

CENTRE FOR NANOMATERIALS (CNM)

FACILITIES

PROCESSING



Flame spray pyrolysis



RF Induction Plasma Unit



High Energy Ball Mill



Vacuum/Hydrogen Furnace
(2000°C; Gas Quenching)



Inert gas atomizer



Spark Plasma Sintering System



NanoSpider for nanofibers



Spray Pyrolysis deposition



Hot Press (1050°C; under Hydrogen)

CHARACTERIZATION

- X-ray photoelectron spectroscopy
- Micro-Raman spectroscopy
- BET Surface Area Analyser
- C-S analyzer
- Gas chromatography
- Battery Testing Unit
- Photoelectrochemical testing Unit
- UV-Visible Spectrophotometer

TECHNOLOGY PARTNERS

- Aerogel One, Ltd, Vapi
- BHEL R&D, Hyd
- Bimetal Bearings Ltd., Chennai
- Capri Cables Pvt Ltd Hyd
- Clemson University, USA
- DMRL, DRDO, Hyd
- DRDL, DRDO, Hyd
- General Motors, USA
- Global Hospital, R&D, Hyd
- HPCL, R&D, Bangalore
- Hulikkal, Coimbatore
- IGCAR, Kalpakkam
- Inst. of Plasma Res., Gandhinagar
- NFC, Hyd
- Redsons Eng Hyd

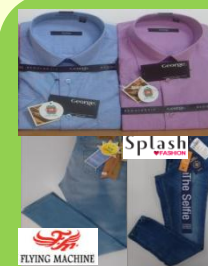
- Resil Chemicals Pvt. Ltd., Bangalore
- SF Complex, Jagdalpur
- Zoz GmbH, Germany

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TDB National Award 2016 for indigenous technology commercialization of nano Ag based antibacterial textiles

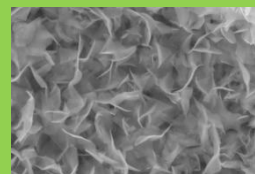
RECENT PRODUCTS



Antibacterial and self cleaning textiles



Aerogel sheet For thermal insulation



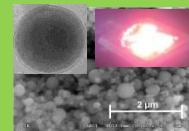
Lubricant WS2 sheets



Li ion battery electrode material



ODS steel turbine blade



Nano Al Propellant additive



Nano ZnO based electrical varistor



Cutting tool insert



Clutch cookie



Nano fiber based air filter

