

List of Principal Collaborators for CRS project proposals

S. No.	Name	Centre	Specialization	Facility
1.	Archana Lakhani	Indore	Condensed Matter Physics, Low Temperature Physics, Imaging techniques	Low temperature and High Field Magnetisation.
2.	Arvind Yogi	Indore	Crystal growth	Optical floating zone crystal growth - 4-Mirror (IR-Image)
3.	D. K. Shukla	Indore	Multiferroics, Piezoelectricity, Thermoelectricity, Strongly correlated electron systems, Synchrotron based X-ray scattering and diffraction methods, X-ray absorption spectroscopy	d33 meter, thermoelectric power measurement, low and high resistance measurements, dielectric spectroscopy
4.	D. M. Phase	Indore	Synchrotron beamline design, thin films, bilayers and multilayers, low and high energy implantation, surface and interface physics, vacuum technology	Beamline for photoelectron spectroscopy at Indus-1 and Polarised light Soft X-ray absorption spectroscopy on Indus-II, PLD and SEM-EDX
5.	Devendra Kumar	Indore	Condensed Matter Physics, Low Temperature Physics	Magnetization measurements by PPMS and MPMS, AC susceptibility setup.
6.	Dileep Kumar Gupta	Indore	Condensed Matter Physics, magnetic ultra-thin films and multilayers	In-situ MOKE set up
7.	G. S. Okram	Indore	Low Temperature Thermoelectricity	DC electrical resistivity and thermoelectric power set up (5-300K).
8.	Mukul Gupta	Indore	Thin films deposition, study of surface, interfaces and depth profiling in thin film multilayers, X-ray absorption spectroscopy.	Polarized light soft XAS beamline at Indus-2 SR; Thin film deposition using sputtering (IBS, dc/rf, HiPIMS), XRD, SIMS & UHV-RTA
9.	N.P. Lalla	Indore	Structural characterisation of materials using XRD and TEM, s, phase transformation, quasicrystals and perovskites	TEM facility, Powder XRD facility (with low-temperature-90K and high-temperature-1400K attachments), LTHM XRD
10.	P. Saravanan	Indore	Electronics and communications Cryogenics	Cryogenic Facilities and Instrumentation

11.	R. Rawat	Indore	Magneto-transport and magnetocaloric and microscopic properties of magnetic materials at low temperature.	Resistivity/magnetoresistance set up (1.5-325 K, 0-8 Tesla), heat capacity set up (3-300 K, 0-8 Tesla), Low temperature high field scanning probe microscope (5-300 K, 0-9 Tesla)
12.	R.J. Choudhary	Indore	Thin Films, Pulsed Laser Deposition, Functional Magnetic Materials	PLD, SQUID-VSM
13.	R. Venkatesh	Indore	Low temperature electric and magnetic transport in Nano/Bulk materials	
14.	Rajamani Raghunathan	Indore	Condensed Matter Theory	
15.	S. R. Barman	Indore	Surface electronic structure	Photoemission and low energy electron diffraction (LEED) experimental station
16.	U. P. Deshpande	Indore	Optical properties, X-ray photoelectron spectroscopy, metal oxide nanomaterials	UV-VIS spectrometer, FTIR spectrometer, X-ray photoelectron spectroscopy.
17.	V. G. Sathe	Indore	X-ray and neutron diffraction, EXAFS spectroscopy, Raman spectroscopy and nano-materials	Raman spectrometer
18.	V. Raghavendra Reddy	Indore	Experimental condensed matter physics	Mössbauer Spectroscopy, thin film x-ray diffraction, MOKE, Ferroelectric loop tracer
19.	G.M. Bhalerao	Kalpakkam	Nanomaterials, electron and x-ray crystallography techniques	Transmission Electron Microscope, IRFZ Single Crystal Growth Furnace, Microhardness tester, Ball Indentation, Small Punch Creep System
20.	Shamima Hussain	Kalpakkam	Thin Film Synthesis and characterisations, Nanomaterials, Photoluminescence, Condensed Matter Physics, Semiconducting behaviour of thin films of III-V, II-VI, Transition Metal Dichalcogenides, Polymers, Functional materials.	Material synthesis facilities, X-ray Photoelectron Spectroscopy, Field Emission Scanning Electron Microscope, e-beam evaporation system, High Energy Ball Milling System, Focussed Ion Beam Scanning Electron Microscope, Box Furnace Sample preparation

				for Microscopy (SEM), Chemical Synthesis facilities
21.	Sujoy Chakravorty	Kalpakkam	Thin film Deposition and Characterization using X-Ray and Neutrons, Atomic Diffusion in Thin Films, magnetic and transport properties of thin films and nanomaterials, d0 magnetism, magnetic semiconductor	D8 Bruker XRD, Atomic Force Microscope, 15T Magnetoresistance system, 7T Squid Magnetometer dc & rf sputtering system, Hot Isostatic Press, Hybrid Optical Trap Array (HOTA), High Vacuum Annealing Furnace
22.	Dr.K Sarvanan	Kalpakkam	Ion beam modification and studies	200 kV ion accelerator, Nuclear Magnetic Resonance, Arc Melting System, Melt Spinning System, Chemical Depth Profiler
23.	A. Chakraborty	Kolkata	Radiation biology	Fluorescent microscope, ultra centrifuge, electrophoresis set up, ultra freezer, CO ₂ -incubator, Flow Cytometer
24.	A. Saha	Kolkata	Radiation Chemistry, Macromolecular chemistry	Luminiscence Spectrometer, FTIR spectrometer, Radio-chemistry, micro –Raman, Calorimetry, DLS, UV-VIS-NIR
25.	Goutam Pramanik	Kolkata	Nano-materials	
26.	R. Raut	Kolkata	Experimental Nuclear Structure	Indian National Gamma Array
27.	Rajib Mondal	Kolkata	Experimental Condensed Matter Physics	Magnetism and electrical transport in Single Crystals
28.	S. S. Ghugre	Kolkata	In-beam gamma ray spectroscopy, nuclear physics	Clover array, radiation detectors and associated nuclear instrumentation, computational laboratory
29.	Souvik Chatterjee	Kolkata	Magnetic investigation of 3d transition metal based intermetallic alloys, phase separated manganites and iron-based superconductors.	High Magnetic and Low Temperature facility, X Ray Diffraction
30.	T. K. Mishra	Kolkata	Mechanical engineer, heat and mass transfer simulations	Mechanical workshop, vacuum systems

31.	G. Ghosh	Mumbai	Soft matter and nanomaterials	Static and dynamic light scattering
32.	P.D. Babu	Mumbai	Magnetism and magnetic materials, Chemical and Magnetic structures	Focusing Crystal Powder Neutron Diffractometer (FCD), Vibrating Sample Magnetometer (VSM)
33.	S. Rayaprol	Mumbai	Structure-property correlations in quasi 1D spin-chain systems, novel mixed oxide compounds	FCD, VSM, Material Synthesis lab
34.	S.K. Deshpande	Mumbai	Dielectric and X-ray characterization of materials	Broadband Dielectric Spectroscopy and X-ray diffractometer
35.	Som Datta Kaushik	Mumbai	Magnetic Materials and magnetic structures	FCD, Cryocooler, Material synthesis
36.	Sudip Mukherjee	Mumbai	Strongly correlated electron systems, Nanomagnetism, Impedance spectroscopy	Low temperature resistivity, Material synthesis