

# Inauguration of NATIONAL TECHNOLOGY WEEK 2023

SCHOOL TO STARTUP  
'IGNITING YOUNG MINDS TO INNOVATE'  
by

**Shri Narendra Modi**  
Hon'ble Prime Minister

May 11<sup>th</sup>, 2023 | Pragati Maidan, Delhi



## Govt. of India inaugurates new facilities of DAE

### SIRD Editorial Team

Bhabha Atomic Research Centre, Trombay - 400 085, India

The National Technology Day is celebrated each year on May 11<sup>th</sup> to mark the country's successful nuclear experiments in Pokhran during the year 1998.

Importantly, the year 2023 marks the completion of 25 years of this unique national achievement.

On this occasion, the Prime Minister of India laid the foundation stone and dedicated to the nation multiple projects worth more than Rs 5800 crore related to scientific and technological advancement in the country.

The facilities of Department of Atomic Energy (DAE) dedicated to the nation at the Technology Day event-2023 include Fission Molybdenum-

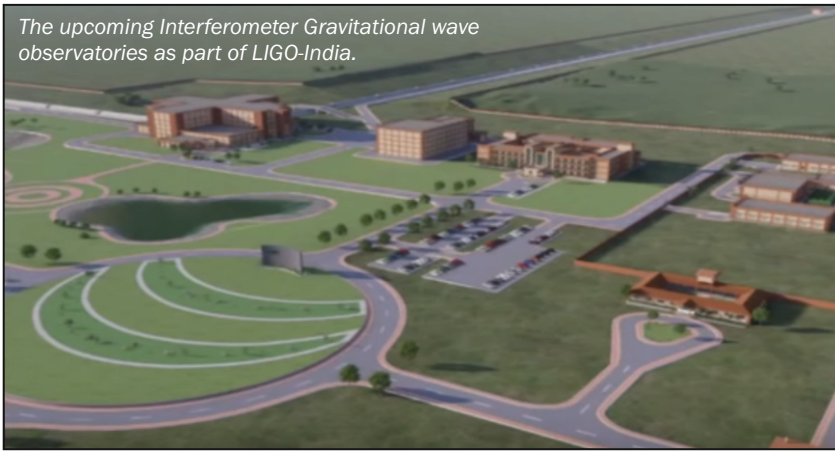
99 Production Facility, Mumbai; Rare Earth Permanent Magnet Plant, Visakhapatnam; National Hadron Beam Therapy Facility, Navi Mumbai; Radiological Research Unit, Navi Mumbai; Homi Bhabha Cancer Hospital and Research Centre, Visakhapatnam; and Women & Children Cancer Hospital Building, Navi Mumbai.

Besides these, the Govt. of India also laid the foundation stone remotely for various pan-India facilities, including Homi Bhabha Cancer Hospital in Odisha's Khurda district; Laser Interferometer Gravitational wave observatories at Hingoli in Maharashtra as part of LIGO-India project; Platinum Jubilee Block of Tata Memorial Hospital at Parel in Mumbai.



First Day cover released during NTD 2023 event marking completion of 25 years of Operation Shakti.

The upcoming Interferometer Gravitational wave observatories as part of LIGO-India.



**LIGO-India**, to be developed in Hingoli, Maharashtra, will be one of the handful Laser Interferometer Gravitational wave observatories in the world. It is an extremely sensitive interferometer of 4 km arm length capable of sensing gravitational waves generated during the merger of massive astrophysical objects such as black holes, and neutron stars. The LIGO-India will work in synchronization with two observatories operating in the United States - one in Hanford, Washington and the other in Livingston, Louisiana.

Photo courtesy of Doordarshan, Ministry of Information and Broadcasting, Govt. of India.

Bird's eye view of Rare Earth Permanent Magnets production facility of BARC Visakhapatnam.



**Rare Earth Permanent Magnets** are produced primarily in developed countries. The facility for the production of the Rare Earth Permanent Magnet has been developed in Bhabha Atomic Research Centre at Visakhapatnam. The facility has been established based on indigenous technology and using indigenous Rare Earth material extracted from indigenous resources. With this facility, India will join a select group of nations with the capacity to produce Rare Earth Permanent Magnets.

Photo courtesy of Doordarshan, Ministry of Information and Broadcasting, Govt. of India.

The National Hadron Beam (Proton) Therapy Facility of Tata Memorial Centre, Navi Mumbai.



**The National Hadron Beam (Proton) Therapy Facility** of Tata Memorial Centre, Navi Mumbai is a state-of-the-art facility which works to undertake highly precise delivery of radiation to the tumour with minimal dose to the surrounding normal structures. The precise delivery of dose to target tissue reduces the early and delayed side effects of radiation therapy.

Photo courtesy of Doordarshan, Ministry of Information and Broadcasting, Govt. of India.

**The Fission Molybdenum-99 Production Facility** is situated in BARC Trombay. Molybdenum-99 is the parent of Technetium-99m, which is used in more than 85% of imaging procedures for the early detection of cancer, heart disease etc. The facility is expected to enable about 9 to 10 lakh patient scans per year. The laying of the foundation stone and dedication of several Cancer Hospitals and facilities will decentralize and enhance the provisioning of world-class cancer care in different regions of the country.

DAE facility for processing of Fission Molybdenum-99.



Photo courtesy of Doordarshan, Ministry of Information and Broadcasting, Govt. of India.