator		2.50
55	ALA BPS System	1	3.00
56	Automatic Temperatur Controller	1	4.00
57	Multiclamp amplifier	1	5.00
58	AMPI Master-8 Pulse Stimulator	1	3.00
59	pClamp11 dongle	1	5.00
60	Inverted Micsroscope with flourescence + faraday cage + antivibration table	1	32.00
61	Stereozoom Microscope	1	1.87
62	Analytical Balance	1	2.00
63	Dry Bath with standard heting block	1	0.45
64	Liq n2 tank	1	0.75
65	Vertical Dual Midid Gel System	1	0.32
66	Power supply	1	0.86
67	Gel rocker shaker	1	0.43
68	Western Blot Unit	1	0.56
69	Table top Centrifuge	1	0.36
70	Water Purifier	2	0.90
71	Air showers 4 nos.	4	12.00
72	Biomtric door opener	4	1.00
73	CCTV cameras	8	4.00
74	Heavy Duty washing machines	3	6.00
75	SMF Battery	1	1.95
76	Microscope	1	2.50
77	MIC	3	1.50
78	NMR Auto sampler	1	55.18
79	Digital Balance	1	0.20
80	12 Volt battery	1	0.15
81	AEBAS devices	4	1.50
82	Split Ac	1	0.50

83	Rotar evaporator pumps	4	4.00
84	Karl Fisher titrator	1	5.00
85	Volthometer	1	4.98
86	IVC AHU system	1	12.96
87	LC-MS	1	450.00

**(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	Microscope camera	1	MMP075201	8.00
2	Ultra low freezer (-80 degree)	1	MMP075201	8.00
3	Deep freezer (-20 degree)	1	MMP075201	4.00
4	Glove box / Benchtop DNA synthesizer	1	FTT070503	30.30
5	Photodiode array detector for HPLC	1	FTT070503	12.00
6	Rack server with intel Xeon 3.2 GHz processor	1	FTT070503	7.00
7	Refrigerator 400litres	1	FTT070503	0.70
8	CO2 Incubator	1	FBR070303	5.00
9	Stackable refrigerated incubator shaker	1	FBR030307	7.25
10	-20 oC fridge	1	FBR030307	0.75
11	Rotatory Evaporator	1	MMP075201	8.00
12	Deep Freezer	1	MMP075201	1.20
13	Aerosol Chamber	1	AMR Mission	65.00
14	Diffusion Cell Apparatus and syringe pump	1	AMR Mission	10.50

**(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.	Ultra-high-performance liquid chromatography-high-resolution mass spectrometer (LC-MS system) with accessories	1	GAP0003	600.00
2.	Cryo Rack with ventilated system	1	GAP0357	0.32
3.	mPAGE mini wet transfer system	1	GAP0383	0.97
4.	Rotary set (Rotary evaporator, vacuum pump with controller and chiller)	1	GAP0431	12.00
5.	Acoustic detector Spectra Plus SC 2 channel	1	GAP0434	1.85
6.	Needle hydrophone	1	GAP0434	1.60
7.	HEATING MANTLE	1	GAP0440	0.28
8.	Fast Protein Liquid Chromatography (FPLC) system	1	GAP0446	53.00
9.	IVOSII-TOX on Windows 10 Pro (computer assisted reproductive toxicology testing/sperm analysis of rat sperm)	1	GAP0446	70.00
10.	Refrigerated centrifuge machine	1	GAP0446	10.00
11.	Multidetector Microplate Reader	1	GAP0446	14.87
12.	Refrigerated incubator shaker	1	GAP0446	8.50
13.	Scireq - Flexivent Complete System	1	GAP0447	32.00
14.	Scireq-Flexivent	1	GAP0447	32.00
15.	Refrigerated Centrifuge with rotors and adapters	1	GAP0448	10.00

16.	Western Blot Scanner/Imager	1	GAP0448	12.00
17.	Daihan LED Display Orbital Shaking Incubators	1	GAP0448	4.90
18.	Centrifuge with Rotors refrigerated centrifuge	1	GAP0449	7.28
19.	Desktop computers with accessories including, external storage devices, UPS etc.	4	GAP0449	2.00
20.	Storage Freezer (-20°C)	1	GAP0449	0.90
21.	Storage refrigerator (4°C)	2	GAP0449	0.90
22.	Centrifuge with Rotors	1	GAP0449	7.28
23.	Gel Electrophoresis System	1	GAP0449	2.00
24.	Weighing Balance	2	GAP0449	0.71
25.	Magnetics Stirrer	2	GAP0449	0.30
26.	Orbital Shaker	1	GAP0449	0.88
27.	Microplate Washer 96 well plate washer	1	GAP0451	3.98
28.	Liquid Nitrogen tank with accessories For cell storage	1	GAP0451	2.00
29.	Computer workstation	1	GAP0456	3.00
30.	Computer workstation, Miner equipments	1	GAP0456	10.00
31.	Gas Chromatograph	1	GAP0460	18.00
32.	Air Handling Unit for IVCs-AHU	1	GAP0462	8.00
33.	1. Incubator Shaker	1	GAP0448	28.40
34.	Refrigerated Centrifuge	1	GAP0448	
35.	Westem Blot scanner	1	GAP0448	
36.	Liquid Nitrogen tank with accessorie	1	GAP0451	9.97
37.	Microplate washer	1	GAP0451	
38.	Microcentrifuge	1	GAP0451	
39.	Peristaltic pump	1	GAP0452	1.50
40.	4° C Refrigerator (400 litre, double door)	1	GAP0452	
41.	Heating magnetic Stirrer-2	2	GAP0460	18.00
42.	Recirculating chiller-1	1	GAP0460	
43.	Gas chromatography-1	1	GAP0460	
44.	Refrigerator-1	1	GAP0460	
45.	Desktop and printer-1	1	GAP0460	
46.	Power pack for western blotting (X2)@80000 each	1	GAP0463	16.60
47.	Inverted fluorescent microscope with Z stacking	1	GAP0463	
48.	Vacuubrand vacuum pump with controller-1	1	GAP0465	19.90
49.	Recirculating chiller-1	1	GAP0465	
50.	Rotary evaporator full set-1	1	GAP0465	
51.	Refrigerator-1	1	GAP0465	
52.	Laboratory Electric oven-1	1	GAP0465	
53.	Rotary Microtome	1	GAP0466	8.80
54.	pH meter	1	GAP0466	
55.	Micropipettes Set	1	GAP0466	
56.	Bench Top Shaker Incubator	1	GAP0428	9.40
57.	Biophotometer Plus	1	GAP0428	
58.	Spectrophotometer	1	GAP0428	
59.	CO2 Incubator	1	GAP0428	
60.	Protein Gel Running Apparatus	1	GAP0428	
61.	Refrigerated Micro-centrifuge	1	GAP0428	
62.	Recirculating chiller with wheel	1	SSP0242	1.60
63.	Bio-Rad Single Moulded Vertical Electrophoresis system	1	CLP0004	1.90
64.	Optical Inverted Research microscope	1	CLP0006	2.80
65.	Dry bath with standard heating block	1	GAP0383	0.493
66.	MONOKIN BD RTU vertical Electrophoresis 8.5 x12 cm INSITU	1	GAP0383	0.403
67.	Stability Chamber-1	1	MLP0102CP	75.000
68.	Probe sonicator	1	MLP0102CP	10.000
69.	Single Punch Tablet Machine	1	MLP0102CP	8.000
70.	Liq N2 Cryo Tank	1	GAP0474	4.248
71.	Programmable Digital Rocker	1	GAP0474	0.668
72.	Automated DNA/RNA oligonucleotide synthesizer	1	CLP9004	40.00

73.	VERTICAL AUTOCLAVE	1	GAP0423	0.999
74.	Magnetic Stirrer with Hot Plate Heating stirrer	1	GAP0419	0.756
75.	CO2 GAS CYLINDER	2	GAP0446	0.28
76.	UV Transilluminator	1	CLP9004	1.00
77.	Gel Electrophoresis and minor lab equipments	1	CLP9004	2.00
78.				

<b>A (b)</b>	<b>CONSUMABLES</b>
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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 1. NMR 2. Mass 3. Electron Microscopy 4. X Ray 5. Biacore	150.00		50.00	200.00
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	300.00	300.00	600.00	1200.00
3	Other Consumables (ex- Animal Feed, 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, Protease Chemical library, etc.)	500.00	300.00	827.00	1627.00
4	Glass wares (ex- name the different glass wares)	100.00	100.00	200.00	400.00
5	Plastic wares (ex- Name the different plastic wares)	100.00	100.00	200.00	400.00
6	Toner Cartridges.	40.00		2.00	42.00
7	Batteries, etc.	30.00			30.00
8	Gases (ex- tentative names)	30.00		2.00	32.00
9	Maintenance/AMC/repairing of existing equipment	200.00	50.00	15.00	265.00
10	Stationery items (ex- name a few)	45.00	5.00	5.00	55.00
11	IT / software-related Items: Schrodinger Software for Molecular Modelling			8.00	8.00
12	Furniture (Name the items required during year)	25.00			25.00
13	Electric Items (Name the items required during year)				

<b>B</b>	<b>FOR NEXT 2-4 FINANCIAL YEARS (2025-29) (From 01/04/2025 to 31/03/2029)</b>
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<b>B (a)</b>	<b>EQUIPMENT</b>
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Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost
1	LC-MS	1	450.00
2	Confocal based super-resolution microscope	1	300.00
3	Probe sonicator with cup-horn assembly	1	14.00
4	Stereotaxic Instrument for Rats	1	10.00
5	Heidolph Mild Steel Vacuum Pump, Air Tank Capacity 2.03 LITER	1	5.00
6	stereo microscope	1	2.50
7	64 Channel NVR with (10x4) 40 TB raw storage	1	2.25
8	Deep freezer (-20 degree )	1	1.50
9	IR	1	1.48
10	Oil Radiators	1	1.32
11	Hostel CCTV Cameras	1	0.50
12	Microscope	1	15.00
13	Refrigerator Centrifuge	1	8.00
14	Particle Size Analyser	1	84.80
15	Single Quadrupole Mass Detector	1	100.00
16	Ultra Low Temperature Deep Freezer	1	7.00
17	3D Bioprinting for organ, organoid and tissue printing for replacement or reduction of bioactivity profiling in animal models.	1	30.00
18	Camera for fluorescence microscope (Lieca)	1	3.00
19	Inverted Microscope	1	5.00
20	GloMax® Explorer Multimode Microplate Reader	1	30.00
21	High Content Analysis System	1	340.00
22	Anaerobic Incubator Cum Workstation	1	15.00
23	Fluorescence Microscope	1	25.00
24	MS Directed Purification Facility (MSDpF)	1	350.00
25	Refrigerated centrifuge for protein applications	1	18.00
26	Referigerator incubator shaker	1	5.50
27	IVC cage for Malaria work	1	18.00
28	Cage changing station	1	4.00
29	Upgrade of Existing Nikon fluorescent microscope	1	8.50
30	Ice machine	1	7.60
31	IVC cage for Filariasis work	1	18.00
32	Cage changing station for Filariasis work	1	4.00
33	IVC cage for Leishmaniasis work	1	18.00
34	Cage changing station	1	4.00
35	Water cooler with purifier	1	0.75
36	Ice maker machine	1	4.00
37	PCR Machine	1	4.00
38	IVC cage system for metabolic Disorders work	1	18.00
39	qPCR machine for multiple Breast cancer projects (Most essential) There is none in LSN ground floor.	1	15.00
40	-80 Freezer (Present one broken down and not repairable) (Most essential)	1	8.00

41	Multi mode Microplate Reader (There is none in the LSN ground floor)	1	20.00
42	Deep Freezer (-20 degree C)	1	1.60
43	Biosafety cabinet for cell culture	1	8.00
44	Simulated annealing Furnace for Glass Blowing Repairing Work	1	5.00
45	Oxygen Generator	1	10.00
46	Glass /diamond cutter m/c	1	0.60
47	Aluminium alloy rotary vacuum pump	1	2.60
48	Multimode Microplate Reader	1	28.00
49	Hot air gun	1	0.40
50	Refrigerated centrifuge	1	12.00
51	Programmable orbital shaker	1	5.50
52	Biosafety cabinet for cell culture	1	9.00
53	Inverted Fluorescence Microscope	1	25.00
54	Refrigerator	1	1.00
55	Hot-plate Magnetic Stirrer	1	0.25
56	Rotors for Centrifuge	1	0.60
57	qRT-PCR machine	1	20.00
58	Test-tube rotator	1	0.15
59	Water Bath	1	0.25
60	VDRL Shaker	1	0.40
61	UPS for deep freezer (-80C)	1	2.00
62	Hypoxia Chamber	1	3.00
63	Air vibration table	1	2.50
64	Multiclamp 700A amplifier	1	4.75
65	Digidata 1440A Low-noise Data Acquisition System	1	5.00
66	Liquid Nitrogen Cryo Container	1	3.00
67	Chem-Doc	1	35.00
68	Gel Casting Stand & Western Blotting Tank	1	0.50
69	Homogenizer	1	2.50
70	Shaking Rocker	1	1.00
71	Liquid Nitrogen Cryo Container to save stable cell lines	1	6.00
72	CO2 regulators (2pcs)	1	0.25
73	Circulating Water Bath (Julabo)	1	3.00
74	Complete Set-up of Individually Ventilated Cage System	1	35.00
75	Micro-Manipulator along with Inverted Microscope	1	50.00
76	IVOS-II for CASA (including microscopy)	1	70.00
77	Cooling Incubator	1	2.50
78	Semidry Transfer Cell	1	3.00
79	Powerpack	1	1.00
80	Circulating Water Bath	1	2.50
81	Camera and PC for Microscope	1	2.30
82	Autoclave	1	7.00
83	Rotatory shacker	1	0.50
84	-20 degree freezer	1	1.20
85	Ultracentrifuge with rotors	1	65.00
86	Upgradation of of 19-year-old electronics of 300 MHz NMR	1	200.00
87	BOD Incubator	1	1.50
88	Deep Freezer (-20 degree C)	1	1.60
89	UPLC	1	92.00
90	Lyophilizer	1	35.00
91	Microplate reader	1	24.00
92	Spare parts of Rheometer	1	8.00



93	Refrigerated centrifuge	1	7.00
94	pH meter	1	1.20
95	Digital Vortex mixer	1	0.60
96	Western blot assembly	1	3.00
97	-80 degree refrigerator	1	8.00
98	liquid nitrogen tank	1	5.00
99	pH meter	1	1.00
100	Weighing balance	1	3.00
101	UV spectrophotometer	1	7.50
102	Vacuum pump for lyophilizer	1	4.00
103	BSL-2 biosafety cabinet	1	9.00
104	Rocker	1	1.50
105	Refrigerator, 500 L	1	0.70
106	- 20C Deep Freezer	1	2.00
107	Differential Pressure Instrument ( 3 Nos.)	3	0.50
108	Bio safety cabinet	1	4.90
109	CO2 Incubator	1	8.00
110	High speed centrifuge with rotars	1	12.00
111	Sonicator	1	6.00
112	Chemi-Doc	1	25.00
113	Sonicator	1	15.00
114	Nano-Drop	1	15.00
115	High Speed centrifuge	1	25.00
116	Rotaryevaporator	1	5.00
117	Chiller	1	2.50
118	-78 oC reaction bath (Julabo)	1	6.00
119	Vacuum pump for rotaevaporator	1	2.00
120	Water bath	1	2.00
121	Differential Pressure Instrument	1	0.50
122	Gradient PCR machine	1	5.50
123	Multimode plate reader	1	22.00
124	Flow Chemistry instrument	1	20.00
125	Solvent purification system	1	30.00
126	Glove Box	1	40.00
127	Aerosol infection equipment	1	65.00
128	Programmable chiller with ramping, soaking function (Temp range -20 to 150C) and rotavap	1	8.50

<b>B (b)</b>	<b>CONSUMABLES</b>
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Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (by equipment name) 1. NMR 2. Mass 3. Electron Microscopy 4. X Ray 5. Biacore 6. In vivo image analyser	1000.00
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	6000.00
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, Essential oils, Standard aroma molecules, Animal feed, Cell Lines, Agriculture accessories, Protease Chemical library ,etc.)	8027.00
4	Glass wares (ex- name the different glass wares)	2000.00
5	Plastic wares (ex- Name the different plastic wares)	2000.00
6	Toner Cartridges.	210.00
7	Batteries, etc.	150.00
8	Gases (ex- tentative names)	160.00
9	Maintenance/AMC/repairing of existing equipment	1325.00
10	Stationery items (ex- name a few)	275.00
11	IT / software-related Items (Name the items required during year) Schrodinger Software for Molecular Modelling	8.00
12	Furniture (Name the items required during year)	125.00
13	Electric Items (Name the items required during year)	

**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.