

Department of Science & Technology

(International Division)

CALL FOR APPLICATIONS FOR BEAMTIME ALLOCATION ON ITALIAN SYNCHROTRON RADIATION SOURCE, ELETTRA

1. The Department of Science & Technology (DST), together with the Italian Ministry of Foreign Affairs, is promoting the use of beamlines at Italian synchrotron source, Elettra, at Trieste by the Indian scientific community under the Indo-Italian Programme of Cooperation (POC) in Science & Technology 2002–2004. DST invites proposals for experiments on these beamlines.

2. Elettra is a third generation 2 GeV Synchrotron Radiation Source of high brilliance and offers intense VUV, soft and hard X-ray beams using bending magnets, undulators and wigglers. Proposals can be made for experiments on the following ten beamlines:

- i. Super ESCA (Beamline 2.2 R)
- ii. ESCA Microscopy (Beamline 2.2 L)
- iii. VUV Photoemission (Beamline 3.2 R)
- iv. Spectromicroscopy (Beamline 3.2 L)
- v. Circularly Polarised Light (Beamline 4.2 R)
- vi. Hard X-ray Diffraction (Beamline 5.2 R)
- vii. Small Angle X-ray Scattering (Beamline 5.2 L)
- viii. Gas Phase Photoemission (Beamline 6.2 L)
- ix. Synchrotron Radiation of Medical Physics-SYRMEP (Beamline 6.1 R)
- x. Surface Diffraction (Beamline 7.2 R)

3. Further details of beamlines are available at the internet web address <http://www.elettra.trieste.it>. They can also be got by writing to Smt. Sadhana Relia, Scientist F, International Division, Department of Science & Technology (DST), Technology Bhawan, New Mehrauli Road, New Delhi 110 016 (Fax No. 011-686 2418; e-mail: srelia@alpha.nic.in).

4. Typical experiment at Elettra would take about a week and request for sponsoring one scientist for Indian experiment awarded up to three shifts; two scientists for Indian experiment awarded up to six shifts; and three scientists for Indian experiment awarded nine shifts or more, will be considered under the Indo-Italian POC. Scientists are encouraged to contact the Elettra beamline coordinator prior to making proposal or revising the proposal. The list of scientist-in-charge of Elettra beamlines could be obtained from DST/Elettra website <http://www.elettra.trieste.it>. Collaborative experiments with Italian and other local groups at Elettra can also be proposed.

5. Experiments at separate beamlines require separate proposals with complete scientific justifications.

6. The scientists are requested to send their proposal (one in original and 8 additional copies) to DST by **31 December 2003**.

7. The applications invited under this advertisement will be subject to an initial scrutiny within India by DST through an 'Expert Committee' followed by another round of evaluation by 'Elettra Scientific Review Committee'. All revised proposals should also be submitted only through DST with a clear statement of reasons for resubmission and a copy of comments from Elettra, if any.

8. As per the present policy of Sincrotrone Trieste, the Indian applicants (selected by DST) will have to submit the Application Form on-line by getting connected to Virtual User Office <http://users.elettra.trieste.it> (Netscape 3, Internet Explorer 4, etc.) with Java script enabled and forwarding one complete printed version of the same to DST.

9. Once the Indian proposal (original or revised) qualifies the two step evaluation, DST will fund the international air travel expenses from place of work in India to place of work in Italy and back by Economy Excursion IATA Fare and the Italian Ministry of Foreign Affairs will provide the daily allowance for the Indian scientist to cover boarding, lodging and local transport in Italy @ Euro 93 per day under the Indo-Italian POC in S&T.