

CSIR-Institute of Genomics and Integrative Biology

Mall Road, Delhi - 110007

PROCUREMENT PLAN*

(*Please read the note given at the end)

A	FOR THE FINANCIAL YEAR 2026-27
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A (a)	EQUIPMENT
(i)	Equipment: Out of CSIR Infra Grant

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
1.	Nanodrop	1	5.00
2.	Hypoxia workstation for cell culture	1	60.00
3.	Automated RNA/DNA Extraction Instrument	1	25.00
4.	Computer workstation	10	75.00
5.	Cryostat microtome	1	32.00
6.	Vibrating blade microtome	1	20.00
7.	Rotatory microtome	1	15.00
8.	Inverted epi-Fluorescence microscope with motorized stage and monochrome camera	1	40.00
9.	Nonmotorized Epi Fluorescence Sterero zoom microscope with color camera	1	18.00
10.	Manual binocular stereozoom microscope	2	1.50
11.	Cell culture hood (4ft) + CO2 incubator	2	25.00
12.	Closed epifluorescence imaging system with AI capability and dual camera (color and monochrome)	1	120.00
13.	BOD incubator	2	2.00
14.	CO2 incubators	1	10.00
15.	Bioruptor diagenode sonicator	1	25.00
16.	Microplate reader	1	25.00
17.	Realtime PCR machine	2	40.00
18.	Microwave oven	2	0.20
19.	Mutlipe Animal tracking System for behavioural analysis	1	30.00
20.	Refurbishment of Zebrafish Facility	1	20.00

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
21.	Gel doc with chemiluminscence	1	25.00
22.	Nanodrop	2	20.00
23.	Tabletop Centrifuge with cooling	1	5.00
24.	Ice Machine	2	4.00
25.	Tabletop Centrifuge	2	5.00
26.	Laboratory refrigerators	5	5.00
27.	Liquid nitrogen STORAGE	10	50.00
28.	Minus 20 lab freezers	5	10.00
29.	Minus 80 lab freezers	2	25.00
30.	Water purification system	2	10.00
31.	Desktop	Multiple	10.00
32.	Laptop	Multiple	10.00
33.	Inverted fluorescence microscope	1	25.00
34.	Vacuum Suction pumps	1	1.00
35.	High Resolution Mass Spectrometry System with LC and Other Accessories	1	1500.00
36.	Eye Tracking System	1	60.00
37.	FNIR and Biosignal amplifier system for physiological monitoring	1	60.00
38.	Stackable Refrigerated Incubator Shaker	2	15.00
39.	Floor standing Ultracentrifuge	1	60.00
40.	Gradient Factionator	1	35.00
41.	Workstations	8	50.00
42.	French press	1	30.00
43.	Lyophilizer	1	20.00
44.	Workstations	4	20.00
45.	Miseq	1	150.00
46.	Data Center	1	350.00
47.	Network Security Solutions(Firewall, VPN, antivirus, etc.)	2	150.00
48.	Network Infrastructure(including switches, routers, access points, etc.)	1	500.00
49.	Desktops	10	10.00
50.	Interactive Displays	6	24.00

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
51.	Smart Classroom/training/meeting rooms equipments solutions	6	40.00
52.	UPS 1KVa	10	1.00
53.	Computational Data Storage	2	300.00
54.	Compute nodes/servers	10	400.00
55.	Printers	10	5.00
56.	3500 Dx Genetic Analyser (FDA approved)	1	275.00
57.	HPTLC system	1	40.00
58.	Filter cubes for inverted fluorescence microscope	2	0.50
59.	PCR machine	10	25.00
60.	Liquid nitrogen tank	1	2.00
61.	Table top multifuge with biosafe lids	2	30.00
62.	Double door autoclave	1	15.00
63.	Microplate reader	1	20.00
64.	Pacbio Long read sequencer	1	450.00
65.	Seahorse XF Pro Analyzer/Analyzer	1	200.00
66.	-80 deep freezer	2	20.00
67.	DGX/GPU from NVIDIA for AI capable analysis	1	200.00
68.	Liquid Nitrogen Tank	1	5.00
69.	FACS Aria III (5 laser 18 colour)	1	300.00
70.	Bacterial shaker incubator	1	2.50
71.	Biolayer Interferometry system	1	150.00
72.	High Imaging Workstations	1	8.00
73.	High throughput turbidometric growth analyzer	1	5.00
74.	Inverted Trinocular Epifluorescence Microscope with Imaging system	1	25.00
75.	IVC cage system with air handling unit for transgenic mouse	1	20.00
76.	Non IVC cage system with rack and cages	3	6.00
77.	Air purifier	2	0.50
78.	Computer Screen $\geq$ 32 inch, 180 HZ refresh rate, IPS LED panel	2	0.60
79.	Cryostat Microtome	1	32.00

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
80.	Vibrating blade microtome	1	20.00
81.	Rotatory microtome	1	15.00
82.	Inverted epi-Fluorescence microscope with motorized stage and monochrome camera	1	30.00
83.	Nonmotorized Epi Fluorescence Sterero zoom microscope with color camera	1	18.00
84.	Manual binocular stereo zoom microscope	2	1.50
85.	Cell culture hood (4ft) + CO2 incubator	2	18.00
86.	Closed epifluorescence imaging system with AI capability and dual camera (color and monochrome)	1	120.00
87.	-20 Freezer	1	3.00
88.	Hot air oven	2	1.50
89.	Desktop, Printer, Laptop	Multiple	5.00
90.	High-end Laptop (inclusive of OS, office tools, anti-virus etc.)	2	1.60
91.	High-end tower desktop (inclusive of OS, office tools, anti-virus etc.)	2	0.60
92.	26-32" Full HD Flat LED Monitor	2	0.20
93.	External Hard Drive 5TB 0.10	1	0.10
94.	CO2 gas cylinder regulators	2	0.21
95.	UV Transilluminator	1	1.50
96.	PCR Machine with gradient	2	10.00
97.	Vortex(benchtop) machine	4	1.00
98.	Small microfuge for quick centrifuge	4	1.00
99.	Dryblock for library prep	1	5.00
100.	IVC cage system with air handling unit for transgenic mouse	1	20.00
101.	Micropipette Puller (Needle puller)		31.00
102.	HPLC System	1	85.00
103.	Water purification system	1	0.27
104.	AC for Instrumentation facility	8	6.00
105.	Desktop, Printer, Laptop etc	Multiple	5.00
106.	Liquid Nitrogen tanks along with cryogenic boxes.	2	11.00

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
107.	Fluorescence phase contrast microscope (biobank & stem cell)	2	24.00
108.	Biosafety Cabinet Class II Type A 2	1	10.00
109.	Batch Scanner Printer	2	6.00
110.	Multifunction Machine with Separate Drum, Toner	2	6.00
111.	Gel Imaging and Documentation System for fluorescence, colorimetry and densitometry applications	1	26.00
112.	Transfection system	1	15.00
113.	Individually Ventilated Caging System For Mice	1	30.00
114.	Nonmotorized Epi Fluorescence Sterero zoom microscope with color camera	1	25.00
115.	Closed epifluorescence imaging system with AI capability and dual camera (color and monochrome).	1	150.00
116.	Two Paper Shredder Machine	2	0.49
117.	Desktop & Printer	1+1	1.30
118.	Pedestal Fan	1	0.16
119.	Eye Tracking System	1	17.00
120.	One Weight Machine and Barcode Reader	1+1	0.07
121.	CCD Cameras (COOLED COLOUR CAMERA for microscope)	2	18.00
122.	Desktop	3	3.94
123.	Hemoglobin Tes/ng system (for beta hemoglobinopathies)	As per Requirement	43.00
124.	Liquid Nitrogen container (for long term sample storage)	As per Requirement	5.00
125.	Deep Freezer -20	As per Requirement	2.00
126.	Inverted microscope (for QC of gene edited cells)	As per Requirement	8.00
127.	Stackable Variable –Temperature Incubator –Shaker	3	30.00
128.	GPU server	1	80.00
129.	Multimode Plate Reader	1	25.00
130.	-20 Freezer	2	0.85

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
131.	Nanodrop Instrument	1	8
132.	Behavioural Analysis Software	1	9.00
133.	Refridgerated centrifuge	1	4.50
134.	4 degree fridge	1	1.5
135.	All in one PC	7	8.00
136.	Multi Functional Printer Manchine and Computers	01 and 04	5.00
137.	Steel Almira	1	0.25
138.	Fluorescence Flashlight System (510 - 540nm)	1	0.60
139.	4C fridge	1	0.40
140.	Rocker Shaker	1	0.3
141.	Hand held homogenizer	1	0.25
142.	pH meter	1	0.25
143.	Course Weighing balance	1	0.35
144.	Micropipette with volume lock .2-2ul (X2) 1-10ul (X2)	1	0.50
145.	Laminar airflow	1	1.20
146.	Computer screen 32 inch	1	0.45
147.	Peristaltic pump	1	1.20
148.	Small syringe and ball bearing mode of cell disruptor/homogenizer	1	4.00
149.	liquid Waste Disposal	4	2.00
150.	Laminar Hood	1	8.00
151.	Wasing Machine	1	5.00
152.	Refrigerated centrifuge	1	9.00
153.	Workstations	4	21.00
154.	Franz Diffusion Apparatus	1	2.30
155.	Eight Desktop, One L.E.D Screen, One Big photocopier, Five Black & White Printer, One Color Printer	8,1,1,5,1	11.00
156.	Miseq i100	1	90.00
157.	Laptop	1	1.00
158.	All in One PC	4	3.50
159.	High – End Laptop	1	1.50

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
160.	Display Screen along with accessories	As per Requirement	1.20
161.	Desktop & Printer	1+1	1.00
162.	Vacuum pump	1	0.62
163.	Extracellular Flux Analyzer	1	200.00
164.	Closed epifluorescence imaging system with AI and Dual Camera (Compact Microscope)	1	140.00
165.	Display Screen along laptop, Desktop, Interactive Screen, Video Conferencing systems and associated accessories	As per Requirement	20.00
166.	C - Mount Adaptor	1	0.75
167.	Cold-Light Source LED	4	4.00
168.	LED & Camera	As per Requirement	1.00
169.	Biosafety Cabinet	1	2.80
170.	Air Curtain	2	0.50
171.	Temp/Humidity Sensor	2	0.15
172.	Dehumidifier	2	0.70
173.	Timer	1	0.05
174.	Weighing balance	1	1.25
175.	Incubator	1	3.00
176.	Gel Documentation system	1	10.00
177.	UV Tubes	10	0.05
178.	Printer	1	1.00
179.	Two Printer, Two air purifier, One oil heater, One photocopier machine	2,2,1,1	2.00
180.	CO2 Incubators	12	90.00
181.	Laptop	1	90.00
182.	Network Switch	1	0.25
183.	-20 Freezer	1	1.00
184.	Terumo Spectra Optia apheresis	1	80.00
185.	Digital Photocopier Machine & Colour printer	1+1	1.40

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
186.	Oil Filled Radiator Room Heater	1	0.40
187.	Clip Microphone	3	0.02
188.	Spectral, Multi color, Multi-laser, Flow Cytometer	1	500.00
189.	Automated Hematology Analyzer	1	6.30
190.	Imaging system with FLIM and confocal Capability	1	350.00
191.	Fluorescence stereozoom microscope	1	16.00
192.	Work station and 4K high refresh rate screen	1	2.00
193.	-80 Freezer	1	0.80
194.	Liquid nitrogen tank	1	4.00
195.	High Resolution Mass Spectrometry System with LC and Other Accessories	1	1500.00
196.	Upgradation of BSL3 facility (after 13 -14 years)	1	43.00
197.	CTS Rotea Counterflow Centrifugation System	1	100.00
198.	Hypoxia workstation for cell culture	1	70.00
199.	High-Performance Edge Computing Platform for AI Applications	1	2.50
200.	Akta Start protein purification system	2	17.00
201.	-80 Freezer	1	1.00
202.	-80 Freezer	1	12.00
203.	Refrigerated incubator shaker	2	10.00
204.	Geldoc system	2	10.00
205.	Tabletop refrigerated Centrifuge	1	10.00
206.	Electroporator	1	10.00
207.	Workstation	1	15.00
208.	Automated Clone Picker	2	75.00
209.	Multiwell plate reader	1	30.00
210.	-80 Freezer	1	12.00
211.	Oscilloscope and Signal Generator and patient simulator	1	20.00
212.	Precision Balalnce	1	3.00
213.	Hypoxia workstation for cell culture	1	70.00
214.	Whole body plethysmograph	1	50.00
215.	Workstation laptop	1	2.00

Sr.No	Name of the Instrumnt	Quantity	Estimated Cost (in lakhs)
216.	Workstation laptop	1	2.50
217.	Computer Workstation (Desktop)	1	2.50
218.	Printer	1	0.25
219.	CO2 Incubator	1	10.00
220.	Automated Cell Counter	1	5.00
221.	Liquid Nitrogen Tank	1	4.00
222.	pH Meter	1	0.14
223.	Anaerobic Chamber	1	25.00
224.	Ultracentrifuge	1	75.00
225.	Rotavapour	1	10.00
226.	GPU Workstations	1	20.00
227.	Workstations	3	8.00
228.	4 degree refridgerator	4	1.00
229.	Biosafety Hood	1	15.00
230.	High Performance Desktop	1	2.50
231.	Flow cytometer with sorter	1	180.00
232.	PCR	1	6.00
233.	128 TB NAS storage Solution	1	12.00
234.	Desktop	1	1.00
235.	Multifunction Printer	1	5.00
236.	SSD Card	2	0.25
237.	Headphones	3	0.03
238.	Webcam	3	0.05
239.	Fiber Optic Lighting for Mouse Intubation Kit	1	1.50
240.	SSD Drive	2	0.50
241.	Network Revamp (Active and Passive Component)	Multiple relenvat times	500.00
242.	Mouse Intubation Stand (Includes platform, stand, suture)	1	1.50
TOTAL			15976.9

(ii) Equipment: Out of CSIR Funded Projects				
Sr.No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project	Approximate
1.	Minor Equipment	As per Requirement	HCP0047	04.00
2.	Minor Equipment	As per Requirement	HCP002502	04.50
3.	Minor Equipment	As per Requirement	MMP075203	07.00
4.	Animal cages+ water bottles+ cage racks	As per Requirement	FIR070403	18.00
	Work station computer and 4K resolution screens for image analysis	01		
	Stereo zoom microscope	01		
5.	Cold Centrifuge	01	FBR0704010	05.00
	Pipette set	02 Set		03.50
	Dry Bath	01		01.00
	Water Bath	01		00.50
6.	Work stations	02	FBR0704011	07.00
			Total	50.50

(iii)	Equipment: Out of Externally Funded Projects (EFP)
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Sr.No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project	Approximate
			Number/ Code	Cost (Rs. In Lakhs)
1.	Tecan infinite 200 pro Mplex	1	GAP000291	29.75
2.	Workstation	1	GAP000291	
3.	Table Top Multifuge	1	GAP000295	10.00
4.	Computer Work Station	1	GAP000296	202.50
5.	Desktop Computer	1	GAP000296	
6.	centrifuge	1	GAP000296	
7.	shaker incubator	1	GAP000296	
8.	-80 deepfreezer	1	GAP000296	
9.	MicroElectrode array	1	GAP000296	

10.	Rodents treadmill	1	GAP000296	
11.	Rotarod apparatus	1	GAP000296	
12.	Terotaxic Station/apparatus	1	GAP000296	
13.	Zebrafish Behaviour Recording and Analysis Set Up	1	GAP000299	30.00
14.	PCR Machine	2	GAP000300	6.00
15.	Server (data analysis)	1	GAP000300	50.00
16.	Workstation	2	GAP000300	3.95
17.	Nucleic acid quantitation (Qubit)	1	GAP000300	3.00
18.	Biosafety cabinet	1	GAP000300	2.00
19.	Data storage	2	GAP000300	3.89
20.	Freezer (-80 degree)	1	GAP000300	7.90
21.	Freezer (-20 degree)	1	GAP000300	1.00
22.	Refrigerator (4 degree)	1	GAP000300	0.40
23.	Centrifuge	1	GAP000300	7.80
24.	Mouse IVC cages with cage and air handling unit	1	GAP000303	10.00
25.	Workstation	1	GAP000305	10.00
26.	Weighing Balance	1	GAP0250	1.25
27.	BOD incubator	1	GAP0250	5.00
28.	Microplate reader	1	GAP0250	30.00
29.	Bioprinter	1	GAP0250	25.00
30.	Thermo Scientific Rotea	1	GAP0250	100.00
31.	Cytiva Nanoassembler	1	GAP0250	25.00
32.	10TB Hard Disks	1	GAP0263	6.00
33.	Professional Workstations with RTX Graphics	1	GAP000306	10.00
34.	Flow Cytometer - BD FACSLyric	1	GAP000307	59.96
35.	Refrigerator 4°C, Agarose Gel Electrophoresis, 20°C Freezer	1	GAP000308	3.20
36.	3D Bioprinter	1	GAP000311	23.95
Total				667.55

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. AVITI, Nanopore Reagents and Kits, LCMS/MS Based Antibiotic detection kit and associated chemicals and consumables, Proximity Extension Assay (PEA) technology based Cardiometabolic protein panel detection kits and associated chemicals and consumables, Proximity Extension Assay (PEA) technology based Immune Protein panel detection kit and associated chemicals and consumables etc.)	600.00	769.00	200.00	1569
2.	Animals for R&D (NBSGW Mice, and other animals etc.)	0.00	15.00	25.00	40.00
3.	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	100.00	700.00	600.00	1400
4.	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.)	100.00	100.00	200.00	400

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)
5.	Glass wares (like beakers, conical flaks, jars, distillations sets etc)	4.00	8.00	20.00	32
6.	Plastic wares (ex-microcentrifuge tubes and tips, cryo tubes and boxes, etc)	20.00	65.00	20.00	105
7.	Toner Cartridges	10.00	12.00	4.00	26
8.	Batteries, etc.	2.00	0.50	0.50	3
9.	Gases (Nitrogen, Argon etc)	10.00	2.00	10.00	22
10.	Maintenance/AMC/repairing of existing equipment	600.00	0.00	25.00	625
11.	Stationery items (hard disk, paper, filer papers, parafilm, etc.)	25.00	20.00	20.00	65
12.	IT / software-related Items (Cloud Computing Services, Biorender, Adobe, security Solutions, Operating System etc)	62.00	100.00	20.00	170
13.	Furniture (Chairs, Tables, stools, lab benches etc.)	30.00	0.00	0.00	30
14.	Electric Items (Wires, switch boards, etc)	40	0.00	2.00	42
	Total	1603	1791.5	1146.5	4529

B FOR NEXT 2-4 FINANCIAL YEARS (2027-30) (From 01/04/2027 to 31/03/2030)			
B (a)		EQUIPMENT	
Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
1.	(-80) degree ultra Low Deep Freezer Capacity in liters 800-900L		
2.	1 PB Unified Storage		
3.	120 TB Usable Unified Storage for High Performance Genome Sequencing		
4.	200 Tflops Compute cluster for Data Center		
5.	2100 Bioanalyzer		
6.	2-gel vertical electrophoresis system		
7.	3D bioprinter		
8.	4 Degree Display Freezer		
9.	4 Degree Refrigerator		
10.	4D Nucleofection device for Cells		
11.	6kVa UPS		
12.	-80 Deep Freezer		
13.	96 Well thermal cycler		
14.	Air Conditionar		
15.	Air purifier systems		
16.	All in one AI based fluoresece & brightfiled motorized imaging system		
17.	Animal Imager		
18.	Audio Video System with Hybrid Conference Facility		
19.	Auto MACS pro Separator		
20.	Autoclave Machine		
21.	Automated FPLC System		
22.	Automated High throughput western blotting system		
23.	Automated Plate pipetting solutions		
24.	Automated platform for generating large synthetic nucleic acids		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
25.	Automatic Biomedical Liquid Waste Handler		
26.	AXio Zoom V16 Zeiss Microscope for zebrafish facility		
27.	Bacterial Shaker Incubator		
28.	Barcode Printer		
29.	Battery 12V 7AH smf		
30.	BD Rhapsody Scanner System		
31.	Bench Top Reader Cum array Scanner		
32.	Benchtop Confocal Microscope for BSL-3 Facility		
33.	Benchtop Fluorescent Digital Cell Imager		
34.	Benchtop next-generation sequencing (NGS) platform		
35.	Benchtop Targeted Protein Analysis System		
36.	Benchtop Ultracentrifuge		
37.	Biobanking Freezers		
38.	Biobanking System		
39.	Biooical safety cabinet Class II		
40.	Bio-Rad Horizontal Gel eletrophorisis-MINI-P TET, etc		
41.	Bio-Rad Power Supply		
42.	Biorad TransBlot Turbo Transfer apparatus		
43.	Bioruptor		
44.	Bioruptor Pico Diagenode (Bath Sonicator for Chromation Shearing)		
45.	Biosafety Cabinet		
46.	BioScreen Automated Growth Curve Analysis System		
47.	Biotek Microplate Reader		
48.	Body composition analyzer 3/5 frequency segmental		
49.	Brain Sensing Heads band, etc		
50.	Brushless DC Motor Vortex Mixers		
51.	Buy Back 12 Volt Stationary Value Regulated Lead Acid Batteries		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
52.	Calculator		
53.	Celfrost Front opening Refrigerator		
54.	Celfrost Glassdoor refrigerator		
55.	Cell Counter		
56.	Cell Counter for 1st Floor TC		
57.	Cell Culture Epifluorescent Microscope with Long Term Imaging Attachment		
58.	Cell Imaging System NA		
59.	Cell Processing System for Enrichment of Specific Cell Types		
60.	Cell sorter system		
61.	Cell Western Blot Imaging system		
62.	CellXpert CO2 Incubator Portable cell xpert		
63.	Centre Table		
64.	Centrifuge		
65.	Centrifuge(refrigerated)		
66.	Cheap grade sonicator		
67.	Chemi Doc		
68.	Chemiluminescent Imaging System		
69.	CLC Genomics WB Premium, Static/Desktop License		
70.	Clinical grade cas/vector delivery system		
71.	Clinical grade cell handling/ sorter system		
72.	CO2 Incubator		
73.	CO2 Incubator Stackable		
74.	Co2 Incubator with hypoxia setting		
75.	Co2 Incubator with O2 control		
76.	Coffie Table Alice		
77.	Cole-Parmer Top Opening Semi-Automatic Defrosted Deep Freezer		
78.	Color Printer		
79.	Colour Printer Canon MF746cx standard+2		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
80.	Combined Water Purification System		
81.	Computation and Data Storage		
82.	Computer aided stereotaxy		
83.	Computer Softwares		
84.	Computers		
85.	Confocal Microscope		
86.	Controlled rate freezer		
87.	Cryostat		
88.	Cryostat for Frozen Tissue Sectioning		
89.	Cryostat Microtome		
90.	Dargen Server v4 - Part of HPC Cluster		
91.	Data Storage System		
92.	Data Storage System (NAS)		
93.	Deep Freezer		
94.	Deep Freezer (-20)		
95.	Deep Freezer (-20) Capacity Litres 250-300		
96.	Desktops		
97.	DGX A100		
98.	DGX A100 - part of Computing Cluster (HPC Cluster)		
99.	DGX Servers from Nvidia		
100.	Digital Pathology Scanner		
101.	DLAB Brushless DC motor		
102.	Dome Camera		
103.	Dargen Server		
104.	DRAGEN Server License		
105.	Dry Bath Incubator 1.5ml MCT		
106.	Dry Bath with chilling and heating / Dry Bath with Shaker		
107.	Dual-Gel Vertical Electrophoresis Systems		
108.	DXG A100, 320GB		
109.	Elanpro Upright Freez		
110.	Electrophoresis		
111.	Electronic Weighing Balance		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
112.	Electrophysiology and patch clamp set up		
113.	Electroporation System for large volume transfections		
114.	Elutrap eletrophorsis chamber		
115.	Epifluorescence Microscope		
116.	Eppendrof Centrifuge		
117.	EV charging point		
118.	Executive High Back Chair		
119.	External Hard Disk		
120.	Eye Tracking System		
121.	FACS with cell sorter		
122.	Fast Protein Liquid Chromatography System (FPLC system)		
123.	Femtojet Microinjection system		
124.	Floor Model Superspeed Refrigerated Centrifuge		
125.	Floor Standing High Speed Refrigerated Centrifuge		
126.	Flow Cytometer		
127.	Fluorescence Microplate Reader		
128.	Fluorescence Microscope		
129.	Fluorescence Spectrophotometer		
130.	Fluorescence stereozoom microscope with camera		
131.	Fluorimeter		
132.	FNIR and Biosgnal Acusition Set Up-Human		
133.	For 6KVA Online UPS with Batteries		
134.	Forst Free Industrial Refrigerator		
135.	Freezer		
136.	Freezer(Vertical Upright Frezer)		
137.	Frost Free Industrial Refrigerator		
138.	Gel Documentation System		
139.	Gel Documentation System with Accessories		
140.	Gel electrophoresis assembly for mini Gel/Power supply for gel assembly		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
141.	Gel-Documentation system with chemiluminescence detection capability (Chemi-Doc)		
142.	Gentle MACS dissociator		
143.	GentleMACS Dissociator (Tissue Dissociator)		
144.	Gradient fractionator		
145.	Gradient Maker, Fractionator and Associated Accessories		
146.	Gradient PCR with SDS Page And Transfer Accessories		
147.	Gradient Thermal Cycler		
148.	Green Dispo Saniary Napkins		
149.	GXT-MT+06KVA		
150.	Gyro shaker		
151.	Handheld Homogenizer		
152.	Handheld UV Lamps 6 watt		
153.	Hard disk		
154.	Heating Block		
155.	High Dimensional Flow Cytometer		
156.	High Dimensional flow Cytometry Analyser (BD-LSRII)		
157.	High End Biobank System		
158.	High end FACS		
159.	High End FACS(Fluorescence-Assisted Cell Sorter/Analyzer)Consisting of Fluorescence Assited Cell Sorter with Accessories		
160.	High End Imaging Systems a) Confocal Imaging Systems b) Animal Imaging System		
161.	High Imaging Workstation		
162.	High Performance Computing Facility		
163.	High resolution mass spectrometry system with LC and other accessories		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
164.	High sensitivity mass spectrometry system with LC and other accessories		
165.	High Speed centrifuge		
166.	High Speed Scanner		
167.	High speed spinning disk confocal microscope		
168.	High Temperature Disinfection		
169.	High throughput automated Library Preparation workstation for multiomics application		
170.	High throughput turbidometric growth analyzer		
171.	High-end Liquid handling System		
172.	Highend operating microscope		
173.	Hoverlabs Anaerobic Culture Jar		
174.	HP 204 A Black Cartridge		
175.	HP 400 G4 AIO 23.8 inches i5Intel Core i5-8400		
176.	HP Laser Jet Mfp M233DW Printer with 5 Year Warranty		
177.	HP Laser Jet pro MFP M227		
178.	HP Laserjet Pro MFP 180n		
179.	HP Laserjet pro MFP M227sfdn		
180.	HP OJ Pro 7740 Wide Format Aio Printer		
181.	HPC Storage and Computing Nodes		
182.	Hybridization Incubator		
183.	Hynix 8 GB RAM DDR-3		
184.	Hypoxia workstation		
185.	Ice Making Machine		
186.	i-Fuge (D06) Centrifuge		
187.	Illumina Dragen Server V3 With Illumina Dragen Server V3 and Dragen Cs Lvl1 1year		
188.	In vivo Imaging System		
189.	Incubator shaker (variable temperature) with shaking		
190.	Individually Ventilated Case System (IVCS)		
191.	Induction Cooktop		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
192.	Industrial Refrigerator		
193.	Infinium HTS Starter Kit/Bench top reader cum array scanner for Genome-Analysis iScan System		
194.	Infrared/Mulimode Gel or Blot Scanner		
195.	Insect killer 20 Watt		
196.	Inverted Microscope		
197.	Inverted Trinocular Epifluorescence Microscope		
198.	Inverted Trinocular Epifluorescence Microscope with Imaging system (Biorad Zoe Fluorescence Imaging System for 1st floor TC)		
199.	Inverted Trinocular Epifluorescence Microscope with Imaging system (Invitrogen EVOS 5000 or Axiovert Digital)		
200.	IT Product-- Computing Nodes		
201.	LABMAN 20 Kg Ice Flake Making Machine		
202.	Laboratory Refrigerators		
203.	Laptop		
204.	Large Format Vertical Elctrophoresis unit		
205.	Large Vertical Gel sequencing Appratus		
206.	Laser Doppler Blood Flow meter		
207.	LC/MS Based Mass Spectromrteric System		
208.	LED Digital Orbital Shaker includes a Platform		
209.	Leminar Flow Cabinets		
210.	Licor odyssey IR scanner		
211.	Liquid Handling Systems		
212.	Liquid Nitrogen Cylinder		
213.	Liquid Nitrogen Free Rate Controlled Freezer		
214.	Liquid Nitrogen Storage/Container		
215.	liquid nitrogen tank with sample storage (55 litre)		
216.	LN2 tank		
217.	Logitech Webcam Laptop TFT Monitor		
218.	Low Temperature Laboartory Deep Frezer		
219.	Luminescence Microplate Reader		
220.	Luminex platform		
221.	Lung Oscillometry FOT		
222.	Lyophilizer		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
223.	Macbook		
224.	Magnetic Stirrer		
225.	Maruti Ciaz Sigma SHVS Petrol MT		
226.	Mass Spectrometry		
227.	ME220Focused-ultrasonicator		
228.	Microinjection		
229.	Microinjection system		
230.	Microinjector		
231.	Microplate Multimode Reader		
232.	Microtek 1.0/168 Interactive UPS		
233.	Microtek 10KVA Online UPS with 2 hours backup		
234.	Microtek 4kva Stabilizer Digital Display for (AC/Fridge)		
235.	Microtek UPS System		
236.	Microtome - Leice Cryostat CM1860UV		
237.	Microwave for first floor labs		
238.	Microwave Oven		
239.	Microwave Oven Heating Time Adjustment/Grill Heating Power		
240.	Milli Q Water Purification System		
241.	Mini Beas Beater cingle tube capacity		
242.	Mini Centrifuge		
243.	Mini Centrifuge (High Speed)		
244.	Mini Micro Centrifuge		
245.	Mini P4 Vertical Electrophoresis system with caster and spacer plates		
246.	Mini-P-TET omp Sys/PowerPAC™ Basic Power Supply, etc		
247.	Minor Equipment -- Multifunction Printer		
248.	Miscellaneous items Installation and Commissioning		
249.	MiSeq System		
250.	Monitor		
251.	Monochrome Machine		
252.	Mouse Stereotaxic Instrument		
253.	Multicell(eight) air Colle Peltier Based Temperature dependent UV-vis Spectrophotometer		
254.	Multifunctional with Duplex and DADF		
255.	Multimode plate reader		
256.	Multimode plate reader		
257.	Multiplate Reader		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
258.	Multiple Animal tracking System for behavioural analysis		
259.	Multiplex Assay Platform		
260.	Multiplexing gel documentation Systems for electrophoresis		
261.	Mutliclamp System		
262.	myo-Inositol [2-3H(N)]		
263.	Nanodrop Spectrophotometer		
264.	Nanoparticle Assembler		
265.	Native Resolution		
266.	Network Attached Storage Device		
267.	Network Attached Storage(NAS) Device-40TB		
268.	Neuropathy Analyzer/Vibrotherm		
269.	Next Generation Sequencer		
270.	NGS Instrument		
271.	Non clinical grade cas/vector delivery system		
272.	Non mydiatric fundus camera		
273.	Non-Invasive Skin Health Analysis System with probes for measuring stratum corneum hydration, skin moisture content, skin pigmentation, trans-epidermal water loss, skin visco-elasticity		
274.	Non-Invasive Skin Imaging system (UltraScan and VisioScan) that gives real time imaging of the skin surface, texture and layer distribution		
275.	Nvidia DGX A100 Server		
276.	Oil Heater2400 watt liquid Filled Heater		
277.	Online UPS 600VA		
278.	Orbital Shaking Incubator		
279.	Orbitek Led Display Orbital Shaking Incubators		
280.	Oxygen Enrichment Unit		
281.	PAC, Smartscan Controller		
282.	Pacbio for long read sequencing		
283.	PALM Micro Centrifuge		
284.	PCR thermocycler		
285.	pH Meter		
286.	pH Meter Automatic		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
287.	Pheno-Cycler is an Imaging equipment that allows high throughput spatial imaging of intact tissue samples at single cell resolution		
288.	Phosphorimager		
289.	Photocopier Machine		
290.	Pipette puller: P-2000 needle puller for zebrafish facility		
291.	Plate based Scintillation Counter		
292.	PLT,24 Wil, FB,TCT,W/LID,S,BK, etc		
293.	Portable Bio-Fragment Analyser Feathers		
294.	Portable funduscopy system/Fundus Camera		
295.	Portable Spirometry Device		
296.	PRA 15005 5V/30A Pwer Pack		
297.	Precision weighing balance		
298.	Printers		
299.	Probe Sonicator		
300.	Processor: Intel xeon W-2133 Processor		
301.	Projector		
302.	Proximity extension kit for proteomic applications		
303.	Pulse Field electrophoresis		
304.	Pulse Oximeter		
305.	Quantitative metabolite kits		
306.	Qubit™ 4 Starter Packages, with WiFi, 1 kit		
307.	Radioactive counter+ luminometer.		
308.	Reagent, Controls, Calibrators and Consumables for Biochemicals, different cytokines and immunoassays		
309.	Reciprocal Shaker		
310.	Referigerater		
311.	Refrigerated Micro-centrifuge		
312.	Refrigerated High Speed Centrifuge with Autoclavable Rotor		
313.	Refrigerated Mujltipurpose benchtop Centrifuge		
314.	Refrigerated Super speed Centrifugation System		
315.	Refrigerated Table Top Centrifuge		
316.	Refrigerated-Micro Centrifuge with LCD display		
317.	Refrigerator		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
318.	Refrigerator (2-8 C)		
319.	Refrigerator (Godrej) (EDEGE185CT)		
320.	Refrigerator (Godrej) 220 Ltr		
321.	Refrigerator High Speed Centrifuge With Fixed Anfle and Swing Rotor		
322.	Refurbishment of Zebrafish Facility		
323.	Reverse-phase high performance liquid chromatography (HPLC)		
324.	Right Temp Jr. Warming System		
325.	RO unit		
326.	Rocker Incubator		
327.	Rocker Shaker		
328.	RT PCR Machine		
329.	Scale-out High Performance Data Storage System (NAS)		
330.	Scanner		
331.	Scanning, copying and printing systems		
332.	Scientific Image and Illustration Software		
333.	Scintillation Counter plate reader		
334.	SDS Page with Transfer module and Accessories, etc		
335.	Seahorse analyzer		
336.	Segmental Body Composition Analyzer		
337.	Sequencer		
338.	Sequencing Library Preparation /Microplate Spectrophotometer		
339.	Sequencing Reagents		
340.	Server		
341.	Server and Storage		
342.	Server Storage		
343.	Single Channel Pipettes		
344.	Single Channel Pipettes (2-20ml)		
345.	Single solid door upright freezer		
346.	Sledge Microtome with dry ice tray		
347.	Small Animal Behaviour set up		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
348.	Sonicator		
349.	Spectrophotometer		
350.	Speed Vac Concentrator		
351.	SphygmoCor Zcel PWAPWV		
352.	Spinix Vortex Shaker		
353.	Spinix-Vortex Shaker Tarsons		
354.	Stablizer		
355.	Stackable Variable-tempearture Incubator Shaker (at least 3-Fold)		
356.	Static lab Incubator		
357.	Steam Presses		
358.	Steel stool with footrest		
359.	Stem Cell culture microscope		
360.	Stereomicroscope with Imaging Capability		
361.	Stereotaxy		
362.	Stereotaxy Injector		
363.	Steromicroscope		
364.	Storage Device		
365.	Storage on network (SAN/NAS)		
366.	Storage Server -- DGX A100		
367.	Storge Server		
368.	Super Magnetic plate		
369.	Surgical Dressing Tray		
370.	Table		
371.	Table Top Refrigerated Centrifuge		
372.	Table top refrigerated centrifuge with multiple adaptors (including microtiter plates)with or without biosafe buckets for BSL2+/3 facilities		
373.	Table Top Spin-Centrifuge(Small)		
374.	Tape Station System		
375.	Testo True Gas Analyser		
376.	Thermal Cycler		
377.	Thermo Veriti 96 well Thermal cycler		
378.	Thermoshaker, Dlab Make with Additional heating block		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
379.	Thymol AutoClave		
380.	Tissue homogenizer		
381.	Transient Elastography system		
382.	Transilluminators UV (1)		
383.	Trigar Incubator with Cell Locker System		
384.	Trinocular upright microscope with Camera and Data acquisition unit		
385.	Turbo Transblot System With Power Pack		
386.	TV		
387.	Two Socket Server		
388.	UHPLC System as per Specification mentioned		
389.	Ultra Low Deep Freezer (-80) Degree		
390.	Ultra Low Deep Freezer-Floor Model		
391.	Ultra Sonicator		
392.	Ultracentrifuge		
393.	Ultracentrifuge (Ultrahighspeed centrifuge with temperature and vacuum control).		
394.	Ultracentrifuge Floor Standing Model		
395.	Ultra-High Throughput Next Generation Sequencing Platform		
396.	Ultrasonic bath		
397.	Ultrasonic Cleaner		
398.	Ultrasonic Cleaner sonicator		
399.	Ultrasonic Probe Sonicator-Real time digital display time digital display of parameters- Processing time;		
400.	Ultrasonic sensor based spirometer device		
401.	Ultrasound based bone density system		
402.	Unified Storage System 120 Storage		
403.	Upright Deep Freezer (-20 degree)		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
404.	UPS/ backup		
405.	UV transilluminator		
406.	UV-Vis-NIR Spectrophotometer		
407.	VACUSAFE-Aspiration System/Bottle 4 Litres, etc		
408.	Vacuum Concentrator		
409.	Variable temperature Incubator shaker		
410.	VDRL Shaker(NA) (Indo-VDRLS-150)		
411.	Veriti96-well Thermal Cycler		
412.	Vertical Autoclave		
413.	Vertical Gel Electrophoresis System and Power pack		
414.	Vertical Laboratory Deep Freezer 310-350 liters		
415.	Voltas 250L 2 Star Na Double Door Refrigerator		
416.	Vortex Mirer		
417.	W Rrefrigeraterd Centrifugr with LCD Display		
418.	Wacom Intuos CTL 6100WL		
419.	Water Bath		
420.	Water Bath Chamber Capacity over 14 to 18 Ltrs		
421.	Water Bath Sonicator		
422.	Water Dispenser		
423.	Water High Performance Liquis Choramatorgraphy system		
424.	Water Jacketed CO2 Incubator		
425.	Water Purification system		
426.	Weighing Balance		
427.	Wheel Chair		
428.	Wish Recta 1 Seater		
429.	with Imaging system (Biorad Zoe Fluorescence Imaging System for 1st floor TC)		
430.	Wooden Almirah		
431.	Workstations		
432.	Xcell Gene Pulser (Electroporator)		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
433.	Zebrafish behavioural analysis set up with built in camera and analysis software for multi-animal tracking		
434.	Zeiss Axio Vert A1 Microscope		
435.	High performance cold storage freezers		
436.	Affinity Chromatography Column		
437.	Water Jackted CO2 Incubator		
438.	Network Switches		
439.	Power Backup Facility		
440.	Computer Network Hardware		
441.	Sterile Tube Welder		
442.	Vortexes		
443.	Automated Capillary Genetic Analyzer		
444.	Probeless Ultrasonicator		
445.	GPU Workstations		
446.	High Performance Computing Cluster		
447.	Inverted fluorescence microscope		
448.	Mini vortex		
449.	Laminar Flow Hood and cell counter		
450.	Intrument for label free biomolecular interaction study		
451.	Eye tracker		
452.	HPLC System		
453.	Water purification system		
454.	AC for Instrumentation facility		
455.	Desktop, Printer, Laptop etc		
456.	Liquid Nitrogen tanks along with cryogenic boxes.		
457.	Fluorescence phase contrast microscope (biobank & stem cell)		
458.	Biosafety Cabinet Class II Type A 2		
459.	Batch Scanner Printer		
460.	COOLED COLOUR CAMERA for microscope		
461.	Gel Imaging and Documentation System for fluorescence, colorimetry and densitometry applications		
462.	Transfection system		
463.	Individually Ventilated Caging System For Mice		
464.	Nonmotorized Epi Fluorescence Sterero zoom microscope with color camera		
465.	Closed epifluorescence imaging system with AI capability and dual camera (color and monochrome).		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
466.	Hemoglobin Tes/ng system (for beta hemoglobinopathies)		
467.	Liquid Nitrogen container (for long term sample storage)		
468.	Deep Freezer -20		
469.	Inverted microscope (for QC of gene edited cells)		
470.	Stackable Variable –Temperature Incubator –Shaker		
471.	GPU server		
472.	Multimode Plate Reader		
473.	Miseq i100		
474.	Display Screen		
475.	Washing Machine		
476.	Laminar Hood		
477.	liquid Waste Disposal		
478.	Flow Cytometer - BD FACSLytic		
479.	10TB Hard Disks		
480.	Professional Workstations with RTX Graphics		
481.	Tecan infinite 200 pro Mplex		
482.	Table Top Multifuge		
483.	MicroElectrode array		
484.	Rodents treadmill		
485.	Rotarod apparatus		
486.	Terotaxic Station/apparatus		
487.	Nucleic acid quantitation (Qubit)		
488.	Mouse Intubation Stand (Includes platform, stand, suture)		
489.	Network Revamp (Active and Passive Component)		
490.	Fiber Optic Lighting for Mouse Intubation Kit		
491.	128 TB NAS storage Solution		
492.	Flow cytometer with sorter		
493.	Biosafety Hood		
494.	CTS Rotea Counterflow Centrifugation System		
495.	Hypoxia workstation for cell culture		
496.	Akta Start protein purification system		
497.	Spectral, Multi color, Multi-laser, Flow Cytometer		

Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (In lacs)
498.	Clip Microphone		
499.	Automated Hematology Analyzer		
500.	Imaging system with FLIM and confocal Capability		
501.	Terumo Spectra Optia apheresis		
502.	Thermo Scientific Rotea		
503.	Cytiva Nanoassemblr		

B (b)	CONSUMABLES
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Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (by equipment name eg. Kits for Illumina Sequencer. AVITI, Nanopore Reagents and Kits, LCMS/MS Based Antibiotic detection kit and associated chemicals and consumables, Proximity Extension Assay (PEA) technology based Cardiometabolic protein panel detection kits and associated chemicals and consumables, Proximity Extension Assay (PEA) technology based Immune Protein panel detection kit and associated chemicals and consumables etc.)	8000
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	2000
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.)	400
4	Glass wares (beakers, conical flaks, jars, distillations sets etc)	16
5	Plastic wares (ex- microcentrifuge tubes and tips, cryo tubes and boxes, etc)	200
6	Toner Cartridges.	40
7	Batteries, etc.	08
8	Gases (Nitrogen, Argon etc)	40
9	Maintenance/AMC/repairing of existing equipment	2500
10	Stationery items (hard disk, paper, filer papers, parafilm, etc.)	180
11	IT / software-related Items (Adobe, Network Security Solution including Firewall, MS Office, Operating System)	360

Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)
12	Furniture (Chairs, Tables, stools, lab benches etc)	120
13	Electric Items (Wires, switch boards)	160
	Total	14024

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.