

# INORGANIC & PHYSICAL CHEMISTRY



Transmission Electron Microscope



- Navin Fluorine Ltd, Mumbai
- Solaris Chem Tech Ltd.,
- United Phosphorous Ltd., Mumbai

## INFRASTRUCTURE

- Infrared spectrophotometer (FT-IR)
- Atomic absorption spectrophotometer
- ESCA XPS (KRATOS)
- High Pressure differential scanning calorimeter
- TGA/SDTA

- Differential scanning calorimeter
- Particle size analyzer
- Thermal mechanical analyzer
- Automatic grain crushing strength tester
- Transmission Electron Microscopy
- Scanning Electron Microscopy
- BET Surface Area Analyser (Multi point)
- Potentiostat/Galvanised system
- Parallel synthesizer with online HPLC

## CONTACT PERSON (Technical)

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## VISION AND GOAL

Development of new generation enviro catalysts and modified process technologies (green) to replace conventional processes of industrial importance.

## CORE COMPETENCIES AND ACTIVITIES

- Catalysis and catalyst development
- Green technologies for bulk organics and drugs
- Advanced materials for strategic and commercial applications



## CURRENT RESEARCH AREAS

- Molecular and homogenous catalysis
- Base catalysis
- Supra molecules
- Enzyme mimics
- Molecular imprinting / recognition
- Catalyst structure activity
- Nano systems



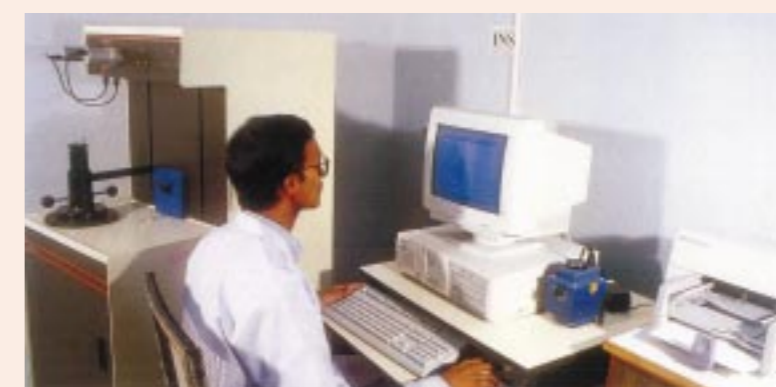
Kratos ESCA

(Model: Axis 165)

- Design and synthesis of smart materials
- Ceramic composites
- Photo chemistry for materials
- Coated speciality papers
- Catalysis for petrochemicals and organic intermediates
- Zeolite based catalysts for organics
- Catalysis for energy / waste management

## MAJOR CLIENTS

- Vasant Chemicals Ltd, Hyderabad
- HOCL, Mumbai
- Vinati Organics Ltd, Mumbai
- Excel Industries Ltd, Mumbai
- Deepak Nitrates Ltd, Pune
- Anu Laboratories Ltd, Hyderabad
- SMS Pharmaceuticals Ltd, Hyderabad
- Neuland Laboratories Ltd. Hyderabad
- SRF Limited, New Delhi



Mercury penetration Porosimeter

(Model: Autopore III 9410, Micromeritics, USA)