

**List of Equipment for FY 2022-2023 and FY 2023-2024**

<b>Sr. No.</b>	<b>Name</b>
1.	LPCVD & Oxidation Furnace with Dry, Wet Oxidation and Annealing feature
2.	Developer Hood
3.	Optical Microscope (Brightfield + Fluorescence)
4.	Direct Writing Laser Lithography System
5.	Thermal Evaporation System
6.	Non-Contact Optical Surface Profilometer
7.	Nano imprint Lithography System
8.	Atomic Force Microscope (AFM)
9.	Variable Angle Spectroscopic Ellipsometer
10.	Spin Coating/Photoresist Coating Systems
11.	Inductively Coupled Plasma (Reactive Ion Etching) System
12.	E-beam lithography
13.	FE-SEM System
14.	Magnetron Sputtering System
15.	Interference Lithography System
16.	UV lasers
17.	High Power lasers in UV and visible range
18.	Precision motorized translation stage
19.	Wet Etching Hood
20.	Ultra-sonic Cleaner
21.	Magnetic Stirrer with Heater
22.	Hot plate (for 8" substrate)
23.	UPS system
24.	Gas cylinders with regulators, nitrogen guns
25.	Nitrogen generator
26.	Compressed Dry Air generator/plant
27.	Vapour generator

28.	DI water plant
29.	Optical fiber Splicer for speciality fiber
30.	Work Station
31.	Desktop computers along with computer peripherals
32.	Laptop
33.	Optical design software (Zemax, OSLO, Rsoft, Lumerica etc.)
34.	Photoresist and developer (consumable)
35.	Magnetron sputtering targets (consumables)
36.	Optical Fibers (including speciality fibers) and fiber-optic components (consumables)
37.	Opto-mechanical components (consumables)
38.	Silicon wafers and glass wafers as lithography substrate (consumables)
39.	High Purity grade solvents (consumables)
40.	Clean room consumables (Nitrile gloves, Sticky Mats, Cleanroom compatible gown etc.)
41.	Rack Servers
42.	Networking switches
43.	NAS
44.	Dynamic/Fatigue Testing Machine
45.	Solar/Sun Simulator
46.	Upgradation of Mimics Innovation Suite software from version 21 to version 25 (consumables)
47.	X-Ray tubes 30-50 kV, with compatible high voltage power supply units
48.	X-Ray Fluorescence detectors (Si-PIN detector with high DQE)
49.	Polarize Microscope with hot stage
50.	Narrow line width laser
51.	Coherent Optical Receiver
52.	Booster EDFA
53.	Lock-In-Amplifier
54.	Optical Sources (such as OLED, DMD, LCOS, Micro-LED etc) for next-generation display units
55.	Electron Beam Lithography system
56.	Solid Works Software
57.	Vector Network Analyzer ( upto 18GHz)
58.	Analytical micro Balances/ ultra micro balances (0.001mg/0.0001mg/0.00001mg)

59.	External Micrometer (100 to 200 mm and 300 to 400 mm)
60.	High End SMD rework station
61.	High End PCB inspection system
62.	Controlled Temperature Electric oven upto 200 degree C
63.	Precision Drilling Machine
64.	Portable Spot Welding Machine
65.	Desktop Computers
66.	Thermal Infrared Camera
67.	Lock-In amplifier; Low Noise Amplifier
68.	Semimetals Crystals (PtSe <sub>2</sub> , TiTe <sub>2</sub> , PtTe <sub>2</sub> ) High Resistive Silicon Wafers, SOI wafers, Glass Wafers. Vacuum Desiccators and sample holders Chemical and Shipley's Photoresists. Sputtering Targets (Au, Cr, Ti.)
69.	Photometer, Light meter, Lux meter, Lumen meter, power meter etc.
70.	Instrument for measurement and characterization of displays in terms of Candela/sq. m. / foot-lamberts/nits etc.
71.	Vacuum Pump
72.	UV Curing Chamber, UV Curing Lamp etc.
73.	Controlled temperature electric oven, Digital weighing balance, Ultrasonic cleaning machine etc.
74.	Optical Design & Simulation Software etc.
75.	Other miscellaneous optical components
76.	Upgradation of Gonio-Spectrophotometer
77.	Online UPS
78.	Benchtop Scanning Electron Microscope
79.	Spectrophotometer (UV-Vis, IR)
80.	Interferometer
81.	Computer Workstations
82.	Digital Light Modulation Device
83.	Laser (High Power Single Longitudinal Mode Laser)
84.	Optical Isolators

85.	Laser Shutter
86.	Laser Power Meter with Sensor
87.	Computational Platform
88.	Motorized Precision Translation Stages
89.	High Resolution Translational Stage and its Controller