

Central Glass and Ceramic Research Institute

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CGCRI, KOLKATA

Central Glass and Ceramic Research Institute (CGCRI), a vision of Pandit Jawaharlal Nehru, Dr Bidhan Chandra Roy and Dr Meghnad Saha, started off in 1944 in a limited manner. It was, however, formally inaugurated by Pandit Nehru, on August 26, 1950. Dr Atma Ram, who later became DG-CSIR, was the founder Director of the Institute.

The Institute is the only organisation in India pursuing R&D in glass, and one among a very few carrying out R&D in various aspects of ceramics and ceramic based composite materials. In the fledgling phase, the activities were related to the beneficiation and characterization of raw materials for glass and ceramics to help the indigenous industry. With the passage of time, the focus was diversified to suit the country's needs as well as national and international developments in the field of science & technology.

Starting from the basic R&D in materials science to the process of materials development in the bench and prototype scales and to the process of industrial production through technology transfer, the Institute has developed a wide spectrum of expertise base.

Currently, the Institute is engaged in those activities that are related to the identified priorities of nation. These are chiefly the strategic sector, nanoscience & technology, healthcare, water technology, energy and environment, communication, structural health monitoring, sensor technology, contributions to SME and skill up-gradation, and entrepreneurship developments.



Prof Indranil Manna, DIRECTOR, CGCRI

The main achievements of the Institute have been in the following areas : optical glass, radiation resistant glass, laser glass, low expansion glass, sol- gel processing of special ceramic and glass coating, optical communication fibers, optical fiber based sensors, arsenic and iron removal technology for water, bio-ceramic implants and prostheses, solid state sensors, solid oxide fuel cells, lithium battery, engineering structural ceramics, specialized refractory materials, and traditional ceramics. The Institute has been serving various sectors in the country including strategic, societal and the general industries. It has one of the best facilities in the country for the processing of ceramics and glass materials and characterizing them.

The Institute also gets the benefit of the association of a large number of research scholars and students. International collaboration with important R&D institutes of a large number of countries gives an opportunity to the Institute to keep itself abreast with the latest developments in the key areas which it is pursuing.