

Dr. Anup Kumar Choudhury had completed his Masters from NEHU, Shillong and Doctorate degree in Physics from JNU, New Delhi. He joined Inter University Accelerator Centre (IUAC) as a Scientist in 1996. He received training in Cryogenics at NSCL, Michigan and CERN Geneva. For the last 26 years he has worked on diverse Cryogenics fields related to indigenous development. In his initial years he worked on large scale cryogenics systems which involved setting up kW class helium plants, indigenous development of fully automated cryogenic distribution for LHe and LN2 system for LINAC program, with focus on **efficiency, reliability and availability**. During this time he developed many sensors required in this field (LN2 sensor, LHe sensor and ppm level impurity monitor for helium gas) and replaced imported sensors when they went defunct. All these sensors have now become integral part of regular LINAC operation. Then he got interested in the field of small scale cryogenics with cryocoolers. Among his many developments with cryocoolers are, (i) zero boil off superconducting Quadrupole magnet cryostat (ii) 64 lpd (liters per day) LN2 liquefier and (iii) 17.4 lpd helium liquefier. The cryocooler helium liquefier developed has among the highest liquid production rate reported till date. At present he is the Program Leader of Cryogenics at IUAC and has started to work for development of an indigenous dry Dilution Refrigerator which will help the recently launched NQM.