# Call for preliminary proposals for establishing low temperature and high magnetic field facilities (Phase II)

**(Department of Science and Technology, Government of India)**

Department of Science and Technology (DST), Govt of India has established three national facilities for experiments that need low temperature and high magnetic field. The three facilities are located at UGC–DAE, Inter University Consortium, Indore, Indian Institute of Science, Bangalore and Central University, Hyderabad. Given the importance of this field, DST recognizes that there may be need to establish such facilities in other locations in the country. This is to ensure that a large number of researchers can undertake experiments in different active areas of investigation that need low temperature and high magnetic field.

To assess and ascertain the scope and need for more such facilities, DST invites preliminary (concept) proposals for establishment of low temperature and high magnetic field facilities from researchers belonging to academic institutes and research laboratories and particularly universities. The preliminary proposals will be screened and shortlisted by a duly constituted expert committee. PI's of shortlisted proposals with adequate potential as well as credentials will be called for further academic consultation of project proposals. The PI's of selected and consolidated proposals will then be requested to submit a complete proposal with detailed budget in proper format to DST. The detailed proposal will be examined by the expert committee and processed for approval.

The primary consideration of shortlisting will be novelty of the proposal, scientific justification of such facilities in view of experiments proposed, scope for innovation in the proposal and credentials of the PI's and Co-PI's (if any). Proposals that propose to do innovative experimentation, create unique facilities by system integration that do not exist and propose to build futuristic cryogenic systems will have better chance of getting selected. Augmentation of existing facilities and use of new and upcoming cryogen free systems are also welcome.

The preliminary concept proposal should contain:

(i) Name, affiliation and address of PI's and Co-PI's

(ii) Brief CV and list of publications (last 5 years) of PI's and Co-PI's

(iii) Short statement of current research activities (500 words)

(iv) Facilities currently available with the PI and co-PI and their utilization

(v) Statement of scientific problems with specifics (1000 words)

(vi) Facilities proposed to be created

(vii) Any developmental work that will be taken-up as a part of the proposal

(viii) Scientific and technical value addition expected from new facilities

*General long write-ups without specifics are strongly discouraged and will not be shortlisted*

Interested researchers are requested to send proposals (5 copies and soft copy by e-mail) to:
Professor A. K. Raychaudhuri
S.N. Bose National Centre for Basic Sciences
Block JD, Sector III, Salt Lake, Kolkata 700 098
e-mail: lowtfac@bose.res.in

One hard copy of the proposal should be sent simultaneously to:
Dr. Praveer Asthana
Department of Science and Technology
Technology Bhawan, New Mehrauli Road, New Delhi 110 016

Proposals received after **15 July 2005** will not be considered.