

Media Laboratory at IMSc, Chennai



Recording Room at IMSc, Chennai

Green House at BARC Campus, Mumbai





Central fabrication facility at IPR



Photographs of Central Fabrication Facility at RRCAT



Hollow Spindle Lathe



Jig Boring Machine

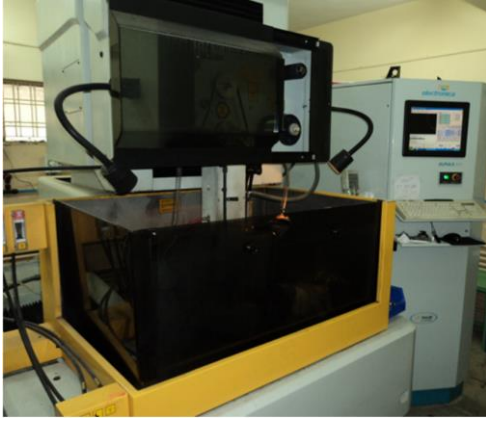


3 axes Machining Center



4 axes Horizontal Machining Center

Photographs of Central Fabrication Facility



CNC EDM Flush Type Wire Cut Machine



CNC EDM Submersed Type Wire Cut Machine



CNC Drill Tap Center



Radial Drilling Machine



Hydraulic Plate Shearing Machine with NC Back Gauge



Band Saw Machine



Hydraulic Press



Plate Bending Machine

Photographs of Central Fabrication Facility



CNC Water Jet Cutting machine



AC/DC TIG Welding Machine



Memco Welding Machine



Air Plasma Cutting Machine



Inspection & Measurement Instruments



3-Axes Coordinate Measuring Machine



Optical Profile Projector



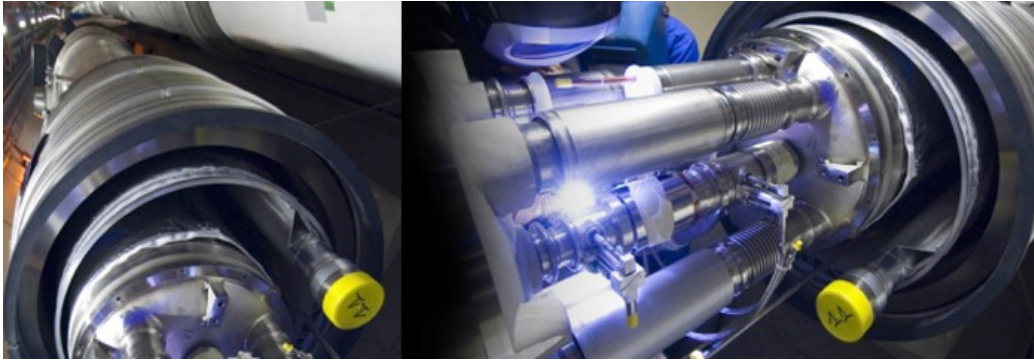
Vertical Height Gauge



Workshop

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The Computerized Numerical Control (CNC) machine tools, installed in the workshop, are being used in fabrication of precision experimental devices for different departments of the Institute.

Members...

Technical(21)

Auxiliary(2)

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BTIS Net Centre(s) at ACTREC, Tata Memorial Centre for Statistical Data Base

This centre also provides training to scientists from academic institutions of North-East region for the betterment of their teaching and research outcome.



Central Facilities at VECC: Cyclotron



Electronics lab



Gamma det



Central Workshop



Facilities at IGCAR

Central Electronic Instrumentation



Electronics & Instrumentation Group (EIG) consists of Electronics & Instrumentation Division, Instrumentation & Control Division, Real Time Systems Division, Computer Division and Security and Innovative Sensors Division. The major activities of the group are

- Design & Development of Electronic Instrumentation & Control systems for PFBR, FBR, DFRP, FRFCF & Reprocessing Plants. Providing Calibration facility for electronic instruments traceable to national standards.
- Design support to BHAVINI during manufacturing of I&C systems / equipments, and Indigenization of Instrumentation & Control systems.
- Providing high-performance computing & data communication facilities, development of Operator Training Simulator for PFBR/ FBR, Wireless Sensor Networks, 3D visualization & walkthrough, computational intelligence systems and implementing organizational Knowledge Management system.
- Development and supply of modern state of art security systems, sensors and instruments to nuclear facilities.

The Group is Steered by **Dr. B.K. PANIGRAHI**, Director, EIG.

Recent Knowledge Assets

- D** Hardware design report on backscatter based transmitter for WSN
- P** Fault tolerant Basestation
- P** Fault Tolerant Back Bone Network design
- C** Novel Patch Antenna Design for Wireless Channel Monitors

Knowledge Analytics

Pie chart showing the distribution of knowledge assets:

- Bookchapter
- Conference
- Design
- Journal
- Presentations
- references

Taxonomy

- Electronics and Computer Engineering
- Computer Science & Engineering
- Electronics & Instrumentation
- Instrumentation & Controls

PFBR Operator Training Simulator

Central Workshop Facility-CWS

ENGINEERING SERVICES GROUP CENTRAL WORKSHOP DIVISION





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DAE Convention Centre



View of Convention centre having facility to conduct multiple functions simultaneously.



A photograph of HBNI Foundation Day function on 3rd June 2019. Chairman, AICTE was the Chief Guest of the function.



A view of the auditorium having 700 seating capacity.



Students and faculty members of HBNI performed a wonderful cultural evening on the Foundation Day.

Open Air Amphitheatre at NISER Campus





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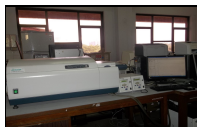
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