TENTATIVE PRIORITY LIST - P 50 EQUIPMENT/INFRA- (FY 2025-26)		
S.No.	Name of the Equipment/s	Quantity (No./Unit)
1	Biochemistry Analyzer (Integrated Clinical Chemistry and Immunoassay Analyzer)	1
2	Next Generation Microfluidics	1
3	Real-Time PCR system (96 and 384 well module) with computer	1
4	Microplate Reader	1
5	Reaction Calorimeter (Ambient and High Pressure System)	1
6	A. FT-IR with *in situ* DRIFT & ATR Cell	1
	B. FT-IR (3 Nos.- specifications may vary based on application)	3
8	BET Surface Area	1
9	Powder X-ray Diffractometer	1
10	GC-HRMS/MS system	1
11	BCU-01 with 4 mm CPMAS probe	1
12	Multi-parameter batch and continuous bioreactor system	1
13	Auto Sulfur analyser	1
14	Ash Fusion Tester	1
15	Cryocooler (immersion cooler for low temp reactions)	1
16	Benchtop TLC-MS system	1
17	Water purification system	1
18	Upgradation of HPTLC	1
19	Pulsed NMR for Solid Fat Compositions	1
20	Deep Freezer(-80 0C freezer)	1
21	-20 °C Laboratory refrigerator	6
22	Ice cube making machine	6

23	UV-Vis-NIR spectrophotometer with Diffuse Reflectance Spectroscopy	1
24	Salt-spray unit	1
25	QUV weathering	1
26	Vacuum Pumps	20
27	Rotary Evaporators	20
28	Chillers	10
29	Magnetic stirrers- with / without Heating system	25
30	All in one PC / Desktop PCs	25
31	Laptops	10
32	Multifunction Printers	10
33	ACs (different type)	20

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TENTATIVE PRIORITY LIST - P 50 EQUIPMENT/INFRA- (FY 2026-27)		
S.No.	Name of the Equipment/s	Quantity (No./Unit)
1	High resolution LC-MS/MS	1
2	High Pressure VLE system with on-line analysis	1
3	In-situ DRIFTS (Diffuse Reflectance Infrared Fourier Transform Spectroscopy)	1
4	1-5 Kg Catalyst preparation units (Driers, Extruders, glass reactors, Low temperature cooling circulators, Furnaces)	1
5	LC-HRMS/MS System for proteomics, metabolomics, and other biochemical studies	1
6	HPLC &HPLC-GPC	1
7	GC-MS single quadrupole systems	1
8	Scanning Electron Microscope	1
9	Refurbishing or Upgradation of Femtosecond Oscillator for existing femtosecond laser set up.	1
10	Insitu- DRIFT analyzer	1
11	CHNS/O analyzer	1
12	ELSD module upgradation for the existing HPLC (DAD equipped)	1
13	Preparative HPLC	1
14	Schrodinger Software *(license for 5 years – 2026-2030)*	1
15	LC-MS/MS	1
16	Kjeldahl Equipment for Nitrogen Estimation	1
17	GC with FID	1
18	GC-MS	1
19	Centrifugal evaporator	1
20	Atomic Force Microscopy (AFM) with Accessories	1

TENTATIVE PRIORITY LIST - P 50 EQUIPMENT/INFRA- (FY 2027-28)		
S.No.	Name of the Equipment/s	Quantity (No./Unit)
1	Micro CT:	1
2	Nanotemper or Biolayer Interferometry	1
3	A. Hastelloy autoclaves (2 Nos.) 500 ml and 1 lt capacities;	2
	B. Inconel autoclave (1 No.) 500 ml capacity.	1
4	On line Mass analyzer	1
5	LC-MS/MS triple quadrupole system	1
6	High resolution MALD-TOF/TOF system with imaging	1
7	Thermo Gravimetric analysis (TGA-MS/IR)	1
8	Dual Carousel Macro Thermogravimetric Analyzer (TGA)	1
12	Circular Dichroism (CD)	1
10	Freeze Dryer	1
11	Oligonucleotide Synthesizer	1
12	UV-vis-DRS (Solid/powder)	1
13	Rotary evaporator with pump and chiller (full set) – 15 nos	15
14	Tensiometer	1
15	Real-time RT-PCR	1
16	Flash chromatography system (6 Nos)	6
17	Shaker with temperature control	1
18	Gravimetric gas and vapor sorption analyser	1

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TENTATIVE PRIORITY LIST - P 50 EQUIPMENT/INFRA- (FY 2028-29)		
S.No.	**Name of the Equipment/s**	**Quantity (No./Unit)**
1	High-Content Screening Station	1
2	Multipurpose membrane pilot plant with RO/NF/UF/MF of 1 m^2 area each with analytical technique	1
3	Customized Continuous High Pressure (Reactive) Distillation Column (1Kg/hr)	1
4	ESR with Low Temperature Cell	1
5	Differential Scanning Calorimeter (DSC) and Modulated DSC	1
6	Liquid Nitrogen Plant	1
7	Parallel Bioreactors (5L *in situ* autoclave)	1
8	FT-IR Spectrometer	1
9	Freeze dryer	1
10	GC-MS/MS	1
11	HPLC (qualitative)	1
12	Spray Drier	1
13	Photoemission Yield Spectroscopy in Air (PYSA)	1
14	Photo reactor	1
15	Rotary evaporator (4 nos.)	4

Note: The list of equipment given is **tentative/indicative** only and does not assure any guarantee for procurement by **CSIR-IICT** in any given Financial Year. The requirement indicated in the List is **subject to change** depending upon availability of fund and research priority of this Institute, which is dynamic and will be reviewed periodically. Equipment mentioned in the Priority List may change and addition/deletion may happen,if required.

The list has been prepared as per mututal agreed discussion during **Collegium** meeting chaired by the Director. Submitted for approval before posting the same in CSIR-IICT website.

Director (for approval pl.) 07 FEB 2025

7.02.25

CoSP