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**List of procurement projections for the next 5 years
(2021-22 to 2025-26).**

Sr. No.	Description of Item	Broad Specification Parameters	Qty	Accounting Unit (Nos/ Kilometers/ Ton...)	Estimated Value of Procurement INR (Lakh)
1.	Micro -CT	High Resolution Invivo microCT Imaging Platform	1	N/A	370
2.	Invivo imaging system	The Vevo LAZR-X	1	N/A	560
3.	NGS System	MiSeq® System	1	N/A	150
4.	NGS Seq System	Nova Seq	1	N/A	600
5.	IVIS	Dual modality imaging system	1	N/A	425
6.	Jess Sole Source	Bench-top footprint	1	N/A	75
7.	Microscope with Neurolucida	MBF Systems Integration Service	1	N/A	80
8.	High Field MRI/MRS Research	BioSpec	1	N/A	1250
9.	High Performance Preclinical Total Body PET and CT	PET/CT Si78	1	N/A	1150
10.	Autoclave, Animal change station, Cage washer and Necropsy table	To be added	1	N/A	50
11.	GC-MS	To be added	1	N/A	180
12.	Air shower entry systems for 1, 2, 3 and 4 persons per cycle	To be added			24
13.	Microdialysis	BASi	1	N/A	70
14.	Automated blood Sampling System	To be added	1	N/A	80

15.	Acoustic startle response	To be added	1	N/A	45
16.	Automated Home Cage Phenotyping	PhenoMaster	1	N/A	65
17.	Behavioral And Cognitive Phenotyping In The Home Cage	IntelliCage	1	N/A	80
18.	Habitest Modular Cages and Mazes	To be added	1	N/A	80
19.	Gait analysis system	CatWalk XT	1	N/A	95
20.	HPLC-ECD	To be added	1	N/A	75
21.	Preclinical deep brain stimulation system	To be added	1	N/A	95
22.	Patch clamp system	To be added	1	N/A	150
23.	Cell sorter system	To be added	1	N/A	65
24.	LC-MS triple cod	To be added	1	N/A	180
25.	IVC cages	To be added	1	N/A	50
26.	High Content Imaging system	The capability to perform most of the in vitro functions for various screening and mechanistic studies	1	N/A	300
27.	Genotoxicity set up	Capability to analyse various Genotoxicity assays such as Micronucleus, COMET, AMES and Chromosomal assays etc	1	N/A	100
28.	Q-TRAP Mass Spectroscopy	Capability to perform global protein analysis via proteomics	1	N/A	400
29.	Incucyte Auto-Imager	Capability image cell functions such as Cell migration, proliferation, wound healing etc	1	N/A	50
30.	Single crystal X-ray Diffractometer	To be added	1	N/A	120
31.	Powder XRD	To be added	1	N/A	260
32.	Dynamic vapor sorption	To be added	1	N/A	150

33.	Thermally Induced Current spectroscopy / Dielectric spectroscopy	To be added	1	N/A	120
34.	NMR 800 MHz with solid state probe	To be added	1	N/A	100
35.	25 L Rotary Evaporator (2 Nos)	To be added	2	N/A	50
36.	Rotary Evaporators (20 Nos) with vacuum pumps & chillers	To be added	20	N/A	160
37.	Parallel synthesizers (4 Nos)	To be added	4	N/A	100
38.	Preparative Flash Chromatographs (5 Nos)	To be added	5	N/A	150
39.	HPLC (5 Nos)	To be added	5	N/A	200
40.	Preparative HPLC (2 Nos)	To be added	2	N/A	100
41.	LC-MS (2 Nos)	To be added	2	N/A	300
42.	Magnetic Stirrers with Heating (100 Nos)	To be added	100	N/A	50
43.	Vacuum pumps (15)	To be added	15	N/A	100
44.	React IR	To be added	1	N/A	50
45.	Raman Spectrometer (1 No)	To be added	1	N/A	25
46.	All glass reactors with stirring, cooling and heating (3 sets)	To be added	3	N/A	300
47.	Syringe pumps (20)	To be added	20	N/A	10
48.	Glove box (2 Nos)	To be added	2	N/A	50
49.	Solvent purification system (4 Nos)	To be added	4	N/A	100
50.	Infrared spectrophotometer (3 Nos)	To be added	3	N/A	60
51.	UV-Visible spectrophotometer (3 nos)	To be added	3	N/A	25
52.	Refrigerators for chemical library (10 Nos)	To be added	10	N/A	50

53.	Chemical storage cabinet (12 Nos)	To be added	12	N/A	50
54.	Solvent storage cabinet (12 Nos)	To be added	12	N/A	50
55.	Fume hoods (12 Nos)	To be added	12	N/A	120
56.	Biosafety cabinets (2 Nos)	To be added	2	N/A	25
57.	Bioreactor (5 L)	5 L	1	Nos	25
58.	Chiral HPLC	To be added	1	N/A	40
59.	Protein purification system (2 Nos)	To be added	2	N/A	60
60.	Probe sonicator (2 nos)	To be added	2	N/A	15
61.	Ultra centrifuge (1 No)	To be added	1	N/A	40
62.	Large capacity floor centrifuge (2 No)	To be added	2	N/A	40
63.	Large capacity benchtop centrifuge (1 No)	To be added	1	N/A	40
64.	Deep freezer (-80C and -20 C) (2 each)	To be added	2	N/A	100
65.	Lyophilizer (2 Nos)	To be added	2	N/A	100
66.	Natural Product Large Scale Extractor	To be added	1	N/A	50
67.	Gel imaging system	To be added	1	N/A	12
68.	Large scale chromatography systems	To be added	1	N/A	25
69.	Continuous flow reactor (semi-preparative & preparative)	To be added	1	N/A	100
70.	Multi mode plate reader (2 Nos)	To be added	2	N/A	60
71.	Water purification systems (2 Nos)	To be added	2	N/A	30
72.	Ice flaker (3 Nos)	To be added	3	N/A	10
73.	Liquid nitrogen plant	To be added	1	N/A	300
74.	BSL-2 Lab Facility	Refrigerator	01	Nos	0.3
75.		Incubator	01	Nos	1
76.		Centrifuge	01	Nos	5

77.		Microscope	01	Nos	3
78.		Hot Air Oven	01	Nos	0.82
79.		Autoclave	01	Nos	1
80.	Transmission Electron Microscope	Resolution: 0.1 nm Magnification: 1000-15,00,000 X	01	Nos	200
81.	Particle Coater	GPCG1.1	01	Nos	100
82.	Firewall	Sophos – XG 550	2 (NIPER campus & hostel)	Numbers	25
83.	Desktops	Dell	200	Numbers	15
84.	Cloud Storage	Private or hybrid cloud	1 TB	TB	10
85.	Server Storage	600 GB	30	Numbers	30
86.	Database Storage	5 TB	5	Numbers	20
87.	HR & Payroll online applications	Custom made	1	Numbers	15
88.	Office automation software	Custom made	1	Numbers	10
89.	UPS for Server room	Delta Power	1	60 KVA	5
90.	Printers	HP	50	Numbers	10
91.	AMC for Servers	Dell	5	Numbers	20
92.	AMC for Printers	HP	50	Numbers	5
93.	AMC for Network devices	Sophos	5	Numbers	20
94.	Custom software applications	Custom made for automating HR, Payroll, Academics, stores	5	Number	20
95.	ERP system	Tally	1	Number	2.5
96.	Communication systems (Phone, Internet etc)	1 – Campus connection, 1- Hostel connection	Need basis	Number	10
97.	Upgrade of network infrastructure	Cisco	50 wifi access points	Number	10
98.	Refrigerator	2-8 dergee, 250 lt	4	Nos	1.6
99.	Laboratory Refrigerator	2-8 dergee, 600 lt	1	Nos	2
100.	Freezer	minus 32 degrees, 400 lt	2	Nos	20

101.	Freezer	minus 80 degrees, 400 lt	2	Nos	30
102.	Air conditioners	2 ton	10	Nos	5
103.	Centrifuge	To be added	2	Nos	15
104.	Refrigerated Centrifuge	To be added	3	Nos	10
105.	Vortex mixer	To be added	3	Nos	5
106.	Ultrasonicator	To be added	3	Nos	1
107.	Nitrogen evaporator	To be added	1	Nos	10
108.	Nitrogen generator	To be added	1	Nos	10
109.	Hydrogen generator	To be added	1	Nos	12
110.	Analytical balance	To be added	2	Nos	15
111.	Microanalytical balance	To be added	2	Nos	25
112.	Precision balance	To be added	3	Nos	6
113.	Hot air Oven	To be added	2	Nos	3
114.	Vaccum hot air oven	To be added	2	Nos	3
115.	Fuming cupboards	To be added	3	Nos	45
116.	Autotitrators	To be added	5	Nos	50
117.	CD spectrometer	To be added	1	Nos	30
118.	Peptide Synthesizer	To be added	1	Nos	90
119.	GCHS with TCD, ECD	To be added	1	Nos	80
120.	UPLC	To be added	5	Nos	500
121.	2D UPLC	To be added	2	Nos	250
122.	HPLC	To be added	5	Nos	250
123.	Preparative HPLC	To be added	1	Nos	150
124.	Super critical fluid chromatograph	To be added	1	Nos	150
125.	Triple Quad mass spectrometer	To be added	1	Nos	300
126.	Orbitrap mass spectrometer	To be added	1	Nos	800
127.	Ion trap mass spectrometer	To be added	1	Nos	200
128.	Capillary electrophoresis	To be added	1	Nos	80

129.	MALDI-ToF mass spectrometer	To be added	1	Nos	400
130.	Single Crystal X-ray Diffractometer	To be added	1	Nos	600
131.	X-ray fluorescence spectrometer	To be added	1	Nos	400
132.	FT Raman Spectrometer	To be added	1	Nos	80
133.	900 MHz NMR Spectrometr	To be added	1	Nos	7000
134.	Computers	To be added	5	Nos	3.5
135.	Printers	To be added	5	Nos	1.5
136.	Laboratory Chairs	To be added	75	Nos	1
137.	Differential Scanning Calorimetry (DSC)	To be added	1	Nos	1
138.	Incubator	To be added	1	Nos	1
139.	Ultra Centrifuge	To be added	1	Nos	1
140.	Rotary evaporator	To be added	1	Nos	5
141.	Lyophilizer	To be added	1	Nos	20
142.	Metal hot plates	To be added	5	Nos	0.5
143.	Photostability chamber	To be added	2	Nos	30
144.	PH Meters	To be added	2	Nos	1
145.	Solid phase extraction	To be added	2	Nos	2
146.	Water purification system	To be added	2	Nos	25
147.	AHU	To be added	1	Nos	120
148.	Shaking waterbath	To be added	2	Nos	1
149.	Biosafety cabinet level 3	To be added	1	Nos	80
150.	RO Systems	To be added	2	Nos	2
151.	CO2 generator	To be added	1	Nos	40
152.	Flash chromatography	To be added	1	Nos	60
153.	UV	To be added	1	Nos	12
154.	FTIR	To be added	1	Nos	20