

Aryabhatta Centre for Nanoscience and Nanotechnology

Scientific Research Equipment

1. Automatic pH and Conductivity meter
(Make: Mettler Toledo AG, Switzerland)



3. Microprocessor based High-
Temperature Furnace
(Temperature range: upto 1800°C)
(Make: Nabertherm, Germany)



6. Scanning Electron Microscope
(Make: Carl Zeiss Microscopy
Ltd., UK)'



9. FTIR spectrophotometer
(PerkinElmer, UK)
(Make: PerkinElmer, UK)



2. Water cooled bench top grinding
machine (Planetary ball mill type)



(Make: Retsch, Germany)



4. Dynamic Light Scattering
Particle Size cum Zeta Potential
Analyser (Make: Micromeritics
Instruments Corp., USA)



5. X-Ray Diffractometer with
temperature (lq. N2 - 1200°C)
variation facility
(Make: Bruker, Germany)



7. Digital Refractometer with
temperature variation facility
(Make: Mettler Toledo AG,
Switzerland)



8. UV-Vis-NIR spectrophotometer
with temperature variation facility
(Make: PerkinElmer, UK)



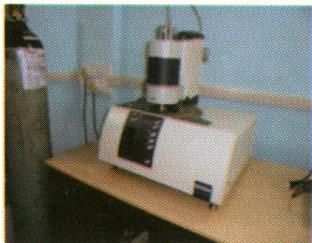
10. Photoluminescence
measurement system with
temperature variation facility
(Make: PerkinElmer, UK)



11-13. Atomic Force Microscope cum
Scanning Tunnelling Microscope
(Make: NT-MDT, Ireland)



14. High Temperature (lq. N₂ - 1600°C) Simultaneous TG-DTA / DSC Analyser (Make: NETZSCH Technologies, Germany)



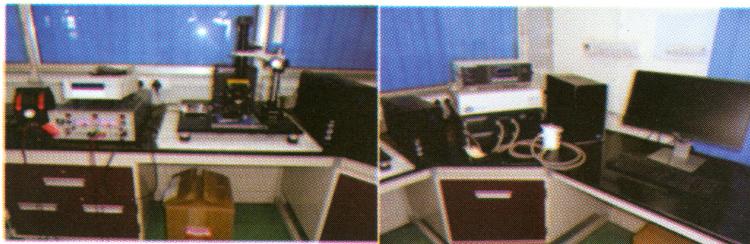
15. High Precision Dilatometer (NETZSCH Technologies, Germany) (Make: NETZSCH Technologies, Germany)



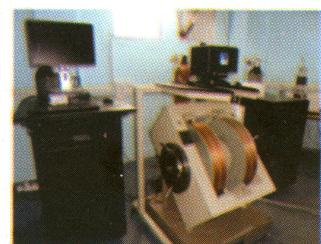
16. Impedance Analyser (40 Hz – 110 MHz) with temperature (up to 1000°C) variation facility. (Make: Keysight Technologies, USA)



17. Precision Multiferroic Test System (P-E, piezoelectric, pyroelectric, magneto-electric for bulk and thin-films) with temperature variation facility (Make: Radiant Technologies Inc., USA)



18. Vibrating Sample Magnetometer with temperature variation facility (Make: **Lake Shore Cryotronics, Inc., USA**)



19. Nanoparticle Tracking Analysis system (Make: Malvern Instruments, UK)



20-21. Micro Twin Screw Extruder and Micro-Injection Moulding Machine(Germany)



22. Microwave assisted Hydrothermal technique for nanomaterial synthesis (Milestone, Italy)

