



INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS (ARCI)

(An autonomous R&D Centre of Department of Science and Technology, Govt. of India)

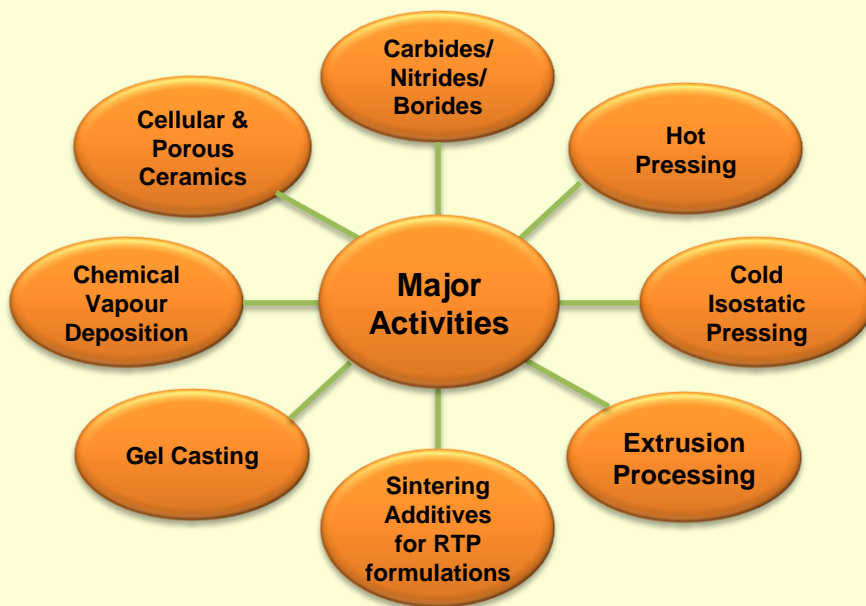
CENTRE FOR NON-OXIDE CERAMICS (CNOC)



Uni-axial hydraulic press



High temperature vacuum sintering furnace



Large size cold isostatic press (CIP)



Vacuum hot-press

- ◆ Developing Innovative Processing Techniques for Technology Oriented Product Development
- ◆ Materials Synthesis and Fabrication, Characterization and Testing,
- ◆ Prototype Development, Technology Transfer

PROCESSING EXPERTISE

- Gelcasting
- Spray-freeze drying
- Pressureless sintering
- Chemical vapour deposited SiC
- Porous ceramics
- Extrusion processing
- Oxidation resistant SiC coating



Machined SiC parts



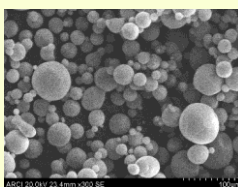
Light-weight foams



Reticulated foams



Sintered SiC tubes



RTP SiC granules



SiC-SS brazed joints

MAJOR FACILITIES

- High-tonnage hydraulic press
- Cold iso-static press
- High-temperature sintering furnace
- CVD system
- Conventional and ultrasonic machining facilities
- Extrusion press



Ultrasonic machining system



Hot-pressed SiC parts



Polished surface of CVD SiC



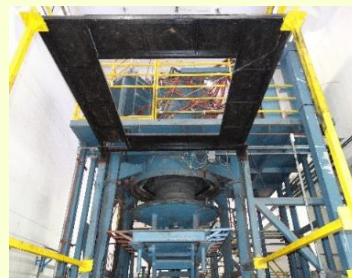
5-axis CNC machine



Freeze granulator



Rheometer



CVD system



Extrusion press

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