



**Institution of Eminence Cell  
Indian Institute of Technology Bombay**

**Advanced Nano Fabrication and Characterization**

**Facilities Currently Available**

Sr. no.	Items	Contact Person	Department
1	RIE	Prof.Saurabh V. Lodha	Electrical Engg.
2	Profilometer, Calibration Standard, Stylus, LIS 3, 12.5um, STYLUS, LIS 3, 0.2um, Low Force Measurement Capability, Extended warranty for two years	Prof.Saurabh V. Lodha	Electrical Engg.
3	Plasma asher	Prof.Saurabh V. Lodha	Electrical Engg.
4	High throughput E-beam Lithography	Prof.Saurabh V. Lodha	Electrical Engg.
5	Multi-material Atomic Layer Deposition, Additional Precursor Lines, Additional Plasma gas lines (2), Low Vapor Pressure Deposition, High Concentration Ozone, Reactor Analysis Ports Upgrade, Load Lock Automated, Woollam ISE Ellipsometer, In-Situ Quartz Crystal, crystals, Parts Kit (ALD System), Substrate Bias, On-site System, Vapor trap, Turbo pump, Dry rotary pump, Matching network for plasma, Water flow switch, Precursor cylinders, low vapor pressure deposition, OES attachment, Substrate holder	Prof.Saurabh V. Lodha	Electrical Engg.

6	PLATE-CHANNEL,ASSY-PCB,ASSY-IONIZER,ASSY-FIL,KIT-ANODE,ASSY-NEUT,GASKET-CU,GASKET-2VCR,GASKET-CU,KIT-GASKET,GASKET RET ASSY,GASKET RET ASSY,FILTER-OIL MIST,FILTER-EXHAUST,ROUGH PUMP-OIL,ROUGH PUMP OIL,OIL RSVR,GASKET-CU,ASSY-FIL,CRYSTAL PHOTOTUBE,TIP-SCINTILLATOR,LEIPS- OPT FILTER,LEIPS- OPT FILTER-BLOCK,LEIPS- OPT FILTER-SINGLE,LEIPS- STORAGE BOX,INTRO GAUGE	Prof.Saurabh V. Lodha	Electrical Engg.
7	Laser Writer	Prof.Saurabh V. Lodha	Electrical Engg.
8	Aberration corrected cryo HRTEM	Prof.Jayesh Bellare	Chemical Engg.
9	Standalone Rapid Thermal Processing	Prof.Swaroop Ganguly	Electrical Engg.
10	RF NOISE SURVEY at site	Prof.S Chandramouli	Chemistry
11	Add-on components of AFM/NSOM	Prof.Dinesh Kabra	Physics
12	Add-on components for existing TCSPC....	Prof.Dinesh Kabra	Physics
13	Dell Desktop	Prof.Dinesh Kabra	Physics
<b>Following Facilities are being Commissioned</b>			
1	XPS upgrades,Image registration software,Electronic Rack	Prof.Saurabh V. Lodha	Electrical Engg.
2	Deep Reactive Ion Etching System(DRIE)	Prof.Saurabh V. Lodha	Electrical Engg.
3	Dual Chamber Sputter System	Prof.Saurabh V. Lodha	Electrical Engg.
4	Glove box with integrated thermal....	Prof.Dinesh Kabra	Physics
5	Electrochemical STM,Extended warranty for 3 years	Prof.Dinesh Kabra	Physics