



CSIR-Indian Institute of Toxicology Research
Vishvigyan Bhawan, 31, Mahatma Gandhi Marg
Lucknow - 226 001

Additions needed in Equipment Priority List 2023-24 (as of 26.07.2023)

Sl. No.	Name of Equipment	Estimated Cost (INR In lakhs)
67	Vortexer	0.1
68	Vortex mixer	0.15
69	Vortex	0.2
70	pH meter	0.25
71	Vacuum pump	0.35
72	Vacuum pump	0.5
73	Weighing balance	0.5
74	Magnetic stirrer	0.5
75	Shaker	1
76	PCR Workstation	1
77	Analytical Balance	1
78	Magnetic stirrer with hotplate	1
79	-20 Deep Freezer	0.75
80	Stack monitoring kit	1.5
81	Automated western blotting system	2
82	Laminar hood over stereomicroscope	3
83	Vertical tetra gel electrophoresis unit with power supply	3.5
84	Semi-dry Electroblotting System with power supply	5
85	Automated cell counter	5
86	Refrigerated Centrifuge	5
87	CO ₂ incubator	5
88	Picodrop	6
89	Flue gas analyser	6
90	Laminar Hood	6

91	Hot Plate	0.1
92	Microwave Oven	0.25
93	Refrigerator (220 L cap.)	1.0
94	Water sensor system	1.0
95	Automatic Weather Monitoring Device (Wind Monitoring Device)	3.5
96	Real Time Flue Gas Analyzer (Stack Emission Monitoring Device)	6.0
97	Black Carbon Sampler	10.0
98	Lyophilizer	13.5
99	BET Analyzer	20.0
100	Vortex	0.20
101	400 L double door refrigerator	0.80
102	Coagulation analyser	6.0
103	Electrolyte analyser	4.0
104	PCR work station	1.5
105	Biosafety cabinet	5.0
106	Bright field upright microscope	5.0
107	Probe sonicator	5.0
108	Multitube vortexer	2.0
109	Plan Apochromatic objective lens 2x/0.08 WD 6.2 (PLAPON2X)	0.75
110	Acrylic brain matrices: Adult mice and rat, Sagittal, 1mm	1.0
111	Temperature control water bath system	0.5
112	Digital pH meter	0.25
113	Deep freezer cum refrigerator	0.20
114	1KvA UPS (for 3 PCs)	0.18
115	Ice machine	2.25
116	Agarose gel electrophoresis apparatus	1.0
117	Shaker	1.0
118	Vortex	0.2
119	Magnetic stirrer with hot plate	1.0
120	CO2 incubator	5.0

121	Laminar air flow cabinet	5.0
122	Inverted microscope with camera	10.0
123	Paper shredder	0.1
124	HD camera	2.0

Actual procurement depends upon the budgetary allocation from CSIR and funding agencies

Procurement Plan of List of Equipment under P-50 (Institutional Funds)
for the FY 2023-24

Area/ Division: ASSIST / TDIC

Group: Industrial support through technological solutions (IST2S)

Sl.No.	Name of Equipment	Estimated Cost (INR in Lakhs)	Budget Head
	GAP-382		
1.	Digital Hot Plate Magnetic Stirrer	0.4	GAP-382
2.	Digital Analytical Balance	1.6	GAP-382
3.	Multiparameter Analyzer	6.0	GAP-382
	GAP-395		
4.	Fermenter	5.0	GAP-395
5.	HD Monitors/ Workstations	5.0	GAP-395
6.	Rheometer	50.0	GAP-395
	TOTAL	68.0	

Procurement Plan of List of Equipment under GAP-382 Project

Area/ Division: ASSIST / TDIC

Sl.No.	Name of Equipment	Estimated Cost (INR in Lakhs)
1.	Real time hydrocarbon	1.5
2.	Real time mercury sampler	2.0
3.	Ultra-fine PM sampler	2.0
4.	Bacteria and fungi sampler (bioaerosol sampler)	4.0
5.	Deep freezer -80	5.0
6.	Ozone analyser	6.0
7.	Real time CO and CO2 analyser	6.0
8.	Real time SO2 analyser	6.0
9.	Denaturing Gradient Gel Electrophoresis (DGGE) System	7.0
10.	Size Distribution analyzer	8.0
11.	Incubator shaker	10.0
12.	Pilot plant	15.0
13.	Realtime particulate spectrometer (analyzer)	18.0
14.	Electrospinning Coater	50.0
15.	3D Printing Facility & Testing	57.0



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Short-term requirement of equipment under P-50 (2023-24)

Sl. No.	Name of Equipment	Estimated Cost (INR in lakhs)
1.	Vortex (02 nos.)	0.20
2.	Vortex Mixer	0.20
3.	Printer with xerox	0.25
4.	Weighing balance	0.3
5.	Refrigerator (4 degree) [2 nos.]	0.8
6.	Heating Mantle	0.5
7.	Multi position (06 position) heating mantle with Soxhlet assembly	0.5
8.	pH meter	0.5
9.	Rocker shaker	0.7
10.	-20 Deep Freezer - Large	0.75
11.	Double door fridge	0.8
12.	Double door refrigerators	0.8
13.	Desktop computer system	1
14.	Direct Ophthalmoscope	1
15.	Disk top Computer with colour printer (Ink tank)	1
16.	Dry bath	1
17.	Water bath	1
18.	Hot Air Oven [2 nos.]	1
19.	Tissue Homogenizer	1.5
20.	Weighing Balance	1.5
21.	Sonicator (Probe and Water Bath)	1.5
22.	Glove Box	1.5
23.	Analytical Balance	2
24.	Centrifuge	2
25.	Moisture analyser	2

Sl. No.	Name of Equipment	Estimated Cost (INR in lakhs)
26.	Primary Calibrator 4146	2
27.	Large volume refrigerator	2.5
28.	Fume hood assembly	3
29.	Nitrogen Generator	3
30.	Blender	4
31.	Ball Mill	4
32.	Multi-position magnetic hot plate stirrer (with temperature probe)	4
33.	Balance (five digit)	5
34.	CO ₂ incubator	5
35.	Epithelial volt meter	5
36.	Laminar air flow cabinets	5
37.	Centrifugal vacuum dryer	6
38.	Centrifuge	7
39.	BOD incubator	8
40.	Workstations	8
41.	Interactive panels and conference equipment	8
42.	*VITROCELL® Cloud ALI Starter Kit (For exposure to liquid aerosols)	10
43.	Double Beam Spectrophotometer	12
44.	Camera and Fluorescence upgradation of Olympus SZX7 Stereomicroscope	15
45.	Small Animal Behaviour Monitoring System	15
46.	DSC analyser	15
47.	TOC analyser	15
48.	Automated capillary electrophoresis system	16
49.	Refrigerated Centrifuge of different capacity	18
50.	Chemiluminescence Immunoassay Analyzer	20
51.	Compressed Fire Proof Filing System	20
52.	Gel documentation system	20
53.	Glassware washer	20
54.	High end server/workstation	20
55.	Real Time PCR	25
56.	Refrigerated Speed Vacuum	25
57.	Histology Grossing Station	30
58.	Multistage Cascade Impactor	30
59.	HPLC	35
60.	Haematology analyzer	45

Sl. No.	Name of Equipment	Estimated Cost (INR in lakhs)
61.	High Performance Computing Cluster	45
62.	Atomic Absorption Spectrophotometer (AAS)	55
63.	Ultracentrifuge	60
64.	Double door autoclave	100
65.	Confocal Microscope	325
66.	LC-MS/MS	400

Mid-term requirement of equipment under P-50 (2023-25)

Sl. No.	Name of Equipment	Estimated Cost (INR in lakhs)
1.	Analytical balance	2.0
2.	Accelerated stability testing chamber	6.0
3.	Electro Spinning	10.0
4.	Automated Rotary Microtome	15.0
5.	Microinjection Unit: Micropipette puller, Micromanipulator, Pneumatic Picopump with vacuum	17.0
6.	N-FRM samplers for PM10 and PM2.5	18.0
7.	Network service devices	20.0
8.	Advanced imaging system for western blot	20.0
9.	Semen and Sperm Analyzer	20.0
10.	Urine Analyzer	25.0
11.	Automatic Tissue Processor	25.0
12.	Access control devices	30.0
13.	UHPLC with UV and FLD detector	55.0
14.	Gas chromatography-Mass spectrometry	70.0
15.	Inductively Coupled Plasma-Mass Spectrometry with auto sampler	275.0

Long-term requirement of equipment under P-50 (2023-28)

Sl. No.	Name of Equipment	Estimated Cost (INR in lakhs)
1.	Ampoule sealing machine	3.0
2.	Compound Upright Microscope with Image Analyzer	15.0
3.	Upright Microscope	16.0
4.	Tissue Embedding Unit	20.0
5.	Multimode Microplate Reader (UV, Visible, Fluorescence, Chemiluminescence)	25.0
6.	Fluorescence Microscope	30.0
7.	Amersham™ Imager 600	35.0
8.	GC-FID	45.0
9.	NMR 80 MHz (Benchtop)	160.0
10.	GC-MS/MS	275.0

Long-term requirement of Software under recurring budget (2023-2028)

S. No.	Name of the Software
1.	Adobe Acrobat Suite
2.	AIM Density Analysis
3.	Antivirus
4.	BioRender
5.	Case Ultra
6.	Cell Illustrator
7.	Chemcraft
8.	Chem office
9.	Discovery Studio
10.	Doratoon
11.	Endnote
12.	Gauss View
13.	Gaussian Suite
14.	Grammarly
15.	iThenticate
16.	LHASA Suite
17.	Material Studio
18.	Material Studio
19.	MATLAB
20.	Microsoft Office
21.	Origin Suit
22.	Schrodinger Suite
23.	Sigmaplot
24.	Simulation Plus Software Suite
25.	SPSS
26.	Statistica
27.	VLife MDS