

## **CALL FOR PROPOSAL FOR DEPARTMENT OF SCIENCE & TECHNOLOGY UNDER TECHNOLOGY DEVELOPMENT PROGRAMME ON DEVELOPMENT OF GLASS AND CERAMIC TECHNOLOGIE**

Department of Science and Technology (DST) is implementing Technology Systems Programme aimed at technology development and transfer in identified niche areas. This programme supports activities at developing and integrating technologies to evolve technology systems both in the advanced/emerging areas and in traditional sectors/areas. Under the programme, feasibility of newer ideas/concept is assessed for their potential conversion into useful technology/product.

**One of the identified niche area under the programme relates to Development of Glass & Ceramic Technologies with an objectives to develop commercially viable technologies of interest to either existing industries or start-up companies. A few identified areas for submission of the project proposals for funding from DST are:**

New functionality in glasses and glass ceramics; nano-structured glasses; coated glass; energy efficient window; glasses for medicine and biotechnology; glasses for opto-electronics information and communication technology; glasses for structural and architectural applications; optical glass; high strength and toughened glasses; Glasses for energy and water technology; simulation and modeling of glass melting and processing; environmental issues in glass melting; glasses for biomedical applications; Coloured and artistic glasses; up-gradation of traditional glass melting and processing.

Oxide and non-oxide ceramics as engineering components; nano-ceramics-particulates, fibres and composites; liquid phase processing of nanoceramics; use of nanoceramics in refractories and traditional ceramics; multi-layer ceramics for structural and electronic applications; ceramic coatings for structural applications; thin-film ceramics for structural and electronic applications; microwave ceramics; ceramics for energy technologies; porous ceramics; ceramics for water technology; energy efficiency in ceramic processing; environment-friendly ceramic processing; microwave processing; modeling and simulation in ceramic technology; transparent ceramics; bio-ceramics; Geopolymers; up-gradation of traditional ceramic processing technology.

**DST Accepts proposals through out the year. The last date for submission of the proposal for considering in the next Meeting is 31<sup>st</sup> March, 2011.**

The Project Proposals could be submitted for financial support by scientists/engineers/technologists working in academic institutions/registered societies/R&D institutions/laboratories having adequate infrastructure/facilities to carry out Technology Development work/prototype building. DST would encourage multi-disciplinary proposals envisaging network/collaboration of various institutes having diverse expertise and facilities for synergistic implementation of the projects. Expertise/Intellectual Property Right (IPR), Technology Transfer to Industry with PI/Institute may be highlighted. Prescribed format is available under TSD programme at DST website : <http://www.dst.gov.in>.

The guidelines for formulation and submission of projects and the prescribed format can also be collected from **Shri Rajeev Sharma**, Scientist-“C” & Member Secretary (PAC on Tech. Systems), Room No: 20, Hall-C, Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi – 110 016 (E-mail : [rajeevsharma@nic.in](mailto:rajeevsharma@nic.in), Telephone : 011-26590310, 26602187). The complete proposals (15 copies) and/or suggestions regarding additional areas for technology development may be addressed to **Dr G. J. Samathanam, Adviser & Head., Technology Development and Transfer (TDT) Division, Department of Science & Technology (DST), Technology Bhavan, New Mehrauli Road, New Delhi – 110 016, Telefax : (011) 26862512/26590367, E-mail : [samathan@nic.in](mailto:samathan@nic.in)**