

## Call for submission of experimental proposals for beam-time at Variable Energy K-130 room temperature Cyclotron

### Variable Energy Cyclotron Centre Department of Atomic Energy 1/AF, Bidhan Nagar, Kolkata 700 064

The room temperature K-130 Variable Energy Cyclotron at Kolkata has been delivering uninterrupted intense light ion beams for experimental use after extensive modernization for over one year. Protons are being accelerated in the energy range of 7 MeV to 20 MeV with typical beam currents of around 10 microAmps, while 5 microAmps of alpha beams are available in the energy range of 30 MeV to 60 MeV on a round the clock basis and are being used extensively in various fields of research; mainly nuclear physics, material science, radio-chemistry, isotope production, etc.

Several sophisticated detector facilities have been developed by the in-house experimental groups for meaningful utilization of the beamtime, viz. the LAMBDA high energy photon spectrometer, 4-pi gamma multiplicity filter, 4-pi charged particle detector array, neutron time-of-flight detector array and a large volume neutron multiplicity detector, for nuclear physics experiments. These large and sophisticated detector systems are complete with their dedicated front-end electronics and Data Acquisition Systems.

Scientists who are interested to make use of the VEC K-130 beamtime and the facilities are required to submit scientific proposals for experiments. Each proposal will be evaluated by an expert committee and subsequently beamtime will be allotted depending on the scientific merit of the proposal and availability of beamtime. Complete experimental proposals in the prescribed format are to be submitted by e-mail to [beam\\_time@vecc.gov.in](mailto:beam_time@vecc.gov.in)

For further clarifications, please contact: **Dr Sudhee Ranjan Banerjee**, Secretary, VEC Users' Committee, e-mail: [srb@vecc.gov.in](mailto:srb@vecc.gov.in), Tel.: +91-33-2318 2307, Fax: +91-33-2334 6871.

The approved proposals from universities may be considered for support under CRS by the UGC-DAE-CSR, Kolkata centre. The support includes fellowship, travel and contingency. The university users are requested to contact **Dr S. S. Ghugre**, UGC-DAE-CSR, Kolkata (e-mail: [ssg@alpha.iuc.res.in](mailto:ssg@alpha.iuc.res.in), Mob: 98310 37171) for further details regarding the support.

Please visit the webpage of VECC ([www.vecc.gov.in](http://www.vecc.gov.in)) for downloading the proforma for submission of proposals and other relevant details.

Dr R. K. Bhandari  
Director VECC