

# CSIR- Indian Institute of Chemical Biology

## PROCUREMENT PLAN

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

### A FOR THE FINANCIAL YEAR 2024-25

#### A (a) EQUIPMENT

##### (i) Equipment: Out of CSIR Infra Grant

Sr. No.	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1	Confocal Zeiss LSM980	1	98.700
2	High-end workstations with GPU	4	54.000
3	IVC System (13 Lakhs/System) TRUE	4	52.000
4	Front tray loading freezer dryer	1	29.000
5	Fluorimeter	1	28.000
6	NIR Spectrometer	1	27.700
7	Customized biosafety cabinet to place cell-sorting instrument	1	25.000
8	Cell Disrupter	1	24.500
9	Walk-in plant growth chamber	1	24.000
10	DSC System	1	22.690
11	Cage changing station	5	20.000
12	Passive Avoidance Test for Animal Behaviour Monitoring, Tracking and Analysis System	1	20.000
13	Real time PCR	1	15.000
14	Biosafety Cabinet- 4 feet/ Type-II/ B-2	1	14.160
15	Double-door Horizontal Steam Autoclave	1	14.000
16	minus 80 degree C freezer	1	10.000
17	Power server workstation	1	10.000
18	Network Attached Storage (NAS) Device	1	9.500
19	Nanodrop	1	9.500
20	UV-visible Spectrophotometer	1	9.490
21	High Back chairs and mid back chairs	1	7.800
22	UPS of 20KVA	1	7.200
23	Workstation of BD LSR Fortessa-3 Laser	1	7.080
24	CO2 incubator	1	6.610
25	Desktop Computer	6	5.958
26	Fume hood	1	5.500
27	Ice flaking machine	2	5.000
28	Server	1	5.000
29	Grip Strength Meter	1	5.000
30	Nanodrop spectrophotometer	1	5.000
31	Rota Rod for Mouse	1	4.980
32	Running Wheels Apparatus	1	4.500
33	Radial Maze 8 Arm	1	4.500
34	Workstation for processing cryo-EM data	1	4.320
35	Static Pass Box	1	4.220

36	3 chamber Sociability Test	1	4.000
37	Elevated Plus Maze for Mouse	1	3.500
38	Large Display Signage System	1	3.000
39	Computers / Desktops	1	3.000
40	Wireless Access Points	1	3.000
41	POE+ Managed Network Switch	1	3.000
42	FIRE EXTINGUISHERS	1	2.700
43	Biometric system	1	2.500
44	Laptops	3	4.800
45	Dedicated High End USB Support Video Conferencing Camera including Stand and Remote Controller	2	2.000
46	Small 2 KVA Online UPS System with Battery of backup time 30 minutes	1	2.000
47	a) Video Conferencing including Stand and Remote Controller. b) Video Conferencing Wired Microphone with Additional Mics and 3) Speaker System etc. with all other adapters and cables.	1	2.000
48	4K Supported High Quality Projector with Ceiling Installation Kit	1	2.000
49	Laboratory Weighing Machine With Internal Calibration		1.558
50	Commercial Grade Dishwasher	1	1.500
51	Non POE Managed Switch for LAN Network System	1	1.000
52	Thimble Connection of IVC System	1	0.980
53	Local Biometric System Terminals	1	0.750
54	De humidifier	2	0.750
55	Handhold First-control Pickup Devices	2	0.720
56	Laboratory Vertical Sterilizer With Auto-cut Heater And Pressure Control Device	1	0.679
57	Laboratory Tabletop High Speed Rotary Machine	2	0.605
58	Geysers	6	0.600
59	Trolley for Transportation of cages	2	0.540
60	Rat and Mice Restrainer	4	0.500
61	Library books	1	0.500
62	Refrigerator (-20°C)	1	0.450
63	Voltage stabilizer	2	0.440
64	Washing machine	1	0.400
65	Color Printer/ Scanner	1	0.400
66	Laboratory Tabletop Speed Control Stirring Machine	2	0.395
67	Washing Machine	1	0.350
68	Laboratory Tabletop Touch & Play Mixing Instruments	2	0.279
69	Online UPS	5	0.275
70	Working Bench	1	0.200
71	Induction chamber of mice for Anaesthesia machine	1	0.170

72	Stainless stool	4	0.100
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<b>(ii)</b>	<b>Equipment: Out of CSIR Funded Projects</b>
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Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1	600 MHz NMR	1	PEF	800.000
2	Triple quad mass spectrometer	1	FCP	235.000
3	Triple Quadrupole Liquid Chromatography-Mass Spectrometry System (LC-MS/MS)	1	HCP47	160.000
4	GPU enabled (HPC) with 5 nodes	1	FCP	45.000
5	Prep-HPLC	1	MMP075201	38.000
6	Behavioral Lab	1	FCP	28.000
7	TR-FRET Plate reader	1	MMP075201	35.000
8	Multi-parametric 96well plate reader	1	FCP	27.000
9	CO2 incubators	2	FCP	16.000
10	Refrigerated centrifuge	2	FCP	20.000
11	Microscope	2	FCP	20.000
12	MAX-303 UV instrument with bandpass filters	1	FTT070504	18.000
13	Microplate Reader		MMP075202	16.000
14	Bio Reactor/ Fermenter		MMP075202	15.000
15	Real time PCR	1	FCP	15.000
16	Minor Equipments (Rotary Evaporator, Chiller, High Vacuum Pump and Analytical Semi Micro Balance)		MMP075202	12.500
17	Horizontal Rectangular Autoclave	1	MMP075202	10.000
18	minus 80 degree C freezer	1	FIR070304	10.000
19	Biosafety hood (BSL2)	1	FCP	10.000
20	Refrigerated microcentrifuge	2	FCP	10.000
21	Data center to enable GLP	1	FCP	10.000
22	21CFR11 certified Hematology analyzer	1	FCP	8.200
23	21CFR11 certified Biochemical analyzer	1	FCP	8.000
24	Microtome	1	FCP	7.000
25	-80 Freezers (2 nos.)	2	FCP	7.000
26	GPU based Server node/ workstation	1	FTT070504	7.000
27	Rotary evaporator	1	MMP075201	7.000
28	Centrifuge	1	MMP075202	7.000
29	CO2 Incubator for cell culture	1	FIR070304	7.000
30	Refrigerator	1	MMP075201	5.500
31	Biosafety Cabinet Class II	1	MMP075202	5.500
32	Electroporator	1	MMP075202	5.000
33	-20 Freezers (3 nos.)	3	FCP	5.000
34	Rotary Evaporator system	1	FTT070504	5.000

35	Temperature-controlled Shaker Incubator	1	MMP075201	5.000
36	Stability Chambers	2	MMP075201	5.000
37	Rotary evaporator	1	MMP075201	5.000
38	CO2 incubator	1	MMP075201	5.000
39	BOD incubator Shaker	1	MMP075202	4.000
40	Small Equipments		FCP	3.500
41	Ultrasonic cell homogenizer	1	MMP075202	3.000
42	Refrigerators	3	FCP	3.000
43	Sonicator	1	FTT070504	3.000
44	Themohyrometer	5	FCP	2.000
45	Small Equipment		FTT070504	2.000
46	Magnetic stirrer	3	MMP075201	1.500
47	SDS-PAGE apparatus including running and transfer units	2	FIR070304	1.500
48	Desktop Workstation	1	HCP 50	1.150
49	Small bench top centrifuge	1	FIR070304	1.000
50	Liquid N2 containers	1	FCP	1.000
51	Gel electrophoresis apparatus	1	MMP075201	1.000
52	Interactive Screen	1	HCP101	1.000
53	Temperature-controlled magnetic stirrer	1	MMP075201	0.700
54	Rocker	1	FIR070304	0.500

**(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	Ultracentrifuge	1	GAP 477	39.000
2	Benchtop single cell analyais system	1	GAP483	35.132
3	High End Server	1	GAP472	16.000
4	Chemidoc	1		14.200
5	RT-PCR machine	1	GAP484	13.450
6	Refrigerated Centrifuge	1	GAP459	10.000
7	Electroporation System	1	GAP477	10.000
8	Gell Apparatus with Power Pack+ Refrigerated Centrifuge+ pH Meters+ Shakers+ Pipetes	1	GAP477	9.000
9	Inverted phase contrast microscope	1	GAP486	7.500
10	- 86 degree ultracool deep freezer	1	GAP476	6.500
11	Electroporator	1	GAP350	6.500
12	Pipetman set and pipettor	4 sets	GAP482	6.000
13	Co2 Incubator	1	GAP476	5.000
14	Small inverted microscope	1		5.000
15	Fluorometer for Nucleic Acid and Protein Detection	1	GAP477	3.800
16	Power Blotter	1	GAP477	3.500
17	Ion meter	1	GAP454	2.500
18	Midi-MACS-cell separator	1		2.500
19	Liquid nitrogen tank accs.	1		1.300

20	Nucleofector	1		
21	Horizontal gel electrophoresis apparatus	1	GAP 452	0.500
22	Power supply for Horizontal gel electrophoresis apparatus	1	GAP 452	0.500
23	Laminar Airflow	1	GAP 452	1.520

<b>A (b)</b>	<b>CONSUMABLES</b>
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Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)			
		Out of CSIR Infra	Out of CSIR Funded	Out of Externally	Total (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (Repair, Spare and Consumables for JEOL JMS-700 MASS SPECT, GCMS(QP2020), CHNS/O ANALYZER, Bruker XRD D8 Venture Jeol 400 MHZ NMR, LEICA TCS SPD Confocal, Microscoppe, LTQ Orbitrap XL Mass Spectrometer, LC MS-ESI HRMS, FTIR, BD LSRFortessa- 3 lasers, BD LSRFortessa- 5 lasers, Xfe 24 Sea Horse Instrument, Zeiss Microscope, LSM 800, Zeiss Microscope, LSM 980, 4800 MALDI TOF/TOF, SEM BATTERY, Miseq, IVIS, NMR 600 MHZ (Liquid Helium and Liquid Nitrogen), Old AFM, BLI Octet RED 96e, Affinity Isothermal Titration Calorimeter, Ultra Centrifuge, BD FORTESSA, BD ARIA, HPLC Agilant, FCS, GC Agilent, FCS, -80, RTPCR, Centrifuge , FV10i Confocal System (Olympus), SEM, Nikon make, Ti2)	350.00	75.00	60.00	485.00
2	Chemicals (ex.- Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, Antiboies, catalysts-Pd, ligands, Directing groups, additives, amines, alcohols, acids, halides, nitriles, aldehydes, ketones, esters, amino acids, peptides, aromatic compounds, common salts, oxidizing agents, reducing agents, common dry solvents etc)	250.00	140.00	130.00	520.00

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, Media, Serum, antibiotics, Agriculture accessories, etc.)	70.00	50.00	140.00	260.00
4	Glass wares (ex- glass bottles, conical flasks, glass plates, thin plates, test tubes, funnel, beakers, glass bottles, culture tubes, petri plates etc)	25.00	25.00	33.00	83.00
5	Plastic wares (ex- Plate, Dish, peptite, Micro tips, Reagent reservoir, Gloves, Beaker, Tubes etc)	20.00	19.00	28.00	67.00
6	Toner Cartridges (Cartridges of different types of printers eg 12a, 78A, 88A etc)	2.00	1.50	2.00	5.50
7	Batteries, etc.	0.05	0.05	0.05	0.15
8	Gases (ex- Nitrogen, Helium, Oxygen etc)	20.00	7.00	8.50	35.50
9	Maintenance/AMC/repairing of existing equipment	135.00	5.00	6.00	146.00
10	Stationery items (ex-Printer Papers, Adhesive tapes, Scissors, Pen Markers, Parafilm, staplers, File boards, Four fold files, Stapler, Pins, A4 Paper)	12.00	7.00	9.00	28.00
11	IT / software-related Items (Shrodinger software suite, FlowJo Academic Portal, Biorender, SPSS, Adobe Photoshop, Graphpad Prism, Anti-Virus S/w liscence, OS liscence, Media Converters, Media Switches, HDMI Splitters, Wi-Fi Adapters, Network Switches, Removable USB Storage, UTP Cat6 Cable, RJ 45 Connectors etc.)	150.00	35.00	20.00	205.00
12	Furniture	25.00			25.00
13	Electric Items (Tube lights, UV lights)	6.00	2.00	1.00	9.00

<b>B</b>	<b>FOR NEXT 2-4 FINANCIAL YEARS (2025-29)</b>
	<b>(From 01/04/2025 to 31/03/2029)</b>

<b>B (a)</b>	<b>EQUIPMENT</b>
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Sr. No.	Name of Equipment / Item	Quantity	Approximate Cost
		(Nos.)	(Rs. In Lakhs)

<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 ( <b>Repair, Spare and Consumables for JEOL JMS-700 MASS SPECT, GCMS(QP2020), CHNS/O ANALYZER, Bruker XRD D8 Venture, Jeol 400 MHZ NMR, LEICA TCS SPD Confocal, Microscoppe, LTQ Orbitrap XL Mass Spectrometer, LC MS-ESI HRMS, FTIR, BD LSRFortessa- 3 lasers, BD LSRFortessa- 5 lasers, Xfe 24 Sea Horse Instrument, Zeiss Microscope,LSM 800, Zeiss Microscope,LSM 980, 4800 MALDI TOF/TOF, SEM BATTERY, Miseq, IVIS, NMR 600 MHZ (Liquid Helium and Liquid Nitrogen), Old AFM, BLI Octet RED 96e, Affinity Isothermal Titration Calorimeter, Ultra Centrifuge, BD FORTESSA, BD ARIA, HPLC Agilent, FCS, GC Agilent, FCS, - 80,RTPCR,Centrifuge , FV10i Confocal System (Olympus), SEM, Nikon make, Ti2)</b> )	1455.00
2	<b>Chemicals (ex.- Solvents, Biochemical/s, Biochemical kits &amp; enzymes, Diagnostic kits, Sequencing, Oligonucleotides, Antiboies, catalyts-Pd, ligands, Directing groups, additives, amines, alcohols, acids, halides, nitriles, aldehydes, ketones, esters, amino acids, peptides, aromatic compounds, common salts, oxidizing agents, reducing agents, common dry solvents etc)</b>	1560.00
3	<b>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.)</b>	780.00
4	<b>Glass wares (ex- glass bottles, conical flasks, glass plates, thin plates, test tubes, funnel, beakers, glass bottles, culture tubes, petri plates etc Measuring Cylinders, Beakers, Conical Flask, Glass Bottles)</b>	249.00
5	<b>Plastic wares (ex- Plate, Dish, peptite, Micro tips, Reagent reservoir, Gloves, Beaker, Tubes, PCR Tubes, Falcons, Pipette Tips, Holders, Plastic trays, T25 and T75 culture flasks, 35 mm, 60 mm culture dishes, Chamber slides, 5ml, 10ml, 25 ml pipets, Pipet tips 10 µl, 200µl, 1000 µl without or with filters, companion plates, Inserts with 1 µm pores, Combs for scratch, Filters, syringes, Vacuum tubes, 15 ml and 50 ml sterile conical tubes)</b>	201.00

6	Toner Cartridges ( <b>Cartridges of different types of printers eg 12a, 78A, 88A etc</b> )	16.50
7	Batteries, etc.	0.45
8	Gases ( <b>ex- Nitrogen, Helium, Oxygen etc</b> )	106.50
9	Maintenance/AMC/repairing of existing equipment <b>Cryostat, Refrigerator</b>	438.00
10	Stationery items ( <b>Printer Papers, Adhesive tapes, Scissors, Pen Markers, Parafilm, staplers</b> )	84.00
11	IT / software-related Items ( <b>Shrodinger software suite, FlowJo Academic Portal, Biorender, SPSS, Adobe Photoshop, Graphpad Prism, Anti-Virus S/w liscence, OS liscence, Media Converters, Media Switches, HDMI Splitters, Wi-Fi Adapters, Network Switches, Removable USB Storage, UTP Cat6 Cable, RJ 45 Connectors etc.</b> )	615.00
12	Furniture	75.00
13	Electric Items ( <b>Tube lights, UV lights</b> )	27.00

**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.