

**Call for proposals for Department of Science and Technology under the
TECHNOLOGY SYSTEM PROGRAMME
ON WATER PURIFICATION AND
BIO-DEGRADABLE/BIO-MEDICAL POLYMERS**

The Programme Advisory Committee (PAC) of DST identifies the interalia areas needing technology interventions and proactively invites project proposals in the select areas. The water purification and biodegradable/bio-medical polymers are important areas selected under Technology System Programme.

In many parts of our country the subterranean water which is the main source of drinking water is polluted by non-permissible doses of salts, iron, arsenic and fluoride contaminants. Similarly, river water which is another source of drinking water is contaminated with iron ore and coal dust in mineral-rich states like Jharkhand, Chhattisgarh, Rajasthan, etc. Various technological solutions such as filtration by polymer and ceramic membranes/filters, flocculation, RO process for desalination for hard/brackish water, and other treatment methods are in vogue in some parts in India. However technological viable systems have to be developed to provide safe drinking water to each and every citizen of India. Sound technological solutions economically viable and justifiable are the need of the hour.

The Department of Science and Technology invites proposals not only for technology systems in filtration, flocculation, RO but also environmentally safe solutions for sludge treatment.

The polymers due to their outstanding characteristics are finding increasing applications in household, transport, industrial and agricultural fields. They are also being increasingly used as artificial organ and transplant in various bio-medical applications. Due to their visibility, long life and throw away culture in our country, plastic litter is visible everywhere. There is a need of sound policy of their recovery/recycling and reuse. One of the solutions is to use biodegradable polymers based on microbial/agricultural/forest resources. This technology is a recent one and is being fervently pursued in every part of the world. Hence this is a part of Technology System Group of DST as well. Proposals with technology system approach are solicited.

Project proposals in the prescribed format may be sent to Shri Sanjay Bajpai, Member Secretary, Programme Advisory Committee (PAC) on Technology Systems, Department of Science and Technology, Technology Bhavan, New Mehrauli Road, New Delhi 110 016 (e-mail: sbajpai@alpha.nic.in). The proforma for submission of project proposals is available on <http://www.dst.gov.in> and can also be obtained by writing to the above address.

**Call for proposals under
On Molecular Electronics Conducting Polymers and Noninvasive Bio-sensors**

Department of Science and Technology, Govt. of India under its programme on Technology systems intends to catalyse and support technology feasibility and development projects in the area of molecular electronics, conducting polymer electronics and bio-sensors. The proposal should aim at establishing technical feasibility of emerging concepts and also aim at development of sensors, microactuators and molecular electronic devices such as diodes, LEDs, FET, information storage (memory) devices based on conducting polymers, self-assembled monolayers and other thin films.

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