09/01/2025 THURSDAY

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DAILY NEWS ANALYSIS

POLITY

ECONOMICS

TECHNOLOGY

ECOLOGY

AS ISRO CHIEF, V. NARAYANAN WILL HAVE TO HIT THE GROUND RUNNING

SCIENCE AND TECHNOLOGY



Context: The space agency has scheduled significant projects, including the Gaganyaan human spaceflight, Chandrayaan-4, and Bharatiya Antariksha Station. Just days after Dr. V. Narayanan assumes office on January 14, it will proceed with the launch of the GSLV Mk-II/IRNSS-1K mission.

New Role and Major Projects

- Appointment:
 - To assume charge as Chairman of ISRO on January 14, 2025, succeeding S. Somanath.
 - Will also serve as Secretary, Department of Space, and Chairman,
 Space Commission for a tenure of two years.
- ISRO's Focus Areas:

Key Projects:

- Gaganyaan human spaceflight programme.
- Chandrayaan-4 lunar mission.
- Bharatiya Antariksha Station (India's own space station).
- Maiden Venus Orbiter Mission.
- Second Mars mission.

Upcoming Launches (2025):

- GSLV Mk-II/IRNSS-1K (January-end).
- First uncrewed flight of the Gaganyaan mission (G-1).
- Commercial launch using LVM3 vehicle.
- Several experiments linked to the Gaganyaan programme in the pipeline.

Professional Background

- Education:
- IIT Kharagpur alumnus:
 - M.Tech. in Cryogenic Engineering (1989, First Rank).
 - Ph.D. in Aerospace Engineering (2001).
- ISRO Tenure:
- Joined ISRO in February 1984, initially working on solid propulsion at Vikram Sarabhai Space Centre (VSSC).
- Shifted to Liquid Propulsion Systems Centre (LPSC) in 1989 to specialize in cryogenic propulsion.
- Headed LPSC since January 2018.
- Finalized ISRO's Propulsion Road Map (2017–2037).
- Key Contributions:

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 Advanced India's capabilities in cryogenic propulsion, making it one of only six nations to achieve self-reliance in this field.

- Played a critical role in flagship missions:
 - Chandrayaan (1, 2, 3).
 - Mangalyaan (Mars Orbiter Mission).
 - Aditya-L1 (solar observation).
 - Gaganyaan programme.

Personal Details

- Humble Beginnings:
- Born to a farmer and homemaker in Melakattuvilai, Kanniyakumari district, Tamil Nadu.
- Studied in a Tamil-medium school; his family home received electricity only when he was in Class 9.
- School topper in Class 10.
- Family:
- Married to Kavitharaj N.K.
- Children: Daughter Divyaa and son Kalesh.

Vision for ISRO and India's Space Sector

- Increasing India's Space Presence:
- Plans to expand from 53 satellites in orbit to meet growing demands in communication, navigation, and Earth observation.
- Advocates for increased private sector and startup participation in space sector reforms.
- Global Space Economy:
- Aims to boost India's share in the global space economy from 2% to 10%.
- International Collaboration:
- Emphasizes partnerships with spacefaring nations, highlighting mutual respect for technological capabilities.

Legacy and Achievements

- Integral to India's self-reliance in propulsion technologies.
- Visionary leadership shaping ISRO's propulsion and mission road map for decades.
- Consistent focus on societal and strategic applications of space exploration.

India ready to support Maldives in enhancing its defence preparedness, says Rajnath Singh

INTERNATIONAL RELATIONS



Defence Equipment Handover

- India delivered defence equipment and stores to the Maldives at the request of the Maldivian government.
- Reaffirmation of India's readiness to assist the Maldives in defence capability enhancement, aligning with Male's national priorities.

Discussions Between Defence Ministers

- Participants:
- Indian Defence Minister Rajnath Singh.
- Maldivian Defence Minister Mohammed Ghassan Maumoon (on his

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first visit to India under the new Maldivian government).

- Focus Areas:
- Capability Enhancement:
 - Provision of defence platforms and assets for the Maldives.
 - Augmentation of modern infrastructure and training for defence and security personnel.
- Strengthening the India-Maldives Comprehensive Economic and Maritime Security Partnership.

Statements and Reactions

- India's Commitment:
- India remains dedicated to its 'Neighborhood First' policy and the SAGAR (Security and Growth for All in the Region) vision.
- Maldivian Appreciation:
- Acknowledgment of India as the "first responder" in times of need.
- Gratitude for India's support in developing modern infrastructure and training for the Maldives National Defence Forces (MNDF).
- Defence Minister Rajnath Singh:
- Termed the talks as fruitful and emphasized their role in strengthening bilateral ties and the MNDF's capabilities.

Infrastructure Projects Discussed

- Ekatha Harbour Project:
- Foundation stone laid by Rajnath Singh and former Maldivian

counterpart Mariya Didi during an official visit in May 2023.

• Includes the development of a Coast Guard Harbour and repair facility at Sifavaru, one of the largest Indian grant-in-aid projects in the Maldives.

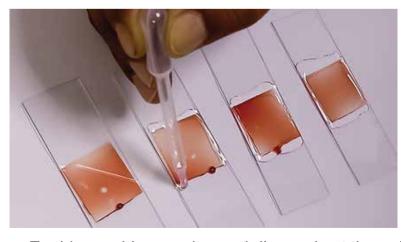
Other Key Events

- Maldivian Defence Minister laid a wreath at the National War Memorial in New Delhi.
- Was accorded a tri-service guard of honour as part of his visit.

This visit and the resulting discussions are expected to further bolster India-Maldives relations, particularly in defence and security cooperation.

ICMR gets low-cost tech to detect iron deficiency

SCIENCE AND TECHNOLOGY



- Development and Transfer:
 - Developed by researchers at Cornell University.
 - Transferred to the Indian Council of Medical Research (ICMR) for integration into programmes targeting:
 - Anaemia alleviation.
 - Women's health.
 - Maternal and child health.
 - Maternal and child health.

Purpose and Impact:

- Aims to provide accurate, quick, and affordable assessment of iron deficiency.
- Enables rapid screening and diagnosis at the point of need.
- Addresses a critical health issue in India, where 50% to 70% of pregnant women suffer from anaemia due to iron deficiency.

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How It Works:

- Requires a small finger stick and a drop of blood on a test strip (similar to a COVID-19 home test).
- Results are available in a few minutes via a reader.
- Data is uploaded to a clinical database using a mobile phone, wireless tablet, or computer.

Utility for Healthcare Workers:

- Enables on-the-spot interpretation of results.
- Facilitates guidance, triage, referral, or intervention immediately at the point of care.

INTEREST RATE CUTS NOT A SILVER BULLET TO REVIVE THE ECONOMY: CII CHIEF

ECONOMIC DEVELOPMENT



Insights on Addressing Economic Slowdown: Key Points from CII President Sanjiv Puri

- No Single Solution:
- An interest rate cut alone cannot address the economic slowdown.
- The Union Budget must focus on reviving consumption through:
 - Income tax cuts.
 - Reduction in fuel duties.
- A reforms roadmap to achieve 7% economic growth.
- Consumption Trends:
- Consumption has been subdued this year.
- Healthy monsoons are expected to boost rural incomes.
- Easing food inflation may spur consumption in the latter part of 2024-25.
- Interest Rate Cut:
- Industry expects a rate cut, but it is not a silver bullet for flagging consumption or growth.
- A cut could provide relief by:
- Reducing EMIs, thereby improving household spending.
- Directly benefiting sectors reliant on loan-based purchases.
- Consumption trends may improve within a few quarters as these measures take effect.
- Decoupling Monetary Policy:
- Monetary policy needs to be decoupled from food inflation, which is often influenced by weather-related factors.
- Tackling food inflation requires building resilience in agriculture.
- Impact of Food Inflation on Consumption:
- Persistent food inflation impacts middle-class consumption patterns due to its significant weight in their expenses.
- This necessitates long-term solutions for stabilizing food prices.



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IRAQI ARCHAEOLOGISTS PIECE TOGETHER ANCIENT ASSYRIAN TREASURES RAVAGED BY IS

ART AND CULTURE



Restoration Efforts at Iraq's Nimrud Archaeological Site

- Historical Significance:
- Nimrud, founded in the 13th century BC as Kalhu, was the second capital of the Assyrian empire and reached its peak in the 9th century BC.
- It housed treasures like bas-reliefs, sculptures, and decorated slabs, including depictions of King Ashurnasirpal II, mythical lamassus, and prisoners.
- Destruction by IS:
- In 2015, the Islamic State (IS) destroyed Nimrud's monuments, including the

2,800-year-old temple of Nabu, with bulldozers and explosives.

- Other sites such as the Mosul Museum and Palmyra in Syria were also ravaged.
- Restoration Efforts:
- Archaeologists began restoration in 2018 but faced interruptions due to the COVID-19 pandemic, resuming in 2023.
- Over 35,000 fragments have been excavated, with 70% of collection, classification, and identification completed.
- Restoration involves meticulously reassembling artefacts like bas-reliefs, lamassus, and cuneiform-inscribed tablets.
- Challenges:
- The task is described as a "complex operation" with about a year of fieldwork remaining before full restoration begins.
- International Collaboration:
- Iraqi archaeologists are supported by the Academic Research Institute in Iraq and trained by the Smithsonian Institution, with funding from the United States.
- Global Heritage:
- Nimrud's artefacts, termed the "treasures of Mesopotamia," represent humanity's shared history spanning 3,000 years.



A.P. SET TO HOLD 3-DAY FLAMINGO FESTIVAL

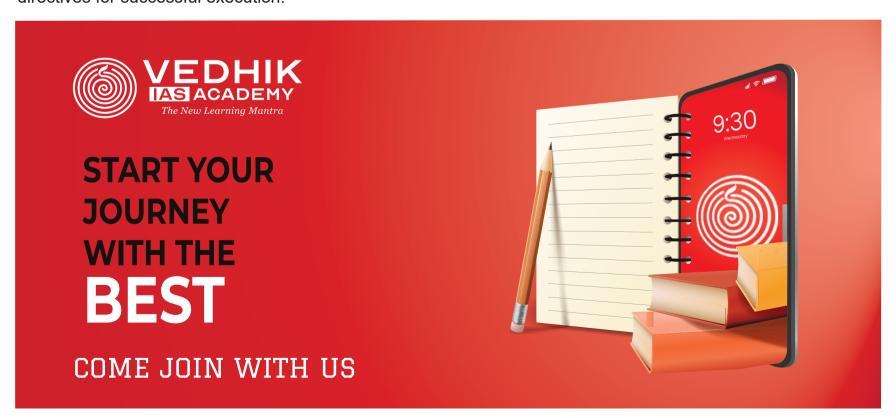
ECOLOGY AND ENVIRONMENT



Flamingo Festival 2025 – Key Highlights

- Dates and Location:
- Scheduled from January 18 to 20, 2025, at Sullurpeta, Tirupati district, Andhra Pradesh.
- Significance:
- Returns after a five-year gap; last held in 2020.
- Over 200 bird species expected during the season.
- Event Features:
- Conducted across five locations: Nelapattu, B.V. Palem, Atakanithippa, Sri City, and Sullurpeta.

- Activities include:
 - Eco-friendly biodiversity sessions at Sri City.
 - Birdwatching at Nelapattu and Atakanithippa.
 - Boating facility at B.V. Palem.
 - Cultural programmes and stalls at Government Junior College, Sullurpeta.
- Government Initiatives:
- Festival to be organised as a State-level event under Chief Minister N. Chandrababu Naidu's directive.
- Infrastructure developed using Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS).
- Local Focus:
- Priority for local residents in participation and addressing eco-sensitive zone issues.
- Official Supervision:
- o Site inspected by district Collector S. Venkateswar and officials from tourism and wildlife departments, with directives for successful execution.





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