

## **CALL FOR PROPOSAL FOR DEPARTMENT OF SCIENCE & TECHNOLOGY UNDER TECHNOLOGY DEVELOPMENT PROGRAMME ON Innovative Civil Infrastructure Technologies**

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 Innovative Civil Infrastructure Technologies**

Civil Engineering infrastructure comprises buildings, roads, bridges, road interchanges flyovers, tunnels, railway tracks, dams, irrigation works, transmission towers, stadiums, etc. They are the backbone of national economy; they influence the quality of life and sustain developments in agriculture, industry, commerce, power, transportation and communication. They are indicators of the development state of a nation. At present India is making huge investments in the development and growth of the civil infrastructure in the country, for example, the golden quadrilateral and North-South, East-West expressway corridors, ambitious housing programmes, urban metros, high-speed railway connectivities, power projects and industrial expansions.

To optimize the utilization of resources committed for this rapid growth, innovative, efficient and new technologies are required to be developed through well designed and concerted national R&D programmes. These technologies must be sustainable, eco-friendly and in conformity with the national priorities and in harmony with the Indian milieu.

The Technology System Development Programme of DST invites R&D proposals in (1) the housing sector which will lead to speedy construction of energy efficient, environment friendly, material conserving, comfortable and economical dwellings in urban and rural areas; (2) road transportation sector with a focus on performance, durability, maintenance interventions, construction materials and binders and life-cycle cost; (3) bridge, interchange and fly over structures which are economical, durable and aesthetically appealing; and (4) civil engineering construction materials to provide options for the use of new materials, substitute materials, waste materials, innovative materials and eco-friendly materials.

**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) .**