

**[CSIR-IHBT]
TENTATIVE PROCUREMENT PLAN***

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

A	FOR THE FINANCIAL YEAR 2025-26
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A (a)	EQUIPMENT
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(i)	Equipment: Out of CSIR Infra Grant
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Sr. No.	Name Category of Equipment	Quantity (Nos.)
1.	Workstation computer	1
2.	Workstation with high processibility and storage	1
3.	Wet Blotting System	1
4.	Weighing Balance Capacity 100g-200kg	1
5.	Weighing balance 1mg-5g	1
6.	Water purification system	1
7.	Water Bath (cooling & Heating)	3
8.	Waste Composting Machine	1
9.	VO2 Max. Testing Equipment - 1	1
10.	Video Conferencing system	3
11.	Vacuum packaging Machine (with Nitrogen Flushing)	1
12.	UV-Vis Spectrophotometer	1
13.	UPS	2
14.	UPLC	1
15.	Upgradation of existing isocratic HPLC-Electrochemical Detector System to gradient PDA	1
16.	Upgradation of existing cluster with Four Cluster Nodes	1
17.	Ultra-Sonicator 5L	1

Sr. No.	Name Category of Equipment	Quantity (Nos.)
18.	Ultra-water purification system	2
19.	Tulip grader	1
20.	TLC analyser	1
21.	Tissue culture Growth Chamber	1
22.	Syrup/dry powder cooking industrial mixer machine (50 kg)	1
23.	Stability Chamber	1
24.	Spectrophotometer	2
25.	Speakers/Subwoofers	1
26.	Soxhlet apparatus	1
27.	Soldering Station	2
28.	Soil respiration system	1
29.	Small drone with RGB sensor	1
30.	Small Animal Behavioural Monitoring, Tracking and Analysis System with Accessories	1
31.	Shredder	1
32.	Server computer with accessories for e-Herbarium	1
33.	Semi Dry Electrophoretic Transfer	1
34.	Seed Germinator Chamber	1
35.	Seed Germinator	1
36.	Schrodinger software licence	1
37.	Scanner A3	1
38.	Rotary Evaporator	4
39.	Root Lysimeter	1
40.	Root Growth Monitor	1

Sr. No.	Name Category of Equipment	Quantity (Nos.)
41.	RO water system 250 LPH along with pimp , pipping, tanks , primary filter and other accessories for Type I/II production	2
42.	Remote sensing software upgradation	1
43.	Refrigerated circulating Water bath	1
44.	Refrigerated Centrifuge	2
45.	Real Time PCR	1
46.	Projector Screen	3
47.	Probe Sonicator	1
48.	Printer	2
49.	Precision Weighing Balance	1
50.	Powered wireless speaker with battery backup and accessories	1
51.	Portable Air Quality Monitors with various air pollution sensors	5
52.	Polyhouse for growing Transgenics / genome-edited plants	1
53.	Polyacrylamide and Agarose gel electrophoresis system	1
54.	Plant In Vivo Imaging System	1
55.	Plant growth chamber	3
56.	Pilot Scale Lyophilizer, -80 degree C	1
57.	Photosynthetic Gas Analyzer	1
58.	Pelleting Machine (2kW)	1
59.	PCR machine	3
60.	PCI Wi-Fi Card	5
61.	Online UPS	1
62.	Nitrogen analyzer with digester	1

Sr. No.	Name Category of Equipment	Quantity (Nos.)
63.	Nanodrop	1
64.	Multispectral sensor for drone	1
65.	Multiskan SkyHigh Microplate Spectrophotometer for DNA/RNA/Proteins and Cell cultures (Compatible for nano cuvettes, cuvettes and 96 well plates)	1
66.	Multi-meter	1
67.	Multi-colour laser printer	1
68.	Multi solvent recovery unit cap minimum 50 L to max 200 L along with pump and other accessories	1
69.	Moisture Analyzer	1
70.	Mini Drone Camera	1
71.	Mini centrifuge (table top)	1
72.	Mili Q water purification system	1
73.	Microwave Digester	1
74.	Microvolume spectrophotometer	1
75.	Microtome	1
76.	Microscope	1
77.	Micro-Kjeldahl Apparatus [Nitrogen estimation unit]	1
78.	Micro-Kjeldahl Apparatus	1
79.	Microalgae multicultivator equipment with LED lights and Gas mixing unit	1
80.	Melting point apparatus	1
81.	Materials Studio software	1
82.	Magnetic stirrer	1
83.	Lux meter	1
84.	Lighting incubator	1

Sr. No.	Name Category of Equipment	Quantity (Nos.)
85.	LaserJet Printer	1
86.	Laminar Air Flow	3
87.	Lactate Plus Analyser	1
88.	Lab-scale Cell Homogenizer	1
89.	iPad	1
90.	Industrial scale oven	2
91.	Industrial scale air compressors with air stainless steel storage tanks 500 L	2
92.	Incubator Shaker	6
93.	ICP Suite consisting of Triple Quad ICP MS and ICP OES	1
94.	HPLC system equipped with PDA and ELSD detectors, auto-sampler, degasser and complete accessories including columns	1
95.	HPC workstation	1
96.	Hot Plate	1
97.	Hot Air Oven	3
98.	Horizontal rotatory shaker	1
99.	High-Resolution Accurate Mass Spectrometer (HRAMS) for proteomics and lipidomics studies	1
100.	High End Workstation	3
101.	Hielscher Flow cell for existing Ultrasonicator along with all accessories	1
102.	Hand Held PAM Flourimeter	1
103.	Hand grip dynamometer	2
104.	GPS	2
105.	GPC-MS	1

Sr. No.	Name Category of Equipment	Quantity (Nos.)
106.	Gel Documentation Unit with computer	1
107.	Gel Documentation System	2
108.	GC	1
109.	Fume hood	1
110.	Fully incubated, Temperature controlled Water bath shaker capacity 20-30 liters	1
111.	FT-IR	1
112.	Flash system with ELSD and PDA detector	1
113.	Flame photometer	1
114.	Fixed bed reactor for flow reaction	1
115.	Five station stirrer hot plate	1
116.	ELSD detector for UPLC	1
117.	Electronic Circular Dichroism (ECD) spectrophotometer.	1
118.	Electrocoagulation system with all accessories	1
119.	e-Herbarium	1
120.	Dual Wireless microphones with USB receiver	1
121.	Double Beam UV-VIS Spectrophotometer	2
122.	Digital Orbital Shaker	1
123.	Dehydrator (around 12 tray or 25 kg capacity)	1
124.	Deep refrigerator	1
125.	Deep Freezer (-80 C)	2
126.	Cryo grinder for herbs with accessories	1
127.	Cooling Centrifuge	1
128.	Computer/workstation	1

Sr. No.	Name Category of Equipment	Quantity (Nos.)
129.	Computer Systems	20
130.	Combo wireless hand and pin microphones	4
131.	Columns stainless steel with automatic flow rate controller	1
132.	Cold Plasma Reactor	1
133.	Clinical Chemistry analyzer	1
134.	Clean room vertical laminar air flow	1
135.	Circular Dichroism (CD)- spectrophotometer with Peltier and stopped flow attachments	1
136.	CHNS Analyser	1
137.	Chlorophyll Fluorescence System	1
138.	Centrifuge with swinging bucket rotor	1
139.	Cathode Ray Oscilloscope	1
140.	Camera DSLR	3
141.	Camera	1
142.	Bright field Microscope	1
143.	Body composition analyser	1
144.	Biosafety cabinet class II	1
145.	Bead Beating Grinder	1
146.	Basket type centrifuge, 24" All stainless steel with accessories	1
147.	Back-leg strength dynamometer	2
148.	Baby Boiler for the canning line	1
149.	Automatic Nitrogen Analyser (Including distillation, digestion, scrubber)	2

Sr. No.	Name Category of Equipment	Quantity (Nos.)
150.	Autoclave Stainless Steel (SS)/Hastelloy reactor (50 lit) for hydrogenation/gaseous reaction under high pressure (200 bar) and temperature (250 oC)	1
151.	Autoclave	2
152.	Atomic Absorption Spectrophotometer (AAS)	1
153.	Approx. 10 feet (W)X6 feet (H) LED Screen in S.S. Bhatnagar Auditorium	1
154.	Airlift and stirred tank interchangeable photobioreactor with an operating volume 3 L with LED lighting, cooling with software controls	1
155.	AEBAS Attendance Machines	12
156.	ACs	2
157.	-800C Freezer	1
158.	4K HDMI Transmitter & Receiver	1
159.	4K HDMI Switcher	1
160.	4 Degree Double Door Freezer	1
161.	3D Food Printer	1
162.	Miscellaneous items- pH meter, weighing balance, microwave oven, DSLR mounted digital microscope magnetic stirrer, double door refrigerator, shoe cover dispenser machines, deep freezers 500 L cap., storage barrels, Water bath and computer system etc.	

Note:

- The above tentative procurement plan is dynamic and could be revised as often as may be necessary with the approval of the Competent Authority.
- The procurement is subject to the fund's availability/release of sufficient grant from CSIR.
- The indicated procurement value is an estimate only.

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