



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

RIFC: Round 2

Facilities Currently Available

Sr. no.	Items	Contact Person	Department
1	TA & FSRS Spectrometer	Prof.Dipanshu Bansal	Mechanical Engg
2	Ansys Multiphysics Campus Solution	Prof.Sharad Bhartiya	Chemical Engg
3	Integrated IR Atomic Force Microscope	Prof.Anindya Dutta	Chemistry
4	Analytical Ultra Centrifuge,Accessories	Prof.Ashutosh Kumar	Biosciences and Bioengineering
5	Particle Size Analyzer	Prof.Sudarshan Kumar	Aerospace Engg
6	Field Emission Scanning Electron	Prof.K S Das Gupta	Physics
7	Benchtop Stylus Profilometer	Prof.K S Das Gupta	Physics
8	CASS,AMC for 3years	Prof.A. Chakraborty	Environmental Science and Engineering
9	Polymer Processing facility	Prof.Jayesh Bellare	Chemical Engg
10	cryofree 9 tesla superconducting magnet,Water Chiller and UPS	Prof.Avinash V. Mahajan	Physics
11	NMR spectrometer for solids	Prof.Avinash V. Mahajan	Physics
12	Raman spectrometer with high-temperature, UPS, Vibration isolation table,Heating Stage for Raman spectrometer,Dry cabinet	Prof.Dipanshu Bansal	Mechanical Engg
13	Raman spectrometer with high-temperature, UPS, Vibration isolation table,Heating Stage for Raman spectrometer,Dry cabinet	Prof.Dipanshu Bansal	Mechanical Engg
14	Closed-cycle cryostat (10 to 325 K) with, Temperature controller,Water chiller,Mounting stand for cryostat,Vacuum gauge,Turbo pump	Prof.Dipanshu Bansal	Mechanical Engg

15	Closed-cycle cryostat (10 to 325 K) with, Temperature controller,Water chiller,Mounting stand for cryostat,Vacuum gauge,Turbo pump	Prof.Dipanshu Bansal	Mechanical Engg
16	Reflected light differential.....	Prof.K S Das Gupta	Physics
17	Source and Measure Unit (SMU),Signal Source Analyzer,Benchtop Signal Analyzer,EMI Shielding Unit for RF probe station	Prof.M S Baghini	Electrical Engg
18	Cubic Immersive Virtual Reality System	Prof.P. Vedagiri	Civil Engg
19	Thermic Probe System	Prof.M S Baghini	Electrical Engg
20	Drill press	Prof.Vikram Vishal	Earth Sciences
21	Helium Porosimeter	Prof.Vikram Vishal	Earth Sciences
22	Multiphase relative permeameter	Prof.Vikram Vishal	Earth Sciences
23	Trim saw with end face grinder	Prof.Vikram Vishal	Earth Sciences
24	Core saturator	Prof.Vikram Vishal	Earth Sciences
25	HT- confocal laser scanning microscope,Microscope base,Objective lenses,Objective lenses,Objective lenses,Objective lenses,Vacuum unit,Tube furnace getter,Water chilling circulator for cooling,vibration isolator,Power transformers,Infrared halogen lamp,Sample holder,Sample holder,Crucible,Crucible,Crucible,Upper view window quartz plate,Parttion quartz plate,Packing & O-Ring Set,Warranty extension Fee	Prof.Deepoo Kumar	Metallurgical Engineering and Materials Science
26	Photon Counting spectrofluorimeter	Prof.Anindya Dutta	Chemistry
27	Gas Chromatography Mass Spectrometry Sys	Prof.Anindya Dutta	Chemistry
28	Semi Preparative HPLC System	Prof.Anindya Dutta	Chemistry
29	DLS & Zeta Potential Measuring System	Prof.Anindya Dutta	Chemistry
30	Microwave Synthesis System	Prof.Anindya Dutta	Chemistry
31	ATR FTIR Spectrophotometer	Prof.Anindya Dutta	Chemistry
32	Microbalance System	Prof.Anindya Dutta	Chemistry
33	High Purity Nitrogen Gas Generator	Prof.Anindya Dutta	Chemistry
34	Melting Point Apparatus	Prof.Anindya Dutta	Chemistry
35	External pattern generating system.....	Prof.K S Das Gupta	Physics
36	Laser Raman Confocal Imaging Spectroscop	Prof.Sakthi Chinnasamy	Earth Sciences
37	Cryo-EM system,Data storage Unit and Data Processing un,Additional Warranty for 6 - 10 Years	Prof.Ruchi Anand	Chemistry
38	Constant-rate-strain (CRS) Thermal	Prof.Prasenjit Basu	Civil Engg

39	Power Device Characterization System (PD,Rack Mount Kit,Medium Power Source/Monitor Unit Module,High Voltage Source Monitor Unit,Medium Current Source Monitor Unit,Multi Frequency Capacitance,Ground Unit Cable,High Voltage Source Monitor Unit,HV Plug Connector Panel Mount,SHV Cable,Ultra High Current Prober System Cable,High Voltage Bias-Tee,High Voltage Bias-Tee-STD,Protection adapter,HV Triaxial to SHV,Ultra High Current Expander / Fixture,Ultra High Current Expander -001,Universal R-Box,Thermocouple,High Voltage Source Monitor Unit,On-Wafer Gate Charge Measurement Adapter,Probe System,POWER HANDLING (CHUCK),Complete kit,Test equipment interface,Mount for parameter analyser module,Test Equipment Interface plate,VIBRATION ISOLATED PLATFORM,DIGITAL Camera with monitor,RF positioners, tips and cables,ON-SITE INSTALLATION AND TRAINING,Extended warranty	Prof.Saurabh V. Lodha	Electrical Engg
40	Thermal Conductivity/Diffusivity Measure	Prof.Titas Dasgupta	Metallurgical Engineering and Materials Science
41	Scanning Electron Microscope (SEM)	Prof.K Narasimhan	Metallurgical Engineering and Materials Science
42	Beam routing optics for Raman Spectro	Prof.Dipanshu Bansal	Mechanical Engg
43	UPS	Prof.Dipanshu Bansal	Mechanical Engg
44	Cleanroom for Electron beam lithography	Prof.K S Das Gupta	Physics
45	Optical power and energy meter console,High-resolution thermal power sensor,Broadband hollow retroreflector	Prof.Dipanshu Bansal	Mechanical Engg
46	Origin Dehumidifier	Prof.Dipanshu Bansal	Mechanical Engg
47	point of use panel(P1-300b/P2-200b)	Prof.Vikram Vishal	Earth Sciences
48	Femtosecond Laser Workstation	Prof.Deepak Marla	Mechanical Engg
49	Dell Optiplex 5090MT Desktop	Prof.Titas Dasgupta	Metallurgical Engineering and Materials Science
50	Refrigerated air dryer model SA-25-D,25	Prof.Jayesh Bellare	Chemical Engg
51	Uniline Online UPS	Prof.Titas Dasgupta	Metallurgical Engineering and Materials Science
52	Desktop PC,Printer	Prof.Prasenjit Basu	Civil Engg
53	EMPTY LIQUID NITROGEN CONTAINER-96170019,LIQUID NITROGEN FUNNEL	Prof.Titas Dasgupta	Metallurgical Engineering and Materials Science
54	Plasma Asher	Prof.K S Das Gupta	Physics
55	ARGON GAS CYL-S	Prof.Titas Dasgupta	Metallurgical Engineering and Materials Science
56	Nitrogen Gas Cyl-S	Prof.Titas Dasgupta	Metallurgical Engineering and Materials Science
57	De-ionised water system	Prof.K S Das Gupta	Physics
58	Benchtop Recirculating chiller	Prof.Avinash V. Mahajan	Physics
59	Screws for Polymer Granular Mixer-Dryer	Prof.Jayesh Bellare	Chemical Engg

60	Polymer Granule Mixer-Dryer	Prof.Jayesh Bellare	Chemical Engg
61	Cyl helium 47 Ltr,Cyl Argon 47 Ltr,Gas: Helium UHP 99.999%,Gas: Argon UHP 99.999%	Prof.Deepoo Kumar	Metallurgical Engineering and Materials Science
62	40 KVA ONLINE UPS	Prof.Avinash V. Mahajan	Physics
63	Batterybank for 40KAVA Online UPS	Prof.Avinash V. Mahajan	Physics
64	Automatic Spin Coating System,Advanced Vacuum pump,Delrin Substrate Holder,Delrin Substrate Holder,Delrin Substrate Holder,Delrin Substrate Holder,Delrin Substrate Holder	Prof.K S Das Gupta	Physics
65	Data storage Unit and Data Processing un	Prof.Ruchi Anand	Chemistry
66	TLC Mass Spectrometer	Prof.Suvarn S. Kulkarni	Chemistry
Following Facilities are being Commissioned			
1	ECVT Multiphase flow system,AMC for ECVT Multiphase flow system	Prof.Atul Srivastava	Mechanical Engg
2	Direct Shear and Triaxial System	Prof.Ashish Juneja	Civil Engg
3	Field Emission Gun Sc,AMC for Field Emission Gun Sc	Prof.Jahnvi Punekar	Earth Sciences
4	200 amu RGA (with RS-232 cable & softwar,Built-in power module for AC line operat	Prof.Srinivasan R.	Chemistry
5	UV-VIS- NIR with Diffuse Spectrometer	Prof.Anindya Dutta	Chemistry
6	Copper Gaskets 2.75" Flange Pack of 10,FLANGE CLAMP ASSEMBLY,FLANGE CLAMP ASSEMBLY,Hex Head Bolt,Tee ISOKF NW16 Flanges,Zero Length Reducer 4.50" x 2.75",Zero Length Reducer 2.75" x 1.33",Nipple Full, 2.75" OD Del Seal Flange,Cross, 4Way, 4.50"x 2.75",Cross, 4Way, 1.33" Del Seal Flange,Flange 1.33" Blank,Flange 1.33 x .25", Tapped,Reducing Adapter, 2.75" OD Del Seal x IS,Socket Head Screw, 832 x075"" Long,,Hex Head Bolt,,Copper Gaskets, 1.33" Flange Pack of 10,Unbraided Hose, NW16, 36" Long, Medium,Unbraided Hose, NW25, 36" Long,,Unbraided Hose, NW16, 24" Long,Unbraided Hose, NW25, 24"Long,	Prof.Srinivasan R.	Chemistry

7	DEMOLITION & DISMANTLING,CIVIL WORKS - GENERAL,CIVIL WORKS- TILING & STONE FINISH WORKS,STEEL/ FABRICATION WORKS,ALUMINIUM & GLASS Works,GYPSUM SHEETS, FALSE CEILING & POP WORKS,CARPENTRY (Window, Door, Partitions),CARPENTRY FURNITURE,PAINTING, Polishing & Finishes,FURNISHING,PLUMBING,GAS SUPPLY,ELECTRICAL WORK,HVAC WORK,DUCTABLE UNITS,HIWALL BOQ,BIOMETRIC,HVAC ASSETS,MODULER ASSETS	ESTATE Dept.	Estate
8	Turbo Molecular Pump	Prof.Srinivasan R.	Chemistry
9	Oxygen Partial Pressure Measurement Syst	Prof.Deepoo Kumar	Metallurgical Engineering and Materials Science
10	PRESSURE TRANS 0-30PSIA, 10V .05	Prof.Srinivasan R.	Chemistry
11	Unheated manometer, 15-pin	Prof.Srinivasan R.	Chemistry
12	Universal electric actuator	Prof.Srinivasan R.	Chemistry
13	Electron multiplier (EM)	Prof.Srinivasan R.	Chemistry
14	Potentiometric Titrator	Prof.Srinivasan R.	Chemistry
15	Argon-47 Ltrs,Helium-47 Ltrs	Prof.Deepoo Kumar	Metallurgical Engineering and Materials Science
16	All-metal angle valve,Handwheel For all,Copper gasket	Prof.Srinivasan R.	Chemistry
17	UPS,Battery,Wheel Trolley,Input and Output of AC wire	Prof.Prasenjit Basu	Civil Engg
18	Field Cancellation System	MATERIAL MANGT DIV	MMD
19	External Oil Lubricated Reciprocating Co	Prof.Suvarn S. Kulkarni	Chemistry
20	Stainless Steel 1-Piece 40 Series 7-Way	Prof.Srinivasan R.	Chemistry
21	All-metal angle valve,,Handwheel For allmetal,Copper gasket,	Prof.Srinivasan R.	Chemistry
22	Stainless Steel 1-Piece 40 Series 7-Way,Stainless Steel Swagelok Tube,SS Integral Bonnet Needle Valve,Stainless Steel Pipe Fitting	Prof.Srinivasan R.	Chemistry
23	PRESSURE TRANS 0-30PSIA, 10V .05	Prof.Srinivasan R.	Chemistry
24	Helium Process (Binary) Gas Analyzer	Prof.Dipanshu Bansal	Mechanical Engg
25	Architect fees for Krios Talos Lab	DESIGN CELL WORKS	Design Cell
26	PRESSURE TRANS 0-30PSIA, 10V .05	Prof.Srinivasan R.	Chemistry
27	Helium SL	Prof.Dipanshu Bansal	Mechanical Engg
28	Custom crane with chain pully block	Prof.Dipanshu Bansal	Mechanical Engg