





PLATINUM JUBILEE YEAR
70

Glorious Years

1954 - 2024





DR. AJIT KUMAR MOHANTY

Secretary to the Government of India,
Department of Atomic Energy &
Chairman, Atomic Energy Commission

“

... from humble beginnings to standing tall
on the world nuclear map, DAE's 70-year journey
is a testament to India's scientific prowess.

With eyes on the future, we continue
to strive for a self-reliant, sustainable,
and technologically advanced India...

”



India's largest indigenously built 2 x 700 MWe PHWRs at the Kakrapar Atomic Power Station (KAPS), Kakrapar, Gujarat





Unit-4 of KAPS commenced operation at its full power
on 21 August 2024



List of Gazetted Holidays

15th August: Independence Day

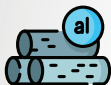
26th August: Janmashtami (Vaishnva)

AUGUST 2024

DAE PLATINUM JUBILEE EVENTS



DAE celebrates its Platinum Jubilee on 2nd Aug 2024 marking 70 Years of ground-breaking achievements
DAE, Mumbai, Maharashtra



Alumina CRM jointly developed by NCCCM, BARC and NALCO launched on 16th Aug 2024
BARC, Hyderabad, Telangana

1



KAPP-4, the Kakrapar Atomic Power Station Unit-4, achieves its full power operation on 21st Aug 2024
NPCIL, Kakrapar, Gujarat

2



Tata Memorial Centre organises the Homi Bhabha Cancer Conclave 2024 during 24th-25th Aug 2024
TMC, Mullanpur, Punjab

3

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70
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1954 - 2024



IREL (India) Limited specialises in mining, processing, and production of atomic minerals and rare earths

With a strong focus on innovation and industry development, IREL aims to expand its mineral-producing capacity





SEPTEMBER

2024

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



List of Gazetted Holidays

16th September: Milad-un-Nabi or Id-e-Milad
(Birthday of Prophet Mohammad)

DAE PLATINUM JUBILEE EVENTS



Portable Laser-based Additive Manufacturing for Industrial Demonstration launched on 4th Sep 2024
RRCAT, Indore, Madhya Pradesh

4



AIC-Pi-Hub Technology Demonstration-cum-Incubation Centre launched on 4th Sep 2024
RRCAT, Indore, Madhya Pradesh

5



Joint Venture between IREL and UKTMP, Kazakhstan for Titanium Slag Plant launched on 17th Sep 2024
IREL, Mumbai, Maharashtra

6



Inauguration of Digital Studio and ICT Classrooms at Training School Complex on 27th Sep 2024
BARC, Mumbai, Maharashtra

7

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70
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1954 - 2024

Major Atmospheric Cherenkov Experiment (MACE) Observatory at Hanle, Ladakh





MACE is the largest imaging Cherenkov telescope in Asia and the highest of its kind in the world



OCTOBER

2024



SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



List of Gazetted Holidays

2nd October: Mahatma Gandhi's Birthday

12th October: Dussehra

31st October: Diwali (Deepawali)



OCTOBER 2024

DAE PLATINUM JUBILEE EVENTS



Major Atmospheric Cherenkov Experiment (MACE)
Observatory inaugurated at Hanle on 4th Oct 2024
BARC, Mumbai, Maharashtra

8



Department of Atomic Energy Platinum Jubilee
Conclave during 22nd-26th Oct 2024
NISER, Bhubaneswar, Odisha

9



Electronics Grade B-11 Enrichment Facility
inaugurated on 23rd Oct 2024
HWBF, Talcher, Odisha

10



Inauguration of Dedicated Environmental Survey
Laboratory at BARC Vizag
BARC, Visakhapatnam, Andhra Pradesh

11

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70
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1954 - 2024



भारत सरकार
परमाणु ऊर्जा विभाग
भारतीय भारी जल बोर्ड सुविधाएँ (तालचर)

**इलेक्ट्रॉनिक्स ग्रेड बी 11
संवर्धन सुविधा**

का उद्घाटन

डॉ. के. मोहंती

परमाणु ऊर्जा आयोग
एवं
परमाणु ऊर्जा विभाग
की द्वारा समन द्वारा

की उपस्थिति
में
श्री एस. सात्यकुमार
मुख्य कार्यकारी
की बोर्ड

श्री धर्मेश चंद्रा ओझा
सहायक
मुख्य कार्यकारी
(संयोजक)
(पुष्पा)



Government of India
Department of Atomic Energy
Heavy Water Board Facilities (Talcher)

**Electronics Grade B 11
Enrichment Facility**

Inaugurated by

Dr. A. K. Mohanty

Chairman, Atomic Energy Commission
And
Secretary, Department of Atomic Energy

In the August Presence of

Shri S. Satyakumar
Chairman & Chief Executive
Heavy Water Board

Shri Dharmesh Chandra Ojha
Officer on Special Duty
Heavy Water Board Facilities
(Talcher)

21st October, 2024 (Wednesday)

Inauguration of Electronics Grade B-11 Enrichment Facility
at Heavy Water Board Facilities (HWBF), Talcher, Odisha

OCTOBER 2024

DAE PLATINUM JUBILEE EVENTS



Inauguration of Large-Scale Sea Water Desalination
Plant at OSCOM
IREL, Ganjam, Odisha

12



Demonstration of Cu-Cl Thermochemical Cycle
Pilot-Scale Facility for Nuclear Hydrogen Production
BARC, Mumbai, Maharashtra

13

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1954 - 2024



30 MeV Medical Cyclotron at the Chakgaria campus of Variable Energy Cyclotron Centre (VECC), Kolkata

The Medical Cyclotron Facility provides medical radioisotopes and radiopharmaceuticals for advanced cancer care





NOVEMBER 2024

SUN	MON	TUE	WED	THU	FRI	SAT
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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

List of Gazetted Holidays

15th November: Guru Nanak's Birthday

NOVEMBER 2024

DAE PLATINUM JUBILEE EVENTS



Launch of Special Illuminator Production Facility at CIRUS Complex
BRIT, Mumbai, Maharashtra

14



Inauguration of National Analytical Facility for Nutrition & Metabolism Research under ARUMDA
TIFR, Hyderabad, Telangana

15



Launch of Joint IPR-MoH&FW Portal for High-Speed Indigenous AI-based X-ray Imaging
IPR, Gandhinagar, Gujarat

16



Launch of Superconducting Cyclotron and 30 MeV Medical Cyclotron Facility
VECC, Kolkata, West Bengal

17



Launch of Iodine-131 Capsule Production Facility
BRIT, Navi Mumbai, Maharashtra

18

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70
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1954 - 2024

Unit-7 of the Rawatbhata Atomic Power Project (RAPP) at Rawatbhata, Rajasthan





Loading of nuclear fuel for the first time, known as the Initial Fuel Loading operation, in RAPP-7 completed in-August 2024




DECEMBER

2024

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

List of Gazetted Holidays

25th December: Christmas Day



DAE PLATINUM JUBILEE EVENTS



Launch of High Temperature Gas Cooled Reactor
for Production of Clean Hydrogen
BARC, Mumbai, Maharashtra

19



Intelligent Integrated Physical Protection System
for Physical Security of Critical Installations
BARC, Mumbai, Maharashtra

20



Dedication to the Nation of Metal Fuel Pin
Fabrication Facility for FBTR Sub-Assembly
IGCAR, Kalpakkam, Tamil Nadu

21



Dedication to the Nation of Pyro-process Facility
for Electro-refining of Metal Fuel
IGCAR, Kalpakkam, Tamil Nadu

22



Launch of No Carrier Added Lu-177
based Radiopharmaceuticals
BRIT, Navi Mumbai, Maharashtra

23

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1954 - 2024

DECEMBER 2024

DAE PLATINUM JUBILEE EVENTS



Launch of 68GE-68Ga Generator Production Facility at RC, Delhi
BRIT, New Delhi

24



Full Power Operation of 700 MWe Rajasthan Atomic Power Project Unit-7 (RAPP-7) PHWR
NPCIL, Rawatbhata, Rajasthan

25



Launch of the on-site Training Programme for Healthcare Professionals from BIMSTEC Countries
TMC, Kolkata, West Bengal

26



Inauguration of Peta Watt Laser jointly developed by TIFR Hyderabad and Rutherford Appleton Laboratory, CLF, UK
TIFR, Hyderabad, Telangana

27



Launch of Material Management Software Unified Portal
DPS, Mumbai, Maharashtra

28

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1954 - 2024

DAE PLATINUM JUBILEE EVENTS



Launch of Virtual Reality Experiences of DAE
Installations and Facilities
DAE, Mumbai, Maharashtra

29



Launch of High Purity Germanium Detector for
Identification of Radioisotopes and Nuclear and
Neutrino Physics Applications
BARC, Mumbai, Maharashtra

30



Commercial Launch of BLDC Motor Driven
Submersible Solar Powered Pump
BARC, Mumbai, Maharashtra

31



Inauguration of the Scientific Hub for Agricultural
Learning and Advancements CropSHALA
BARC, Mumbai, Maharashtra

32

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Layout of the LIGO-India, the first mega-science project in India, coming up at Aundha Nagnath, Hingoli, Maharashtra

LIGO-India is set to collaborate with the gravitational wave detectors in the US and Italy





JANUARY

2025

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

List of Gazetted Holidays

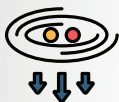
26th January: Republic Day

DAE PLATINUM JUBILEE EVENTS



Launch of Alkaline Water Electrolyser Prototype Plant for Green Hydrogen Production
BARC, Mumbai, Maharashtra

33



Launch of Demonstration Facility for Portable Cold Atom Gravimeter for Measurement of Earth's Gravitational Acceleration
RRCAT, Indore, Madhya Pradesh

34



Inauguration of Rare Earth and Titanium Theme Park for Industrial Demonstration
IREL, Bhopal, Madhya Pradesh

35



Launching of Facility for Production of Graphite Moderator for Apsara-U
BARC, Mumbai, Maharashtra

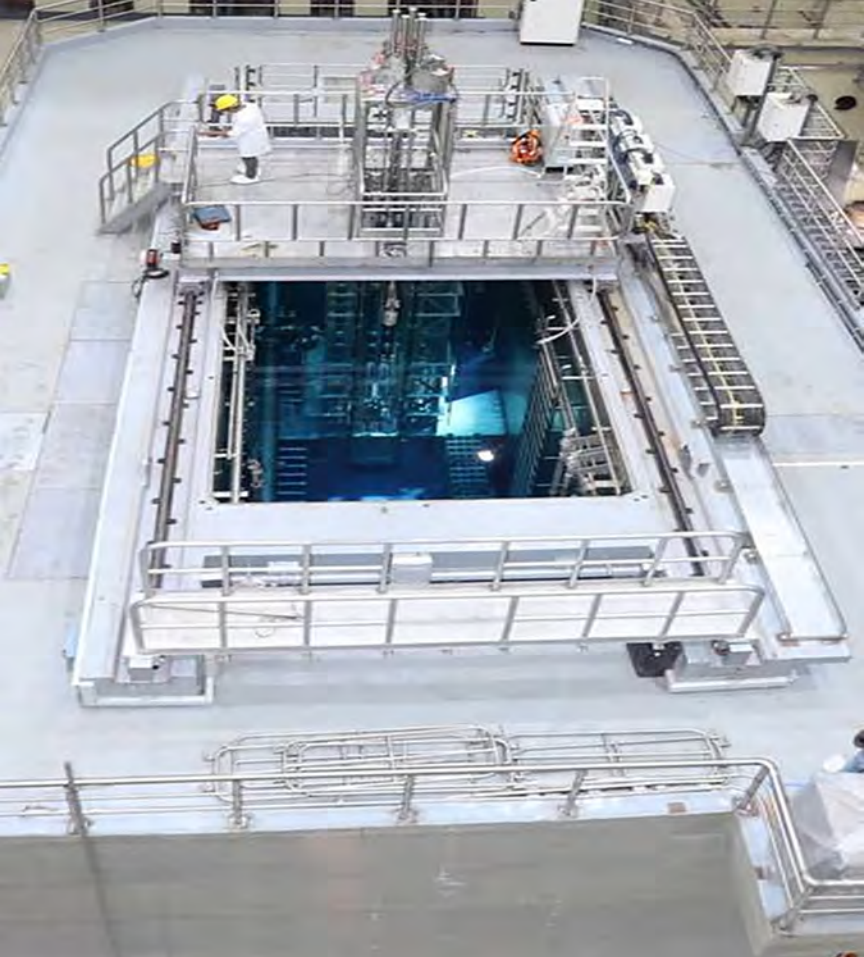
36



Raja Ramanna Centenary Celebration Conclave
BARC, Mumbai, Maharashtra

37

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1954 - 2024



Apsara-Upgraded or Apsara-U, the indigenously developed pool-type research reactor, at BARC, Mumbai

DAE PLATINUM JUBILEE EVENTS



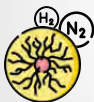
Inauguration of Technology Demonstration Facility
for Production of Hydrogen through I-S Process
HWBF, Mumbai, Maharashtra

38



Launch of Facility for Research in Experimental
Nuclear Astrophysics and
Celebrating 70 years of Post MSc.
SINP, Kolkata, West Bengal

39



Inauguration of Plasma Nitriding Job Shop
operated in Government-Owned-Company
Operated Public-Private-Partnership model
IPR, Gandhinagar, Gujarat

40



Inauguration of off-site LIGO-India
Testing and Training Facility
RRCAT, Indore, Madhya Pradesh

41

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1954 - 2024

Caesium-137 recovery and Caesium glass pencil making system at Waste Immobilisation Plant in BARC, Mumbai





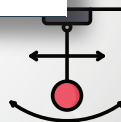
Caesium-137 based blood irradiator make India the first country in the world for commercial use of this technology



FEBRUARY

2025

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	20	22
23	24	25	26	27	28	



List of Gazetted Holidays

26th February: Maha Shivaratri



DAE PLATINUM JUBILEE EVENTS



Launch of Capacity Enhancement of
Special Plate Fuel Facility
BARC, Mumbai, Maharashtra

42



Launch of Demonstration Facility for
Bulk Separation of Strontium from HLW
and Improved Cs-137 Pencil Making Facility
BARC, Mumbai, Maharashtra

43



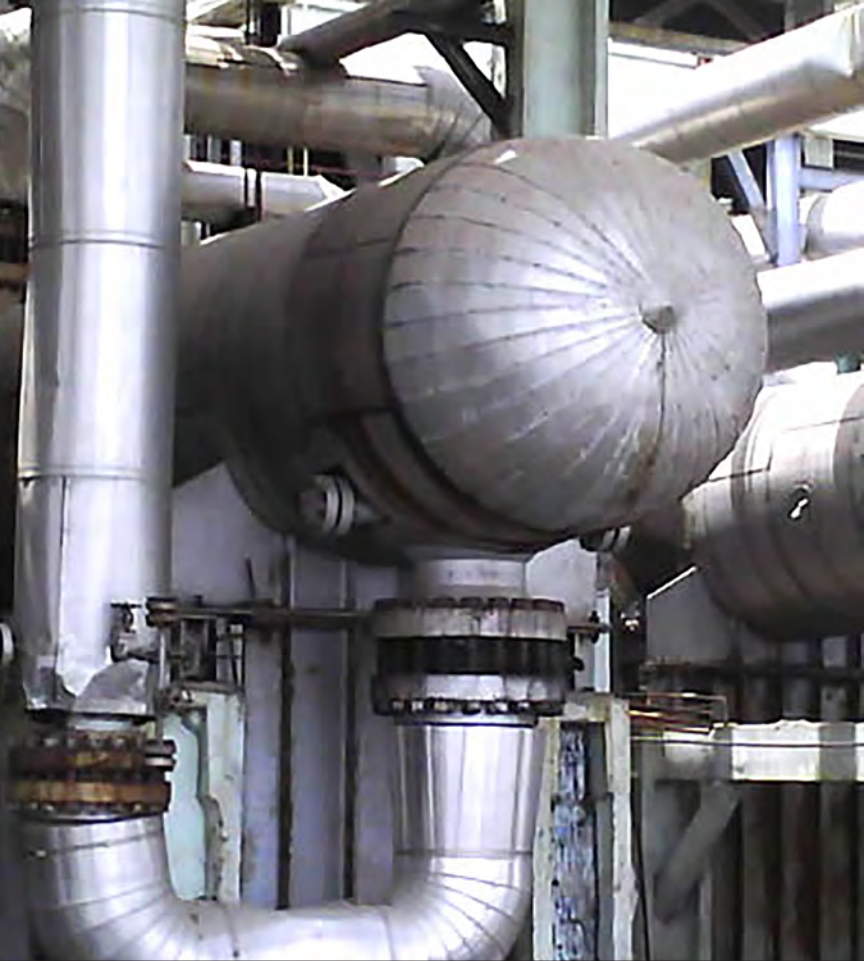
Launch of Indigenously Developed
Turbo Molecular Pump ANU TURBO-80
BARC, Mumbai, Maharashtra

44



Inauguration of Textile Dye Removal Facility
BARC, Jodhpur, Rajasthan

45



DAE is engaged in development of isotope and radiation technology applications for industrial and social benefits

DAE PLATINUM JUBILEE EVENTS



Launch of indigenously developed Remote Handling Facility for Inspection and Maintenance
IPR, Gandhinagar, Gujarat

46



Inauguration of Foucault Pendulum
at the DAE Convention Centre
DAE, Mumbai, Maharashtra

47



The Fission Molybdenum-99 Production Plant of the Board of Radiation and Isotope Technology (BRIT) in Mumbai

The plant has the capacity to meet the domestic demand as well as to export medical-grade radioisotope





MARCH

2025

SUN	MON	TUE	WED	THU	FRI	SAT
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	20	22
23	24	25	26	27	28	29

List of Gazetted Holidays

14th March: Holi

31st March: Id-ul-Fitr

DAE PLATINUM JUBILEE EVENTS



Bhoomi Pooja for Accelerator Complex and Launch of Pre-project Activities of Medium Energy High-Intensity Proton Accelerator
BARC, Visakhapatnam, Andhra Pradesh

48



Erection and Commissioning of Module-2 PHWR Fuel Fabrication Facility
NFC, Kota, Rajasthan

49



Commemorating the Supply of 40 kg RRR Niobium Ingot and Sheet for Single Cell RF Cavity
NFC, Hyderabad, Telangana

50



Handover of ATMF Project for Special Tubes
NFC, Hyderabad, Telangana

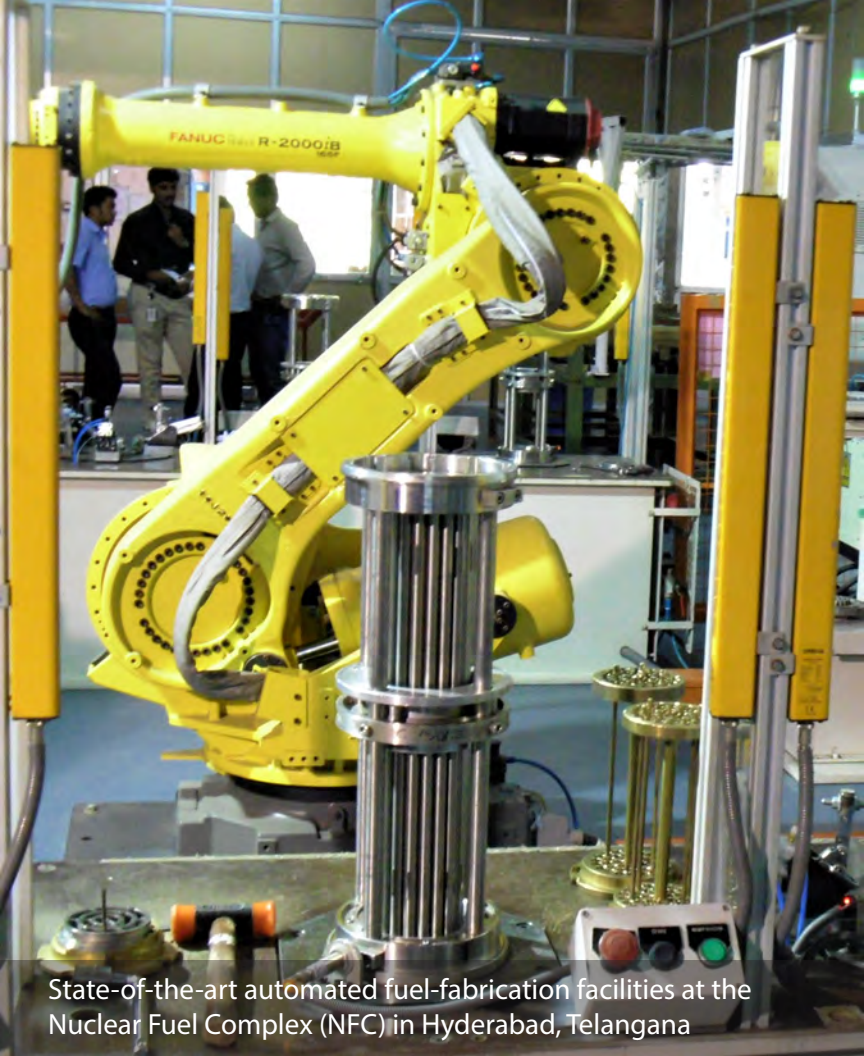
51



Commissioning of the upgraded ISOMED Facility
BRIT, Mumbai, Maharashtra

52

PLATINUM JUBILEE YEAR
70
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1954 - 2024



State-of-the-art automated fuel-fabrication facilities at the Nuclear Fuel Complex (NFC) in Hyderabad, Telangana

MARCH 2025

DAE PLATINUM JUBILEE EVENTS



Inauguration of Deuterium Depleted Water
Production Facility
HWP, Kota, Rajasthan

53



Commercial Launch of
Fission Molybdenum-99 Plant
BRIT, Mumbai, Maharashtra

54



Inauguration of Light and Sound Show Setup
at Sangam Jal Vayu Vihar, Anushaktinagar
DCSEM, Mumbai, Maharashtra

55

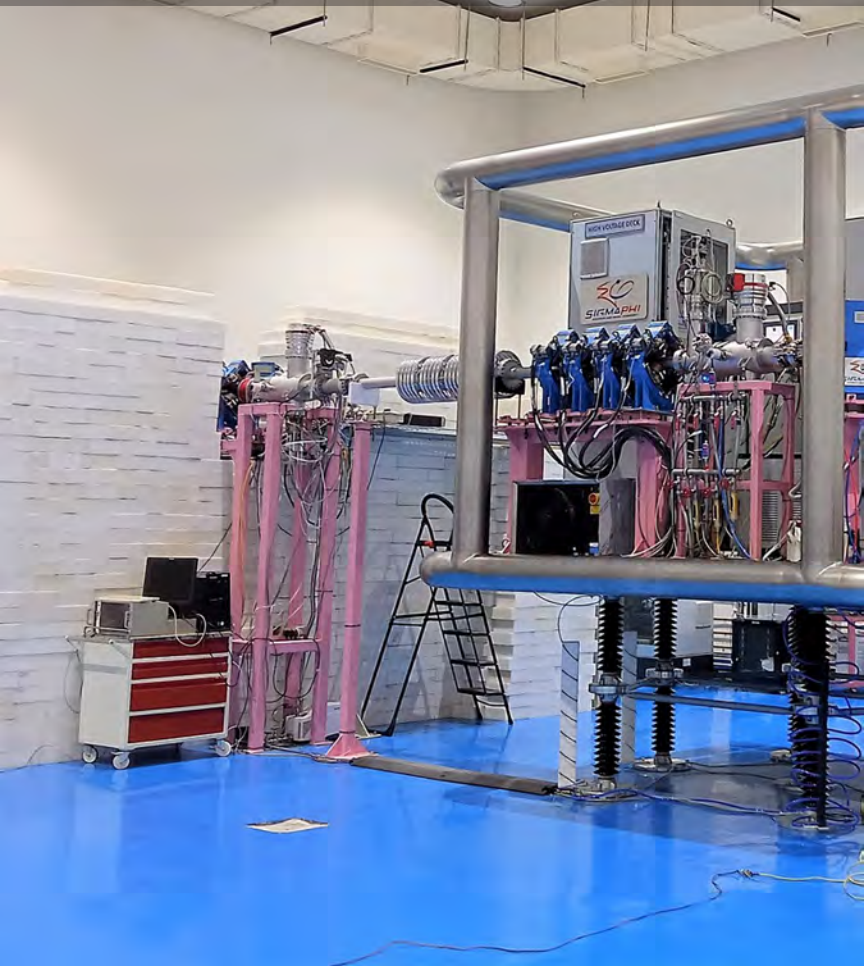


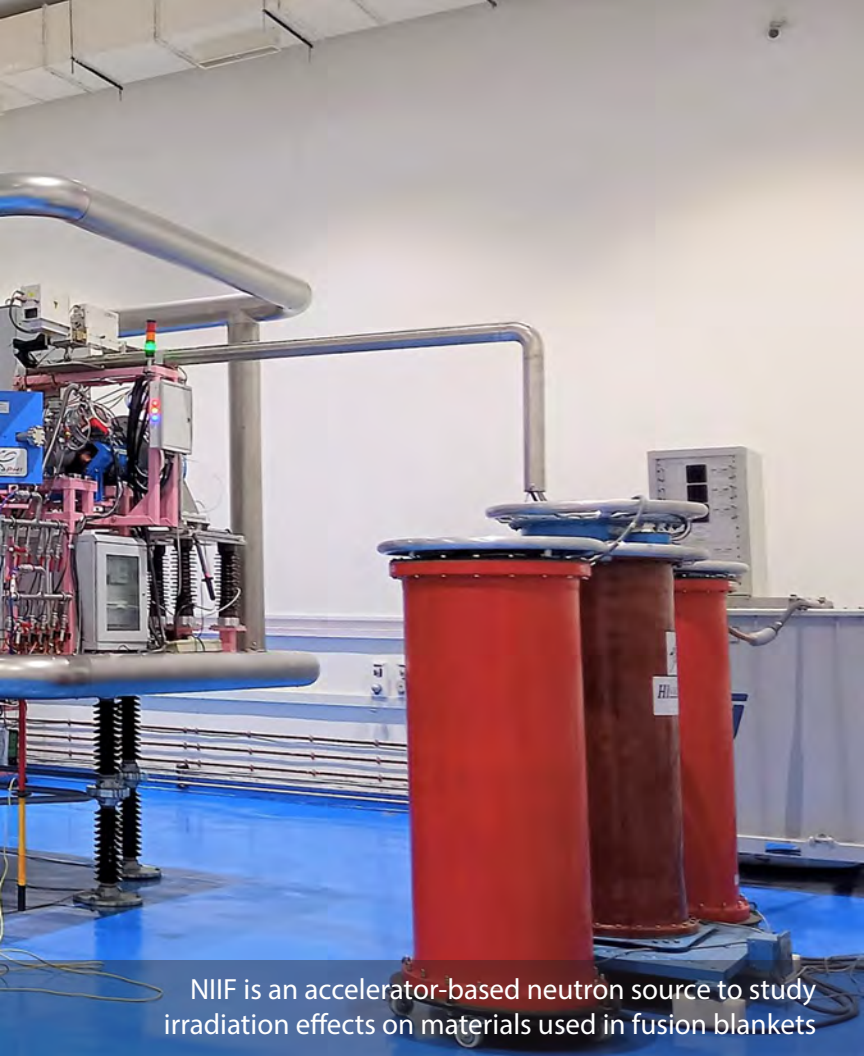
Launch of High-End Linear Accelerator and
Ring Gantry Linear Accelerator
TMC, Mumbai, Maharashtra

56

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1954 - 2024

Neutron and Ion Irradiation Facility (NIIF) at the Institute for Plasma Research (IPR) at Gandhinagar, Gujarat





NIIF is an accelerator-based neutron source to study irradiation effects on materials used in fusion blankets



APRIL

2025

SUN

MON

TUE

WED

THU

FRI

SAT

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



List of Gazetted Holidays

10th April: Mahavir Jayanti

18th April: Good Friday



APRIL 2025

DAE PLATINUM JUBILEE EVENTS



Inauguration of the Pilot Plant for Recovery of Valuable Metals from Alloy Scrap
HWBF, Mumbai, Maharashtra

57



Inauguration and Commencement of Operation of Heavy Water Production Facility
HWB, Thoothukudi, Tamil Nadu

58



Launch of indigenously developed Virtual Reality-Driven Articulated Robotic Arm for UHV Vacuum Environment
IPR, Gandhinagar, Gujarat

59



Launch of Irradiation Campaign for Fusion Reactor Materials using 14 MeV Fusion Neutron Facility
IPR, Gandhinagar, Gujarat

60



Technology Transfer of Plasma Assisted Water Production System
IPR, Gandhinagar, Gujarat

61

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70
Glorious Years
1954 - 2024



Indigenously developed 500 MWe Prototype Fast Breeder Reactor (PFBR) at Kalpakkam, Tamil Nadu

PFBR marks the use of plutonium as a nuclear fuel and also the first step at using thorium as an energy source





MAY

2025

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

List of Gazetted Holidays

12th May: Buddha Purnima



MAY 2025

DAE PLATINUM JUBILEE EVENTS



Full Power Operation of indigenous 500 MWe
Prototype Fast Breeder Reactor
BHAVINI, Kalpakkam, Tamil Nadu

62



Inauguration of Homi Bhabha
Cancer Hospital and Research Centre
TMC, Muzaffarpur, Bihar

63



Launch of Medical Cyclotron Facility
NISER, Bhubaneswar, Odisha

64

PLATINUM JUBILEE YEAR
70
Glorious Years
1954 - 2024

700 MWe Pressurised Heavy Water Reactors fuel fabrication facility of the Nuclear Fuel Complex (NFC) at Kota, Rajasthan





NFC Kota comprises state-of-the-art nuclear fuel manufacturing facilities for Indian PHWRs



JUNE						2025
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



List of Gazetted Holidays

7th June: Id-ul-Zuha (Bakrid)

JUNE 2025

DAE PLATINUM JUBILEE EVENTS



Erection and Commissioning of Module-1
PHWR Fuel Fabrication Facility
NFC, Kota, Rajasthan

65



Inauguration of the DAE Institute of
Advanced Studies Complex
DCSEM, Mumbai, Maharashtra

66

PLATINUM JUBILEE YEAR
70
Glorious Years
1954 - 2024



Pilger Mill facility at the Nuclear Fuel Complex (NFC)
Hyderabad, Telangana

NFC has successfully developed manufacturing processes for critical structural components of PHWR, BWR and FBR





JULY

2025

SUN	MON	TUE	WED	THU	FRI	SAT
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



List of Gazetted Holidays

6th July: Muharram



JULY 2025

DAE PLATINUM JUBILEE EVENTS



Launch of High Flux Research Reactor (HFRR)
BARC, Mumbai, Maharashtra

67



Launching of Construction Activities for
LIGO-India
RRCAT, Aundha Nagnath, Maharashtra

68



Inauguration of indigenous developed
Pilger Mill Facility
NFC, Hyderabad, Telangana

69

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70
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Homi Bhabha Centre for Science Education (HBCSE) of TIFR is the nodal centre in India for International Olympiads





HBCSE receives the flag of International Olympiad on Astronomy and Astrophysics for conducting IOAA 2025 in India



AUGUST

2025

SUN	MON	TUE	WED	THU	FRI	SAT
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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30



List of Gazetted Holidays

15th August: Independence Day

16th August: Janmashtami



AUGUST 2025

DAE PLATINUM JUBILEE EVENTS



HBCSE-TIFR : Hosting of the International Olympiad on Astronomy and Astrophysics IOAA 2025 in India
TIFR, Mumbai, Maharashtra

70



Concluding Ceremony of the Platinum Jubilee
Year of the Department of Atomic Energy
DAE, Mumbai, Maharashtra

PLATINUM JUBILEE YEAR
70
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CALENDAR OF EVENTS

CONCEPT AND DESIGN

SCIENCE COMMUNICATION, OUTREACH, AND PUBLIC ENGAGEMENT (SCOPE)

DEPARTMENT OF ATOMIC ENERGY