





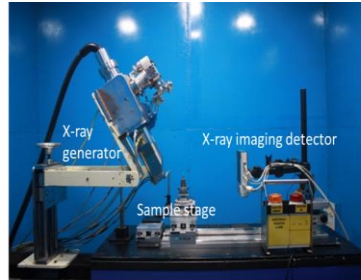
UGC DAE CSR Mumbai Centre: SPC- Nuclear and Radioanalytical Applications:

List of Accelerator and Other Facilities of NPD & TPD to be offered for Collaboration with Universities

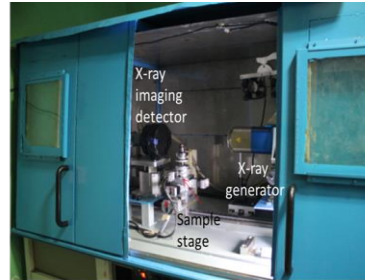
Sr No.	Facility with location at BARC	Photo of facility	Areas of R&D work	Contact Scientist (Name/Affiliation/Email ID)
1	Beam line, FOTIA, BARC	<p>Beam line for neutron and gamma-rays</p>  <p>Experimental setup at 25° Hill-Side Beam-Line FOTIA for fast neutron induced fission studies of Actinides</p>	Fast neutron induced fission and ancillary detector development	Dr. R.G. Thomas, SO/G, NPD, BARC rgthomas@barc.gov.in

2	Low background setup for high resolution gamma-ray spectroscopy, FOTIA, BARC	HPGe with Pb shielding 	Measurement of sample activity and gamma-ray spectroscopy	L.S. Danu, SO/F, NPD, BARC lsdanu@barc.gov.in
3	DURGA Facility, Dhurva, BARC	Clover detector array 	Nuclear structure and inbeam gamma-ray spectroscopy	Dr. S. Mukhopadhyay, SO/F. NPD, BARC somm@barc.gov.in
4	Purnima Laboratory, TPD, BARC	Neutron generator and X-ray sources 	Development of fast neutron detector and carry out the measurement of neutron cross section using mono energetic neutrons beam and	Dr. P. S. Sarkar, SO/G, TPED BARC pss@barc.gov.in

DD/DT neutron generator facility at Purnima Laboratories



225 kV X-ray micro-focus based Micro-imaging system



A cabinet based 160 kV X-ray Micro-imaging system

Best focal spot \sim 5 microns

Sample size can be handled: 0.5 mm to 120 mm

X-ray Micro Imaging & Computed Tomography Systems

x-ray imaging using
xray sources