

Nanotechnology

Over the past few years, nanotechnology has evolved as a frontier area of research with potential commercial / industrial applications. The research activities at IndianOil R&D are focused on adoption of nano-additive systems in different product platforms related to fuels, lubricants and catalysts to achieve superior performance characteristics such as friction & wear protection and higher catalyst efficiency. Facilities for synthesis of active nano-materials at bench / pilot scale and specialised characterisation & evaluation techniques of various nano-materials and additives have been set up.

MAJOR FACILITIES:

- Planetary ball mill
- Confocal Dispersive Micro Raman Spectrometer
- Thermal diffusivity measuring apparatus
- Interfacial Rheometer
- Surface area analyser