



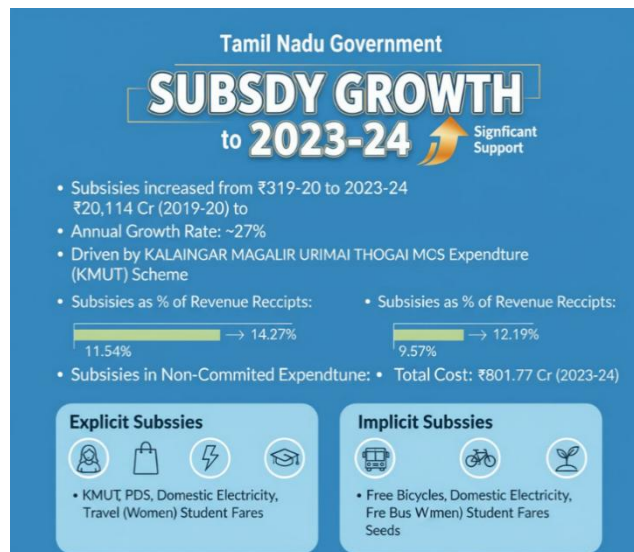
October - 23

TNPSC BITS

- ❖ IUCN Members have elected Indian wildlife conservationist Vivek Menon as the New Chair of the IUCN Species Survival Commission (SSC) for the 2025–2029 term.
- ❖ Nagaland has proposed Dzükou Valley as the state's official nomination under the national initiative Development of 50 Tourist Destinations of Global Standards.
- ❖ Union Minister of State for Science and Technology unveiled the curtain raiser for the India International Science Festival (IISF) 2025 in Chandigarh.
- ❖ Hyderabad mountaineer Bharath Thammineni became the first Indian to climb all nine accessible 8,000-meter peaks.
- ❖ The European Union (EU) and India conducted a first-of-its-kind counter-terrorism training to protect critical infrastructure and soft targets against emerging threats from unmanned aerial systems (UAS) or drones.
- ❖ Tarun Garg will become the first Indian Managing Director and CEO of Hyundai Motor India Limited (HMIL) from January 1, 2026.

TAMIL NADU NEWS

Subsidies rise in 2023–24



- ❖ Subsidies provided by the Tamil Nadu government increased from ₹20,114 crore in 2019–20 to ₹37,749 crore in 2023–24.

- ❖ The annual growth rate in subsidies was about 27%, largely due to the launch of the Kalaingar Magalir Urimai Thogai (KMUT) scheme.
- ❖ Subsidies as a share of revenue receipts rose from 11.54% to 14.27% over five years.
- ❖ As a share of revenue expenditure, subsidies grew from 9.57% to 12.19% during the same period.
- ❖ The share of subsidies within non-committed expenditure increased from 35.12% to 38.91%.
- ❖ Explicit subsidies include KMUT, PDS, subsidised domestic electricity, free bus travel for women, and student fare concessions.
- ❖ Implicit subsidies, such as free bicycles and subsidised seeds, cost the state ₹801.77 crore in 2023–24.

NATIONAL NEWS

Decline of Left-Wing Extremism in 2025



- ❖ The number of most affected districts by Left Wing Extremism (LWE) has reduced from 6 to 3, limited now to Bijapur, Sukma and Narayanpur in Chhattisgarh.
- ❖ The total number of LWE affected districts has decreased from 18 to 11 across India.
- ❖ In 2025, a record 312 LWE cadres were eliminated, including the General Secretary and 8 other senior leaders of the Communist Party of India (Maoist).

- ❖ In 2013, 126 districts reported LWE violence, which declined to just 18 districts by March 2025.
- ❖ The government aims to completely eradicate Left Wing Extremism by 31 March 2026.

Use of Green Crackers in Delhi-NCR

- ❖ On 15 October 2025, the Supreme Court permitted the sale and use of certified green crackers in Delhi and the National Capital Region (NCR) under regulated conditions.
- ❖ Only firecrackers with the NEERI (National Environmental Engineering Research Institute) from Nagpur stamp and scanner code were allowed for sale and use.
- ❖ The reintroduction of green crackers followed a Supreme Court order modifying the 2018 blanket ban, marking a shift to balance public health and tradition.
- ❖ Green crackers are designed to reduce emissions by about two-thirds compared to conventional crackers but are not zero-emission products.
- ❖ Three types of green crackers have been developed by NEERI are
 - SWAS (Safe Water Releasable),
 - STAR (Safe Thermite Cracker), and
 - SAFAL (Safe Minimal Aluminium).



Food Security in India 2025

- ❖ India leads in milk and millet production, and ranks second in fruits, vegetables, and fish output.

- ❖ India's rice fortification programme (Fortified rice includes iron, folic acid, and vitamin B12 to combat malnutrition) was completed under central schemes by March 2024.
- ❖ The National Food Security Act, 2013, covers over 78 crore people with subsidised foodgrains.
- ❖ The Pradhan Mantri Garib Kalyan Anna Yojana [PMGKAY] was extended till 2028 to ensure free foodgrains.



SITAA initiative

- ❖ The Unique Identification Authority of India (UIDAI) has launched Scheme for Innovation and Technology Association with Aadhaar (SITAA).
- ❖ This initiative is to promote innovation, indigenization, and co-development in the digital identity ecosystem.
- ❖ SITAA encourages startups, academia, and industry to collaborate with UIDAI for building secure and scalable identity technologies.
- ❖ MeitY Startup Hub and NASSCOM signed memoranda of understanding as strategic partners for SITAA.

- ❖ The scheme focuses on biometric devices, authentication frameworks, data privacy, artificial intelligence, and secure identity applications.

What is SITAA?

SITAA aims to promote indigenous, AI-driven technologies that ensure the security, scalability, and resilience of Aadhaar authentication.

UIDAI is collaborating with MeitY Startup Hub (MSH) and NASSCOM to provide mentorship, incubation, and industry partnerships.

Deadline for pilot proposals: **November 15, 2025.**

INTERNATIONAL NEWS

Euthanasia Law in Uruguay

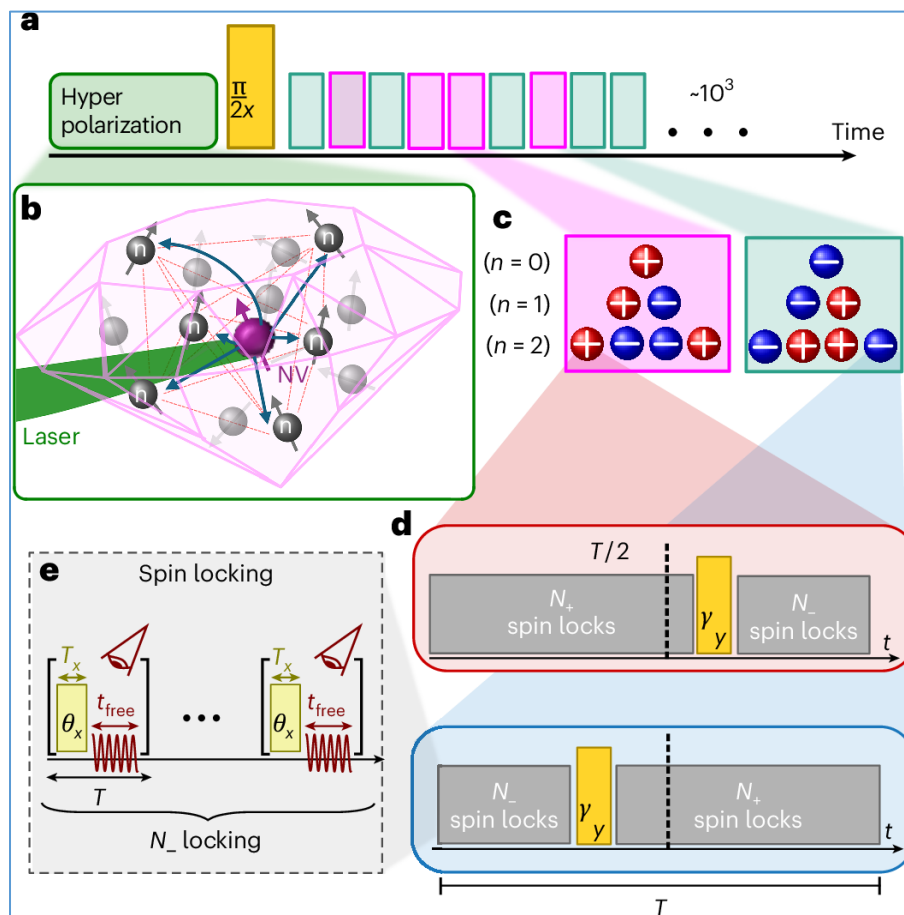


- ❖ Uruguay passes law legalizing euthanasia, becoming the first predominantly Catholic Latin American country to do so.

- ❖ The law allows euthanasia for patients suffering from incurable illnesses causing unbearable pain without requiring a terminal diagnosis or waiting period.
- ❖ Euthanasia must be performed by healthcare professionals, and patients must be mentally competent, confirmed by two doctors.
- ❖ Assisted suicide, where patients self-administer lethal medication, is not permitted under the law.

SCIENCE AND TECHNOLOGY NEWS

Time Rondeau Crystal



- ❖ Scientists have discovered a new phase of matter called a time rondeau crystal (TRC).
- ❖ Unlike solids or liquids, TRCs show order in time rather than in space.
- ❖ Time crystals exhibit perfect periodic motion, while TRCs combine long-term order with short-term randomness.

- ❖ The TRC was created using carbon-13 nuclei spins in diamond, controlled by microwave pulses with structured randomness.
- ❖ This new phase lasts several seconds and fades as the system heats up, showing metastability.

ISRO's Future Missions

- ❖ ISRO has set a target to land Indian astronauts on the moon by the year 2040.
- ❖ The first human spaceflight under the Gaganyaan mission is planned for 2027.
- ❖ Three uncrewed Gaganyaan missions will precede the crewed mission, starting in December 2025 with robot Vyommitra.
- ❖ India aims to set up its own space station, Bharatiya Antariksha Station, by 2035.
- ❖ ISRO has received approval for missions to Venus, Mars, Chandrayaan-4, and Chandrayaan-5.
- ❖ India became the 4th country to achieve successful docking and undocking in space through the SPADEX mission.
- ❖ ISRO completed its 100th launch from Sriharikota with the GSLV F15/NVS-02 (Geosynchronous Satellite Launch Vehicle F15/ Navigation Satellite-02) mission in 2025.



Anti-Radiation Drug

- ❖ India has gifted Prussian Blue capsules to Indonesia for treating Cesium-137 contamination.

- ❖ The capsules were sent in response to an urgent request from Indonesia's Ministry of Health.
- ❖ The Embassy of India in Jakarta facilitated rapid mobilization of the capsules.
- ❖ The aid supports Indonesia's response to potential nuclear or radiological emergencies.
- ❖ Cesium-137 is a radioactive isotope that poses serious health risks if not treated promptly.
- ❖ Prussian Blue binds radioactive Cesium-137 in the body and helps in its removal.

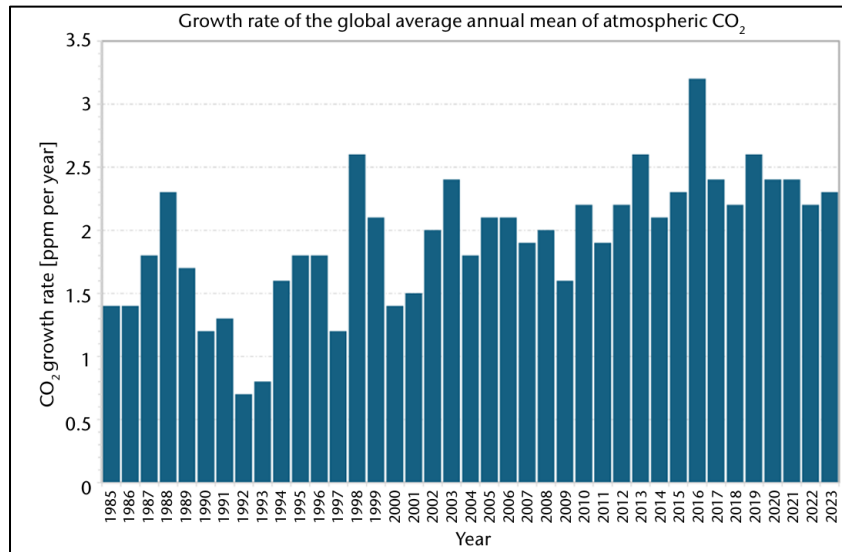


ENVIRONMENT NEWS

2024 - Hottest Year on Record

- ❖ World Meteorological Organisation report published in 21st annual Greenhouse Gas Bulletin.
- ❖ Global average temperature in 2024 reached 1.55 degrees Celsius above the 1850–1900 baseline.
- ❖ The fastest annual CO₂ rise since modern records began in 1957.

- ❖ Over 50 % of India's installed power capacity now comes from non-fossil sources.
- ❖ India contributes 7 % of global emissions but holds 18 percent of the global population.
- ❖ The report warns that feedback loops may push ecosystems past irreversible tipping points.
- ❖ The WMO (World Meteorological Organization) urged all nations to cut emissions rapidly before COP30.
- ❖ Scientists estimate a 45 percent CO₂ reduction by 2030 is needed to meet the 1.5 degrees target.



Lagocheilus hayaomiyazakii



- ❖ A new species of hairy snail named *Lagocheilus hayaomiyazakii* found in the semi-evergreen Tilarī forest of Kolhapur district, Maharashtra.

- ❖ The species name honours Hayao Miyazaki, a Japanese animator known for nature-themed films.
- ❖ It is the first record of the genus *Lagocheilus* in the northern Western Ghats.
- ❖ Now it is extending its known range by 540 kilometers northwards into the Indian Peninsula.

Six New Dragonflies



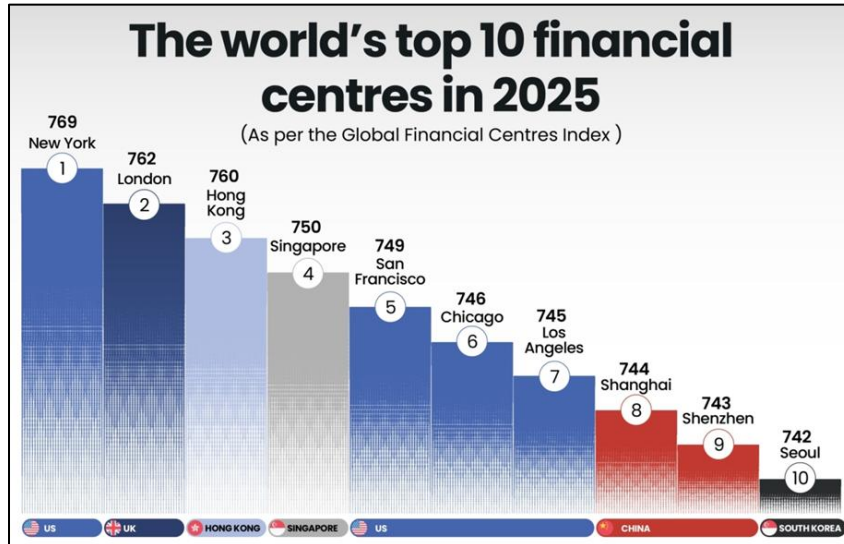
- ❖ A survey recorded 83 odonate species in Silent Valley National Park, Kerala.
- ❖ Six new species were added, raising the total from 103 to 109 species in the park.
- ❖ The newly found species are Long Legged Clubtail (*Merogomphus longistigma*), Fraser's Torrent Hawk (*Macromia irata*), Dark Daggerhead (*Macromidia donaldi*), Blue-necked Reedtail (*Protosticta mortonii*), Wayanad Torrent Dart (*Euphaea wayanadensis*), and Black and Yellow Bambootail (*Elatoneura tetrica*).
- ❖ Three species from the genus *Euphaea* indicate excellent freshwater quality.

REPORTS AND INDICES

Global Financial Centers Index 2025

- ❖ Gujarat International Finance Tec-City (GIFT City) climbed 3 places to 43rd position in the 38th edition of the Global Financial Centres Index (GFCI 38) 2025.

- ❖ GIFT City remains the only Indian financial centre in the top 15 of the Asia-Pacific regions.
- ❖ New York City (USA) leads the rankings, followed by London (UK) and Hong Kong (China) in second and third place.



State Mining Readiness Index 2025



- ❖ The Ministry of Mines released India's first State Mining Readiness Index (SMRI 2025).
- ❖ The State Mining Readiness Index (SMRI) benchmarks Indian states on mining reforms, focusing on non-coal minerals.
- ❖ It evaluates states on auction performance, early mine operationalisation, exploration thrust, and sustainable mining practices.

- ❖ States are categorized into mineral-rich, moderately endowed, and low-endowment groups for fair comparison.
- ❖ The index promotes transparency, efficiency, sustainable mining, and cooperative federalism in the mining sector.
- ❖ Top states in 2025 include Madhya Pradesh, Rajasthan, and Gujarat in the mineral-rich category.
- ❖ Goa, Uttar Pradesh, and Assam lead in the moderate resource category, while Punjab, Uttarakhand, and Tripura top the low-endowment group.

STATES' NEWS

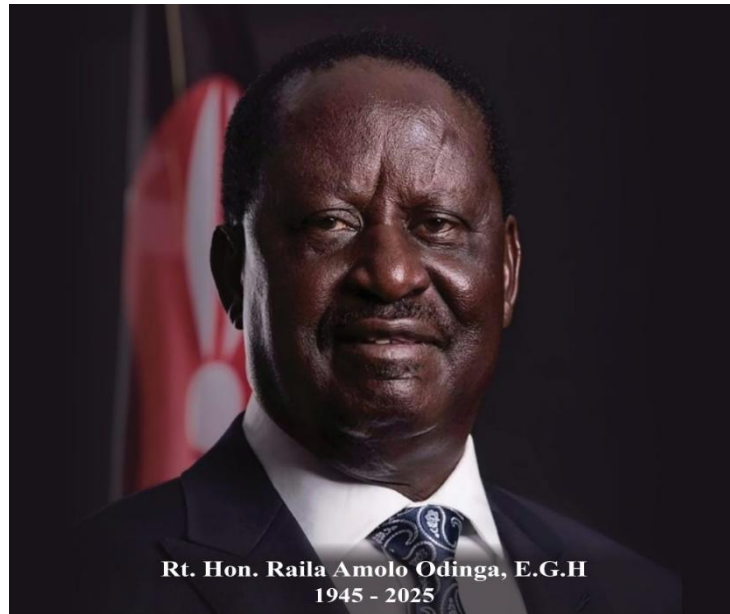
Project Trinetra



- ❖ The Akola police in Maharashtra launched Project Trinetra to prevent repeat crimes using artificial intelligence and data analytics.
- ❖ Trinetra stands for Targeted Risk-based Insights for Next-crime Estimation and Tactical Resource Allocation.
- ❖ The system uses machine learning to assign repeat offender risk scores based on conviction type, crime patterns, and location data.
- ❖ A real-time dashboard provides risk visualization at the police station, section, and regional levels for focused patrolling.
- ❖ The project includes ethical safeguards that avoid profiling based on caste, religion, or geography.
- ❖ Human judgment remains central, with AI predictions guiding but not replacing police decisions.

PERSONALITIES, AWARDS, AND EVENTS

Raila Amolo Odinga demise



- ❖ Former Kenyan Prime Minister Raila Amolo Odinga died at age 80 in Kerala, India.
- ❖ He served as the Prime Minister of Kenya from 2008 to 2013.
- ❖ Odinga ran for Kenya's presidency five times but was never elected president.
- ❖ Odinga played a key role in the 2007 power-sharing agreement that ended post-election violence.
- ❖ He served as a legislator for 15 years in the Kenyan Parliament.

FAO global award 2025

- ❖ The Sundarbans aquaculture model by the Nature Environment and Wildlife Society wins the Food and Agriculture Organization (FAO) global award.
- ❖ The model promotes mangrove-linked shrimp farming covering 5% to 30% mangrove area in ponds.
- ❖ It was implemented across 29.84 hectares involving 42 fish farmers in North and South 24 Parganas districts.
- ❖ The annual average net profit of farmers increased by over 100% due to reduced production costs.
- ❖ The award was given, during FAO's 80th anniversary celebrations in Rome, Italy.

Sundarbans Aquaculture Model Wins FAO Global Recognition

The Sustainable Aquaculture in Mangrove Ecosystems (SAIME) model, developed by Nature Environment and Wildlife Society has received Global Technical Recognition from the UN's Food and Agriculture Organization (FAO).



National Energy Conservation Awards 2025



- ❖ The Bureau of Energy Efficiency (BEE) under the Ministry of Power has invited applications for the 35th National Energy Conservation Awards (NECA) 2025.
- ❖ NECA recognizes outstanding contributions to energy efficiency and conservation across industries, buildings, transport, and institutions.
- ❖ The 2025 edition introduces a new category for digital content creators and social media influencers promoting energy conservation awareness.

