

VETRI IAS STUDY CIRCLE

Current Affairs

(A book for TNPSC Examination)

NOVEMBER 2025



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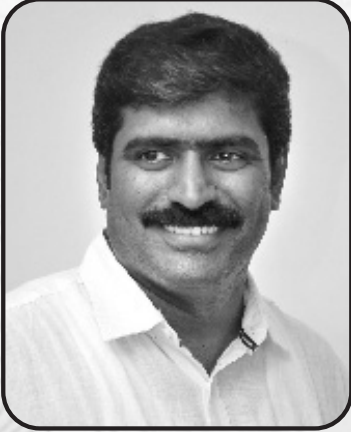
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Preface



M. SHUNMUGAM

Director

Vetrii IAS Study Circle.

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My Dear Aspirants,

Greetings to all of you! "What we think we become" Gautama Buddha. We all have dreams. To make dreams come into reality it takes a lot of determination, dedication, self discipline and continuous effort.

We at VETRII IAS Study Circle are committed to provide the right guidance, quality coaching and help every aspirants to achieve his or her life's cherished goal of becoming a civil servant.

The class room coaching at VETRII IAS Study Circle is meticulously planned to equip the aspirants with all the relevant facts and fundamentals of the subjects. Further the VETRII IAS Study Circle Study materials aim to support the candidate by providing the most relevant study material in a comprehensive manner.

We also thank other family members of Vetrii for making this effort a reality.

We wish the aspirants ALL THE VERY BEST for their journey in Civil Services !

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SCIENCE

GENERAL SCIENCE

Leptospirosis Infection

- Two deaths due to leptospirosis have been reported in Ernakulam district of Kerala.
- Early antibiotic treatment can prevent leptospirosis deaths
- Deaths often occur when patients seek medical help late or when diagnosis is delayed

What is leptospirosis?

- Leptospirosis is caused by a type of bacteria called *Leptospira*.
- It is a zoonotic disease, meaning it can infect humans from animals.
- The bacteria that cause leptospirosis are spread through the urine of infected animals, which can survive in soil or water for weeks to months.

Types of Leptospirosis

- **Anicteric Syndrome**
 - Anicteric syndrome is the initial stage of leptospirosis.
- **Icteric Syndrome**
 - If people recover and then get sick again, they may enter the second stage of leptospirosis.
 - This form is called icteric syndrome or Weil's disease.

LATEST INVENTIONS IN SCIENCE AND TECHNOLOGY

AI framework developed to simplify drug synthesis

- Researchers at the Wadhvani School of Artificial Intelligence and Data Science at

IIT-Madras and The Ohio State University developed the framework.

- The framework is designed to generate drug-like molecules that are easier to synthesise in a laboratory.
- The AI framework is called PURE – Policy-guided Unbiased Representations for Structure Constrained Molecular Generation.
- **Purpose and Function**
 - Designed to generate drug-like molecules that are easier to synthesise in laboratories.
 - Aims to simplify and accelerate the early stages of drug discovery.
- **Benefits**
 - Can reduce the time and cost of early-stage drug development, which often spans several years or decades and costs millions of dollars.
 - Has potential applications in combating drug resistance, particularly in cancer and infectious diseases.
- The findings were published in the Journal for Cheminformatics.

India's first 500 km Quantum Key Distribution (QKD) network

- A start-up supported under the **National Quantum Mission (NQM)** – QNu Labs Pvt. Ltd. – has successfully demonstrated India's first 500 km **Quantum Key Distribution(QKD)** network
- **Quantum Key Distribution (QKD)** is a secure communication technology that uses the laws of quantum physics to generate and exchange encryption keys between two parties.
- Unlike traditional encryption, it ensures that any attempt to intercept or observe

the key instantly alters the system, **making eavesdropping detectable.**

- **Developed by:** The Bengaluru-based quantum startup QNu Labs Pvt. Ltd., supported by the Department of Science and Technology (DST) under the National Quantum Mission (NQM).

BIRSA 101 Gene Therapy

- India has launched its first indigenous CRISPR-based gene therapy for Sickle Cell Disease, named BIRSA 101, marking a major milestone in affordable genomic medicine.
- The therapy is named "BIRSA 101", dedicated to the tribal freedom fighter Bhagwan Birsa Munda, whose 150th anniversary was recently observed.
- Developed by CSIR-Institute of Genomics & Integrative Biology (IGIB)
- BIRSA 101 uses CRISPR technology like "precise genetic surgery" to edit defective genes inside the patient's cells.
- It corrects the mutation responsible for producing sickle-shaped red blood cells, thereby enabling normal haemoglobin production.
- Once edited, the corrected stem cells are infused back into the patient, offering a potential one-time, and lifelong cure.

Key Features:

- Fully indigenous CRISPR platform (enFnCas9) engineered by IGIB.
- Low-cost alternative to global therapies costing crores.
- Developed under India's Atmanirbhar Bharat push for medical self-reliance.

- Backed by a public-private partnership ensuring scalability, safety, and regulatory readiness.

R21/Matrix-M malaria vaccine

- Gavi and UNICEF signed a new agreement to make the R21/Matrix-M malaria vaccine more accessible and affordable.
- UNICEF is the world's largest vaccine buyer, procuring nearly 3 billion doses annually.

WHO has prequalified two malaria vaccines:

- **R21/Matrix-M** - co-developed by University of Oxford + Serum Institute of India, using Novavax's Matrix-M adjuvant.
- **RTS,S/AS01** - developed by GSK, PATH and partners.

About GAVI the Vaccine Alliance

- It is an independent public-private global health partnership established in 2000.
- Its core mission is to improve access to new and underused vaccines for children in the world's poorest countries.
- **Headquarters:** Geneva, Switzerland.
- It brings together developing country and donor governments, the World Health Organization, UNICEF, the World Bank, the vaccine industry, research and technical agencies, civil society organizations, and private philanthropists.

Solaras S2 nano satellite Mission

- Grahaa Space, a Bengaluru-based spacetechnology startup, has received authorisation from IN-SPACe to launch its first nano satellite mission, Solaras S2.

- The mission is a technology demonstration, planned for launch by the end of November.
- The launch will happen from Alcântara Space Center (CEA) located in Brazil through the **Hanbit-Nano launch vehicle developed by Korea-based Innospace.**
- Supports India's goal to become a global aerospace hub under Make in India and Aatmanirbhar Bharat initiatives
- Capacity & Employment:
 - Up to 300 engine overhauls annually by 2035
 - Employ 1,000+ highly skilled Indian engineers and technicians

JUNO and INO

- Jiangmen Underground Neutrino Observatory (JUNO) (China) has been completed and has already released its first scientific results, marking major progress in determining neutrino mass ordering.
- India-based Neutrino Observatory (INO) (India) remains stalled due to prolonged delays.
- Both JUNO and INO were designed to study neutrinos – especially to determine the ordering of neutrino masses by observing how neutrinos oscillate as they travel through matter.
- India is the 3rd largest domestic aviation market globally.

Inland Shipping Management System

- IIT Madras has set up the first Inland Shipping Management System for ports.
- Researchers from IIT Madras, through its National Technology Centre for Ports, Waterways and Coasts (NTCPWC) have developed an Inland Shipping Management System for ports and brought it to use at the Kollam Vizhinjam International Port.
- **Objective:** To provide appropriate solutions to various challenges and fast track innovations. It has also been developed to mitigate other operational financial risks associated with dealing with private vendors.

About India-based Neutrino Observatory (INO):

- Jointly funded by the Department of Atomic Energy (DAE) and the Department of Science and Technology (DST).
- **Location:** Bodi West hills of Theni District of Tamil Nadu.

India's first global-level aircraft engine

- Prime Minister inaugurated India's first global-level aircraft engine MRO facility on 26 November 2025 in Hyderabad.
- The facility is named Safran Aircraft Engine Services India (SAESI) and was developed by Safran, a French aerospace giant.

Delay in Samudrayaan Mission

- Samudrayaan is India's first manned submersible dive, aiming to send a crew of three people in the MATSYA 6000 sphere to a depth of 6,000 meters into the ocean.
- The mission is considered **pivotal** to India's future exploration plans, particularly for mining precious metals from the high seas.
- A crucial final set of trials is delayed until mid-next year (originally scheduled for December

2024) due to a delay in the procurement of syntactic foam cladding.

- This specialized foam is essential as it provides the submersible with buoyancy, enabling it to float and withstand the immense pressure of the deep sea.

- It is being **developed in France** and tested in **Norway**.

- Delivery is hoped for by the end of the year (2025).

- **Development Agency:** The project is led by the National Institute of Ocean Technology (NIOT), Chennai, under the Ministry of Earth Sciences.

SPACE

ISRO launches GSAT-7R, India's heaviest communication satellite

- The **Indian Space Research Organisation (ISRO)** successfully launched the GSAT-7R (CMS-03), an advanced communication satellite for the Indian Navy, from the Satish Dhawan Space Centre, Sriharikota, on 02.10.2025.
- The mission used the **LVM3-M5**, India's most powerful launch vehicle.
- **GSAT-7R is India's heaviest indigenously built communication satellite**, weighing approximately 4,400 kg.
- The LVM3 rocket demonstrated its capacity to routinely launch four-tonne-plus satellites to Geosynchronous Transfer Orbit (GTO).
- The satellite features state-of-the-art indigenous components and advanced payloads supporting voice, data, and video links.

- The mission marks a major achievement in India's self-reliance in space technology under the Atmanirbhar Bharat initiative.

- This success directly contributes to ISRO's Gaganyaan programme, India's upcoming human spaceflight mission, which will use an evolved variant of LVM3.

Strategic Significance

- The satellite will enhance secure telecommunication coverage for the **Indian Navy across the Indian Ocean Region (IOR)**.

- It ensures seamless connectivity between ships, submarines, aircraft, and Maritime Operations Centres.

- GSAT-7R will strengthen the Navy's **maritime domain awareness and strategic communication capabilities**.

First PSLV made by private firms

- The first Polar Satellite Launch Vehicle (PSLV) built by a private consortium led by Hindustan Aeronautics Limited (HAL) and Larsen & Toubro (L&T) will be launched in February 2026.

- This marks the first time a PSLV rocket has been developed entirely by private industry under ISRO's supervision.

- About **80%-85% of the PSLV systems** are developed by private industries.

- Around 450 Indian industries are currently contributing to India's space programme.

- There are over 330 Indian space start-ups active in the sector.

Recent ISRO Achievement

- On **November 2, 2025**, ISRO successfully placed its heaviest communication satellite CMS-03 into orbit using the **LVM-3 M5 ("Bahubali") rocket**.

- About **80–85%** of the systems in this mission were also **supplied by Indian industries**, showcasing the **strong private sector role**.

Aditya-L1 solar mission's Visible Emission Line Coronagraph (VELC) payload

- Scientists from the Indian Institute of Astrophysics (IIA) and NASA made the first-ever spectroscopic observations of a Coronal Mass Ejection (CME) in the visible wavelength range.
- The observations were made using the Visible Emission Line Coronagraph (VELC) — a major payload aboard Aditya-L1, India's first space-based solar observatory.
- These observations are the closest to the Sun's surface ever made in visible light using a space coronagraph.

Advantages of Aditya-L1

- Aditya-L1 is positioned at the Sun-Earth Lagrangian Point L1, where the Sun never sets — enabling continuous 24-hour observation.
- The VELC allows scientists to study CMEs very close to the Sun's visible surface, offering unique insights into their early-stage behaviour.

Scientific Significance

- Provides crucial data on mass, energy, and material loss from the Sun during CMEs.
- Helps in understanding space weather phenomena that can affect Earth's satellites and communications.
- Marks a **major milestone for VELC and Indian solar research**, as such near-Sun visible spectroscopy was never achieved before.

ISRO's CE20 cryogenic engine

- ISRO successfully demonstrated a **bootstrap mode start test on the CE20 cryogenic engine**, which powers the **upper stage of LVM3**.
- This achievement is a major step toward enhancing restart capability and mission flexibility for future **LVM3 flights**.
- The CE20 engine is already qualified for **19–22 tonne thrust, single-start operation** and for **Gaganyaan** missions.
- Bootstrap mode start allows the engine to reach steady operation without external start-up assistance, making it crucial for multi-orbit missions.

Skyroot's First Orbital Rocket

- Prime Minister Narendra Modi inaugurated Skyroot's Infinity Campus in Hyderabad via video conference and unveiled the spacetech startup's first orbital rocket, Vikram-I.
 - Vikram-I is scheduled to debut in early 2026, aiming at the small-satellite market amid a projected \$77 billion Indian space economy by 2030.
 - This highlights India's progress in space technology and the government's support for youth research opportunities, exemplified by creating the National Research Foundation.
 - Prime Minister mentioned that more than 300 space startups are contributing to India's space future.
- ### **Skyroot Aerospace's New Infinity Campus**
- The new facility spans 2,00,000 square feet and is designed for designing, developing, integrating, and testing multiple launch vehicles.

- It can produce one orbital rocket per month.
- Skyroot Aerospace, established by IIT alumni Pawan Kumar Chandana and Naga Bharath Daka, is a pivotal player in India's private space sector.

which is crucial for both ISRO's S-Band and NASA's L-Band Synthetic Aperture Radar (SAR) Payload.

Vikram-I Rocket

- Named after Vikram Sarabhai, the Vikram-I is India's private orbital-class launch vehicle.
- It stands 20 meters tall, 1.7 meters in diameter, and produces 1,200 kN of thrust.
- Emphasizes simplicity, reliability, and rapid launch capabilities within 24 hours from any location.

Chandrayaan-4 Mission

- ISRO Chairman, V. Narayanan, announced plans to launch the Chandrayaan-4 mission by 2028.
- The mission aims to land a rover on the Moon, collect samples, and bring them back to Earth for experiments – India's first sample-return lunar mission.
- International Collaboration: Japan has partnered with India for this mission.

NISAR Satellite Enters Science Phase

- NISAR (NASA-ISRO Synthetic Aperture Radar) satellite has entered its final science phase, ISRO announced.

Major design upgrades compared to Chandrayaan-3:

- Lander weight: 6,800 kg (vs. 1,600 kg in Chandrayaan-3)
- Rover weight: 350 kg (vs. 25 kg earlier)

About NISAR

- The satellite, launched in July, has officially entered the final science phase, announced by ISRO.
- First joint Earth observation mission between ISRO and NASA.
- Provides all-weather, day-and-night data for a wide range of applications.
- Five-year mission: phases include launch, deployment, commissioning, and science.
- Science phase involves maintaining science orbit, manoeuvres to avoid observation conflicts, and extensive calibration and validation.
- **Key Component:** A 12-metre diameter antenna reflector was deployed post-launch,

Future ISRO Plans

- ISRO is building a 52-tonne space station, targeted for completion by 2035.
- A manned mission to the Moon is planned for 2040.
- A new heavy-lift rocket, as tall as a 40-storey building, is under construction for future missions.

Current Satellite Capabilities

- India currently has 57 satellites in orbit.
- They support: broadcasting, telecom, tele-education, telemedicine, earth observation, disaster management, real-time train tracking, and fisheries monitoring.

GEOGRAPHY

PHYSICAL GEOGRAPHY

Meghadhatu Dam Project

- The project is located in Ramanagaram district of Karnataka.

Objective of Meghadhatu Dam Project

- The project aims to construct a dam and reservoir on the Cauvery River to supply drinking water to Bangalore and recharge groundwater,
- It also aims to generate 400 MW of electricity.
- The Karnataka government approved the project in 2017.

Cauvery River

- It is the third largest river in South India after Godavari and Krishna.
- It is the largest river in Tamil Nadu,
- It is called 'Ponni' in Tamil.
- The Thalakkaveri originates in the Brahmagiri range of the Western Ghats in Karnataka, Kodagu district, flows through Tamil Nadu and empties into the Bay of Bengal via Pondicherry.

Tributaries

- Harangi, Hemavati, Kabini, Bhavani, Lakshmana, Tirtha, Noyyal, Arkavati

Fujiwhara Effect

- Two potential cyclonic storms are forming in the Bay of Bengal, with global forecast models indicating a possible Fujiwhara interaction between them.

About Fujiwhara Effect:

- It is a rare meteorological phenomenon where two nearby cyclonic systems begin to rotate around a common centre due to interaction of their wind circulations.
- Identified by Sakuhei Fujiwhara (1921), it occurs mostly in the tropical cyclone belt when storms are within ~1,400 km of each other.

Conditions necessary for the effect to occur:

- Two tropical cyclones formed around the same time in the same ocean region.
- The distance between the centres (or eyes) of the cyclones is less than 1,400 km.
- An intensity that could vary between a depression (wind speed under 63 km/hour) and a super typhoon (wind speed over 209 km/hour).

Hayli Gubbi Volcano

- A massive volcanic ash cloud from Ethiopia's Hayli Gubbi volcano—which erupted after nearly 10,000 years—has drifted toward India, raising concerns over air quality and aviation.
- Hayli Gubbi is a shield volcano in Ethiopia's Afar Region, known for broad, gently sloping volcanic structures formed by low-viscosity basaltic lava typical of the East African Rift system.

Impact on India:

- **Air Quality:**
 - Ash is at high altitudes, limiting ground-level mixing; Delhi is unlikely to see major AQI deterioration.
 - Skies may appear hazy/darker but pollutants will remain mostly aloft.

▪ Health & Climate:

- SO₂ can contribute to acid rain regionally, but concentrations over India appear limited.
- Volcanic particles may briefly affect solar radiation and visibility.

Ningaloo Reef

- A new survey finds nearly 70% of corals at UNESCO-listed Ningaloo Reef have died.

About Ningaloo Reef

- It is located on Western Australia's remote coast along the East Indian Ocean.
- It is Australia's largest fringing coral reef, extending across 300 kilometres of coastline.
- It is one of the world's most pristine, longest, and largest coral reefs.
- However, it is unusually narrow and covers an area of about 50 sq.km.
- It is a UNESCO World Heritage Site.

Abujhmadiya Tribe

- Recently, the Bastar Olympics' tournament has seen increasing participation of the Abujhmadiya tribe

About Abujhmadiya Tribe

- They are an ancestral and patriarchal tribe primarily residing in the Abujmarh region in Chhattisgarh, India.
- Abujhmadiya tribal community is a sub-group of Gond tribe of Central India region.
- It is a Particularly Vulnerable Tribal Group (PVTG).
- **Language:** They speak Abuj Maria, Hindi or Chhattisgarhi.

▪ Festivals:

- **Saja Festival:** A traditional festival celebrating agricultural success and honoring nature spirits.
- **Bastar Dussehra:** Which features traditional dances, rituals, and community gatherings.

ENVIRONMENT AND ECOLOGY

New freshwater crab genus identified

- Scientists have identified a new genus and species of freshwater crab from the Shevaroy Hills, Yercaud (Salem district, Tamil Nadu).
- The newly described genus is Patithelphusa, and the species is Patithelphusa yercaudensis.
- The discovery was made during a zoological survey by researchers from the Zoological Survey of India (ZSI), Kolkata, and Pukyong National University, South Korea.
- The genus Patithelphusa is named in honour of Sameer Kumar Pati, a distinguished Indian taxonomist known for his work on freshwater crabs.
- Distinct features: broader carapace, triangular lobes, and unique male reproductive structures, differing from related genera like Baratha, Vanni, and Vela.
- The species' evolution was likely influenced by topographical isolation of the Shevaroy Hills, separated by deep valleys and the Cauvery River system, which limited gene flow.
- Highlights the Shevaroy Hills as a potential refuge for endemic species in the Eastern Ghats.

- With this discovery, India now records 112 freshwater crab species, belonging to 31 genera under the family Gecarcinucidae.
- India contributes nearly 10% of the world's freshwater crab diversity, with many species endemic to small habitats.
- States like **Maharashtra, Karnataka, Andhra Pradesh** and **Tamil Nadu** have experimented with cloud seeding for drought relief.

Significance:

- First cloud seeding attempt in **Delhi** since **1972**.
- **First-ever trial** aimed at pollution control rather than rainfall augmentation.
- Highlights the experimental and uncertain nature of cloud seeding under Indian climatic conditions.

Cloud Seeding

- On October 28, 2025, IIT-Kanpur conducted a cloud seeding experiment over New Delhi using a Cessna aircraft, aiming to reduce air pollution through artificial rain.
- The team dispersed 10 kg of a mixture of silver iodide (20%), rock salt, and common salt, fired into the clouds using flares manufactured in Sivakasi, Tamil Nadu.
- IMD shared general weather inputs but did not recommend proceeding due to insufficient cloud moisture (<15%).

About Cloud Seeding

- Cloud seeding is a weather modification technology that artificially stimulates rainfall by spraying chemical substances into the air that serve as cloud condensation nuclei.
- It involves dispersing substances such as silver iodide, potassium iodide, sodium chloride, or dry ice (solid CO₂) into clouds using aircraft.
- **Weather Suitability:** It requires tall, moist clouds and low wind conditions to operate effectively.
- **Pollution Removal:** Artificial rain reduces particulate matter by washing pollutants out of the air.
- The India's Ministry of Earth Sciences (MoES) has conducted several studies under the Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX).

Lucknow declared UNESCO 'Creative City of Gastronomy'

- **Lucknow** has been officially declared a UNESCO Creative City of Gastronomy.
- Announcement made during the **43rd Session of the UNESCO General Conference held in Uzbekistan**.
- **Cultural Significance:** Recognition celebrates **Lucknow's centuries-old Awadhi cuisine**, its living food traditions, and inclusive culinary heritage.
- With Lucknow's inclusion in 2025, the total rises to nine Indian cities in the network.

City	Category	Year of
Jaipur	Crafts & Folk Art	2015
Varanasi	Music	2015
Chennai	Music	2017
Mumbai	Film	2019
Hyderabad	Gastronomy	2019
Srinagar	Crafts & Folk Art	2021
Gwalior	Music	2023
Kozhikode	Literature	2023
Lucknow	Gastronomy	2025

Pilia malenadu - New Species of Jumping Spider

- A new species of jumping spider belonging to the Pilia genus has been discovered in Madhugundi village, Mudigere taluk, Chikkamagaluru, Karnataka.
- The species has been named "Pilia malenadu", after the region where it was found.
- The discovery has been published in Zootaxa, an international scientific journal.
- This is significant because the last Pilia species was discovered 123 years ago (in 1902) in Kerala.
- Researchers found both male and female spiders for the first time in this genus.
- A total of 24 individuals were identified: 17 males, 3 females, and 4 juveniles.
- The discovery was made by Ajit Padiyar, a naturalist at a resort in Madhugundi.
- The spiders were found only on two plant species – Memecylon umbellatum and Memecylon malabaricum.
- The finding highlights a healthy ecosystem in the Western Ghats foothills and the need for habitat conservation.
- Madhugundi is also the site where the saffron reedtail damselfly, a rare species endemic to the Western Ghats, was found earlier.

CITES

- A **CITES committee** (Convention on International Trade in Endangered Species of Wild Fauna and Flora) has **recommended India temporarily stop issuing import permits** for endangered animals.

- The pause applies to zoos, wildlife rescue, and rehabilitation centres until India reviews its import practices and ensures full compliance with CITES rules.

About CITES

- CITES, also known as the **Washington Convention**, was signed on **3rd March 1973** during the World Wildlife Conference and came into force on 1st July 1975 (completed 50 years).
- **Voluntary international agreement between governments ensuring international trade in specimens of wild animals and plants** does not threaten their survival.
- It subjects **international trade to certain controls** covering all import, export, re-export, through a licensing system.
- **Secretariat:** Administered by the UN Environment Programme (UNEP) at Geneva, Switzerland.
- **IUCN** provides **scientific and technical services** to the CITES Secretariat.
- The Convention now has 185 Parties, including India (a member since 1976) and the European Union.

Karaiyavetti Bird Sanctuary

- Karaiyavetti Bird Sanctuary was notified by the Ministry of Environment and Forests under Section 18(1) of the Wildlife Protection Act, 1972, covering an area of 453.71 hectares.
- The sanctuary is essentially an irrigation lake.
- The lake receives water from the Mettur reservoir from September onwards.
- The sanctuary is one of the most important freshwater lakes in Tamil Nadu for migratory

waterfowl. It is also one of the largest lakes in the state.

- The lake has been recorded as the site of the highest waterfowl migration in the state.
- Out of the 188 bird species in the sanctuary, 82 species are waterfowl. The endangered bar-headed duck is one of the major visitors to the lake.

BEACON INDIA Initiative

- **Initiative Name:** BEACON INDIA (Building Ecosystem for Accelerating Contribution to NDC through Climate Innovation Incubation for India).
- The initiative will be anchored by **TREC-STEP** (Tiruchi Regional Engineering College Science and Technology Entrepreneurs Park).
- It will establish a **climate** innovation incubation and scale-up ecosystem – the first of its kind in India.
- The program is scheduled to be officially launched in early 2026.
- Aim to reduce or avoid 1.08 million tonnes of CO₂ emissions.
- Encourage start-ups in climate adaptation and green technology sectors, rather than conventional tech fields like e-commerce or fintech.

Tropical Forests Forever Facility (TFFF)

- India is set to join the **Tropical Forest Forever Facility (TFFF)** – a new nature financing model that rewards countries for protecting forests.
- The initiative aims to promote sustainable forest conservation through annual payments of \$4 per hectare of forest protected.

▪ **Funding Mechanism:** Operated by the **Tropical Forest Investment Facility (TFIF)**.

- Investors' initial contributions are invested, and the returns are used to both reward forest-protecting nations and repay investors in full – making it a budget-neutral model.

India's Climate Achievements

- India reduced the emission intensity of GDP by 36% between 2005 and 2020, and this trend continues.
- India expanded its forest and tree cover, creating an additional carbon sink of 2.29 billion tonnes of CO₂ equivalent between 2005 and 2021.
- Non-fossil power now accounts for over 50% of India's total installed capacity, enabling the country to reach its revised NDC target five years ahead of schedule.

Significance

- The TFFF represents a **new financial mechanism** for rewarding forest conservation without burdening national budgets.
- India's participation strengthens its commitment to climate action ahead of **COP30 in Belém, Brazil**.

About Tropical Forests Forever Facility (TFFF)

- **Initiative by:** Brazil
- It is a global fund formed on the side-lines of COP-30 in Belem, Brazil for providing a long-term finance to make forest preservation a viable economic model.
- **Objectives:** To incentivize the conservation and expansion of tropical forests by making annual payments to Tropical Forest Countries (TFCs) that maintain their standing forest.

- The facility seeks to mobilize approximately \$125 billion through a mix of public (20-25%) and private investment (70-80%).
- **Eligibility:** The TFFF could support over 70 TFCs that meet certain criteria, such as annual deforestation rate below 0.5%; fair resource allocation to Indigenous Peoples and Local Communities, etc.

Terminalia arjuna Trees

- Researchers from the Advanced Institute for Wildlife Conservation (Chennai) and the Tamil Nadu Forest Department enumerated 10,127 Terminalia arjuna (neer maruthu) trees in the Moyar Valley of the Mudumalai Tiger Reserve (MTR).
- The study was funded by the Mudumalai Tiger Conservation Foundation, Udthagamandalam (2024).
- Terminalia arjuna is a keystone species in the riparian forest ecosystem.
- The Terminalia arjuna trees serve as the primary nesting site for the Critically Endangered White-rumped vulture.

COP 30 begins in Brazil

- The UN Climate Conference to accelerate efforts to prevent global climate change has begun in the city of Belém, located in the Amazon region of Brazil.
- The United States is the world's largest oil producer and the second largest emitter of greenhouse gases, including carbon dioxide.
- Under the 2015 Paris Climate Agreement, countries including India committed to limiting greenhouse gas emissions to ensure that the global temperature rise remains below 1.5°C above pre-industrial levels.

Unprecedented carbon dioxide emissions

- India has emitted carbon dioxide (CO₂) at an unprecedented level and the power grid has become more carbon intensive, said Girish Palve, Assistant Director, Tamil Nadu Climate Change Project.
- A seminar on sustainable energy transition was held in Guindy, Chennai, on behalf of GSH India Limited.
- The seminar was held under the theme 'Encouraging Green Engineering'
- The projects of the Indian Energy Efficiency Bureau have avoided 1.29 billion tonnes of carbon dioxide emissions from 2017 to 2023, saving Rs. 7.6 lakh crore.
- According to a report released by the United Nations, India has emitted 57,700 million tonnes of carbon dioxide in 2024, its highest ever.
- This is 7 percent more than the previous year.
- Coal-fired thermal power plants are responsible for more than 40 percent of this.

- Non-fossil energy capacity in the country has now reached half. However, our power infrastructure has become significantly more carbon intensive.

- The amount of carbon dioxide emitted per unit of electricity has increased from 0.703 tonnes to 0.727 tonnes. This is because coal-fired plants continue to operate at 65 to 90 percent, while solar and wind power plants operate at only 15 to 25 percent.

Green tugboat

- As part of the wider initiative of the Ministry of Ports, Shipping and Waterways to shift to

diesel-powered tugboats at major ports in India, the Chennai Port Authority is set to get its first “green tugboat” to reduce greenhouse gas emissions.

Key features of the development:

- **Target** - The primary objective is to reduce air pollution and achieve the government’s target of reducing emissions from port vessels by 30% by 2030
- **Green tugboat specifications** - Chennai Port plans to procure a green tugboat powered by clean fuels such as ammonia, hydrogen or methanol, which will significantly reduce emissions compared to traditional diesel tugboats
- **Procurement process** - The Port Authority has floated bids to select a supplier to supply, operate and maintain the green tugboat for 15 years.
- **Other Ports Involved** - Many major Indian ports like Jawaharlal Nehru Port, Deendayal Port, VO Chidambaranar Port and Paradeep Port have started the process of purchasing green tugboats.

Amur Vulture-Long-Distance Bird Species

- **Context:** The Amur Vulture from Manipur completed an exceptional 5,600 km non-stop journey over six days.
- The Wildlife Institute of India (WII) has launched a special tracking project to monitor their long-distance migration.
- As part of the project, three vultures – Appabang, Alang, and Ahu – were tagged with radio transmitters on November 11.

About Amur Vulture

- They are small and agile birds (raptors) locally

known as ‘Kahuaipuina’ in Manipur and ‘Molulem’ in Nagaland (Amur Falcon capital of the world).

- Their distinctive features include dark plumage, white wing linings, and reddish-orange eyes and feet.

Centre for Research on Energy and Clean Air (CREA)'s Study Report

- A new analysis shows that 60% of India’s districts (447 out of 749) experience year-round exposure to unhealthy levels of PM2.5 air pollution, not just in winter.
 - None of the districts met the WHO air quality guideline of 5 µg/m³ for PM2.5.
 - India’s own limit is 40 µg/m³, which is eight times higher.
 - Most polluted regions: Delhi (11 districts) and Assam (11 districts) together account for almost half of the top 50 most polluted districts.
 - Cleaner regions: Majority of districts in Andhra Pradesh, Telangana, Kerala, Sikkim, Goa, Karnataka, and Tamil Nadu fall within national safety limits.
 - This highlights a clear pollution divide: northern and eastern States are hotspots, while southern and coastal regions remain relatively cleaner.
- #### **Seasonal patterns:**
- Winter (Dec–Feb): 82% of districts (616 of 749) exceed national standards due to increased emissions and stagnant weather.
 - Monsoon (June–Sept): 90% of districts (675 of 749) show pollution levels within safe limits due to rain and atmospheric cleansing.

INDIAN POLITY

Right to Information Act

- The Right to Information Act, enacted by the Parliament of India, came into force on 12 October 2005.
- **Objective:** To empower citizens, promote transparency and accountability in the functioning of government, curb corruption and make our democracy truly work for the people.

State Information Commission

- The State Information Commission shall consist of
 - The Chief Information Commissioner of the State. Other Information Commissioners (not exceeding 10 Commissioners) as may be required.
- The Chief Information Commissioner of the State and other Commissioners shall be appointed by the Governor on the recommendation of a Selection Committee. The Selection Committee shall consist of
 - The Chief Minister (Chairman of the Selection Committee)
 - The Leader of the Opposition in the State Legislative Assembly
 - A Cabinet Minister nominated by the Chief Minister.

Special Intensive Revision (SIR) of Electoral Rolls

- The Election Commission of India (ECI) has started the enumeration phase of the Special Intensive Revision (SIR) of electoral rolls.

- The exercise began on **November 4, 2025**. The Constitution and the **Representation of the People Act, 1950** empower the EC to conduct both **SSR and SIR**.

Coverage

- It will cover 12 States and Union Territories:
 - Tamil Nadu, West Bengal, Kerala, Uttar Pradesh, Madhya Pradesh, Rajasthan, Chhattisgarh, Goa, Gujarat, Puducherry, Andaman & Nicobar Islands, and Lakshadweep.
- Nearly 51 crore voters will be covered.

Upcoming Elections

- Among these, Tamil Nadu, Kerala, West Bengal, and Puducherry are scheduled for Assembly elections in 2026.

Previous Exercise

- The first round of the clean-up was done in Bihar earlier this year (2025), resulting in the deletion of over 68 lakh names from electoral rolls.
- It has already been done eight times between 1951 and 2004.
- The last SIR was carried out 21 years ago, during 2002–2004.
- In Tamil Nadu, the last SIR was in 2002 (for 197 constituencies) and 2005 (for the remaining 37 constituencies).

SIR 2.0 – New Features / Reforms

- Based on lessons from the Bihar exercise.
- Key directive: No documents will be collected from electors during the enumeration phase.
- Enhanced mapping of current electors to ensure accuracy.

Two Apps for Digital Census 2027

- Registrar-General and Census Commissioner of India Launches Two Apps for Digital Census 2027
- **Digital Layout Map (DLM) app**
 - To digitally create and geo-tag all structures within the designated Houselisting Blocks (HLBs), replacing the manual drawing of notional sketches used in previous Censuses.
- **Census 2027 - Houselist App:**
 - To modernize and streamline the data collection process for the first phase of the Census: the House Listing and Housing Operations (HLO).
- India's first digital Census will be conducted in 2027.
- Marks a shift from paper-based to fully digital data collection.
- Represents a historic transition for the 16th Census of India to digital mode.

The National Organ and Tissue Transplant Organisation (NOTTO)

- The National Organ and Tissue Transplant Organisation (NOTTO) has urged States and Union Territories to train first responders – such as police personnel, ambulance drivers, emergency medical technicians, and paramedics.
- According to the Ministry of Road Transport & Highways' report "Road Accidents in India 2023", around 1.7 lakh people were killed in road accidents in 2023.

About National Organ and Tissue Transplant

Organisation (NOTTO)

- It is a national-level organization set up under the Directorate General of Health Services, Ministry of Health and Family Welfare in New Delhi.
- The establishment of NOTTO is mandated as per the Transplantation of human Organs and Tissues (Amendment) Act of 2011.
- It functions as the apex centre for all India activities of coordination and networking for:
 - procurement and distribution of organs and tissues; and
 - Registry of Organs and Tissues Donation and Transplantation in the country.

India AI Governance Guidelines

- On November 5, 2025, the Ministry of Electronics and Information Technology (MeitY) released the India AI Governance Guidelines, a 66-page document to regulate and promote AI in India.
- The move precedes the AI Impact Summit 2026 (to be hosted by India in New Delhi).

Objectives

- To create a consistent national framework for regulating and promoting AI.
- To harness AI for inclusive development and competitiveness, while mitigating societal and individual risks.
- Reflects India's stance as the world's 2nd largest user of Large Language Models (LLMs) after the U.S.

Key features in the guidelines:

- **Seven Sutras (principles):** Trust; People First; Innovation over Restraint; Fairness & Equity; Accountability; Understandable by Design; Safety, Resilience & Sustainability.
- **Six Pillars:** Infrastructure; Capacity Building; Policy & Regulation; Risk Mitigation; Accountability; Institutions.
- **Institutional architecture:** AI Governance Group (AIGG), supported by a Technology & Policy Expert Committee (TPEC); AI Safety Institute (AISl) for testing, standards, and safety R&D.

Digital Personal Data Protection Act

- The central government has notified the Digital Personal Data Protection (DPDP) Act, 2023, which addresses the need for a law to protect the data privacy of Indian citizens.
- The DPDP Rules, 2025 are a significant step in line with the Supreme Court's 2017 K.S. Puttaswamy v. Union of India judgment, which affirmed the right to privacy.
- The law, passed by Parliament in August 2023, requires companies to protect the digital data of Indian citizens,
- It contains exemptions for "the state and its instrumentalities" and imposes an anticipatory penalty on companies that violate these obligations.
- In August 2017, the Supreme Court ruled that privacy is a fundamental right
- July 2018: Retired Justice P.N. The committee headed by Srikrishna submitted its decision to remove the obligation of government bodies

to provide "personal information" if the public interest outweighs the privacy rights of a public official.

- The amendment comes into force from 14.11.25. However, "data fiduciaries", who collect and use personal data, will have to comply with certain rules till November 2026.

Report and draft Data Protection Bill

- December 2022: New draft bill prepared by IT Ministry
- August 2023: Parliament passes Digital Personal Data Protection Act, 2023
- January 2025: Draft rules for implementing the Act came into force.

Personal Data Protection Act Rules Released

- The Union Ministry of Electronics and Information Technology has released the Digital Personal Data Protection Act Rules, 2025.
- The rules provide for citizens to have control over their data and ensure that that data is not misused.
- These rules will be implemented in a phased manner over a period of 12 to 18 months and will come into full force after 18 months.
- The rules are being notified as the Personal Data Protection Act, 2023 comes into full force.
- According to these rules, data controllers (social media platforms like Facebook, Google, and other social media platforms) will have to publish a notice clearly explaining why a person's personal data is being processed and used, and to obtain consent from the person concerned in a simple manner.

- The Data Protection Board will act as a fully-fledged agency to help track the progress of the complaints.
- Individuals will have the power to withdraw their consent to the use of data at any time under these regulations.
- It is expected that these regulations will help the public avoid calls made with the intention of advertising or fraud and prevent their personal data, video and voice recordings from being obtained without permission in any way.

Lokayukta Member Appointment

- Former Madras High Court Judge R. Hemalatha has been appointed as the Judicial Member of the Lokayukta.
- Governor R.N. Ravi has issued an order in this regard.
- As a Judicial Member, he will hold office for a period of five years.
- In 1966, the Administrative Reforms Commission (ARC) headed by Morarji Desai was set up to recommend institutions for addressing citizens' grievances against administrative errors and abuses by the Union, States, and other authorities.

Tamil Nadu Lokayukta Act, 2018

- The Tamil Nadu Legislative Assembly has passed the Tamil Nadu Lokayukta Act, 2018 under section 63 of the Lokpal and Lokayuktas Act, 2013.
- This Act came into force on 13.11.2018.
- The Tamil Nadu Lokayukta is an independent quasi-judicial body constituted under the above Act.
- **Aim:** To investigate allegations of corruption against certain categories of government

servants and matters connected therewith or incidental thereto.

SC strikes down provisions of Tribunal Reforms Act

- The Supreme Court (SC) struck down provisions of the Tribunal Reforms Act of 2021.
- The Act was designed to alter the tribunal system and give the Union government a dominant role in the appointments, functioning, and fixing of salaries of chairpersons and members.
- Reason for Striking Down: The SC ruled that the law undermined constitutional requirements such as independence, impartiality, and effective adjudication by enabling executive control over appointments, curtailing tenure arbitrarily, and weakening institutional autonomy.
- Chief Justice of India B.R. Gavai stated that a law that undermines these foundational values "strikes at the core of the constitutional arrangement."
- The SC directed the Centre to establish the National Tribunal Commission within four months.
- The National Tribunal Commission is considered an "essential structural safeguard" to ensure independence, transparency, and uniformity in the functioning, appointment procedure, and administration of tribunals.
- The Court held that the 2021 Act was essentially a "legislative override" of its earlier 2021 judgment, with the Chief Justice describing it as merely a repackaged version of the previously struck-down Tribunal Reforms Ordinance.

- Chief Justice Gvai reaffirmed that judicial review is a basic feature of the Constitution.
- The Bench cited B.R. Ambedkar: "If the executive is honest in working the Constitution, it must act in accordance with the judicial decisions."
- The act defines the terms donor, recipient, and near relative to prevent misuse.

About Transplantation of Human Organs and Tissues Rules, 2014.

- Expands access to organ, tissue, and eye donation services across regions, aligning with the goals of the National Organ Transplant Programme (NOTP).
- Encourages more institutions to participate in eye donation and corneal transplantation, increasing the availability of donor tissue.

Supreme Court Calls for Uniform National Policy on Organ Transplants

- The Supreme Court stressed the need for a uniform national policy to ensure transparency and fairness in organ transplantation across India.
- The Court asked the Centre to persuade Andhra Pradesh to adopt the 2011 amendments to the Transplantation of Human Organs Act, 1994.
- It also directed Karnataka, Tamil Nadu, and Manipur to adopt the Transplantation of Human Organs and Tissues Rules, 2014.

India and Tamil Nadu's Position

- India ranks 3rd globally in total organ transplants, behind the US and China, and 1st in living donor transplants.
- Tamil Nadu has been recognised as the best-performing State in organ donation for the eighth consecutive time.
- Tamil Nadu accounted for one-fourth (24%) of all organ transplants performed across 36 states/UTs in the country last year.

About Transplantation of Human Organs and Tissues Act, 1994

- Before 1994, India lacked a unified law on organ transplantation, relying on scattered state acts like the Bombay Corneal Grafting Act (1957) and Maharashtra Kidney Transplantation Act (1982).
- The 1994 Act was framed on the recommendations of a committee led by Dr. L.M.Singhvi (1991) to ensure ethical and transparent transplantation.
- THOTA, 1994 was enacted to regulate the removal, storage, and transplantation of human organs and tissues for therapeutic purposes, and to prevent commercial dealings in human organs.

- **Dr.N.Gopalakrishnan**, Member Secretary of the State Organ Transplant Commission, oversees the program.
- Tamil Nadu Chief Minister had announced State honours for the mortal remains of deceased donors on September 23, 2023.

Judiciary cannot tie President, Governor to timelines: Supreme Court

- The Supreme Court (SC) stated that the judiciary cannot set "one-size-fits-all" timetables for the President and Governors to dispose of State Bills (under Articles 200 and 201).
- The concept of 'deemed consent' (where a Bill is assumed to be passed after a court-ordered

time frame) is considered unconstitutional by the SC.

- Implementing 'deemed consent' would usurp the constitutional functions of the President and Governor.
- Such usurpation is deemed "antithetical" to the Constitution and specifically violates the doctrine of separation of powers, which is part of the basic structure of the Constitution.
- While rejecting deemed consent, the SC cautioned that President and Governors should not delay Bills indefinitely through "prolonged and evasive inaction."
- The ruling responds to a 16th Presidential Reference under Article 143, which sought clarity after the SC's April 8 judgment that had imposed a 3-month limit.
- The 14 questions in the Reference were termed a "functional reference" involving day-to-day constitutional functioning between legislatures, Governors, and the President.
- The court stated it has the "institutional responsibility" to clarify "general questions of law" and "iron out constitutional creases" through this "functional reference."

Governor's Options (Article 200)

- Three Options Clarified: The court confirmed that a Governor has three constitutional options under Article 200:
 - Grant assent to the Bill.
 - Reserve it for the consideration of the President.
 - Withhold assent and return the Bill to the State Legislature with comments (if it is not a Money Bill).
- A Governor cannot simply withhold a Bill indefinitely without returning it with reasons.
- Judicial review cannot assess the merits of a Governor's decision, but courts may issue a limited mandamus if there is prolonged, unexplained, indefinite inaction.
- Governors enjoy personal immunity from court proceedings under Article 361.
- Imposing uniform timelines on Governors/President is unconstitutional because Bills differ in complexity and the Constitution prescribes no schedule.
- The President need not consult the SC on every Bill reserved under Article 143; consultation is discretionary.
- Courts cannot review or adjudicate the contents of a Bill before it becomes law; legislative will becomes final only after gubernatorial or presidential assent.

HC Ends Interim Bail Practice in Premature Release Cases

- Madras High Court ends long-standing practice of granting interim bail to convicts awaiting the State government's decision on premature release.
- Court rules that only the government can grant both premature release and suspension of sentence, not the judiciary.
- Bench questioned the legality of the interim-bail practice that existed since 2016.
- As per Section 473 of Bharatiya Nagarik Suraksha Sanhita and TN Suspension of Sentence Rules, 1982, only the State government can act.
- The judges stressed that the State government cannot "shirk its responsibility" by simply giving a 'no objection' to courts granting interim bail.

- Directed the government to handle such pleas in a time-bound manner.

Centre notifies four new Labour Codes

▪ Four Labour Codes Notified:

- Code on Wages (2019)
- Industrial Relations Code (2020)
- Code on Social Security (2020)
- Occupational Safety, Health and Working Conditions (OSHC) Code (2020)
- Replaces 29 fragmented labour laws, many dating back to 1930s-1950s (pre- and early post-Independence).
- The Codes have defined gig work, platform work, and aggregators for the first time.

▪ Additional systemic reforms include:

- Inspector-cum-facilitator model for supportive compliance
- Faster dispute resolution through two-member tribunals
- A National Occupational Safety, Health (OSH) Board to harmonise safety standards.

▪ Key Reforms Introduced:

- Universal social security coverage for gig workers.
- Gender pay parity.
- Expanded rights and safety for women workers.
- Statutory backing for minimum wages.
- Introduction of fixed-term employment.
- Free annual medical check-up for workers above 40 years of age.

Geological Survey of India (GSI)

- The Union Minister of Coal & Mines

inaugurated GSI's International Seminar in Jaipur to mark 175 years of the Geological Survey of India (GSI).

About Geological Survey of India (GSI)

- GSI is India's premier national geoscientific organisation, responsible for geological surveys, mineral exploration, and creation of national geoscience databases.
- It functions as an attached office under the **Ministry of Mines**.
- **Established In:** Formally established in 1851.
- Founded primarily to locate coal resources for expanding Indian Railways during British rule.

Historical Evolution:

- **Early 1800s:** Initial geological work done by Survey of India and Army officers like W. Voyssey (first geological map of Hyderabad, 1818-23).
- **1837:** Committee for "Investigation of Coal and Mineral Resources" created; John McClelland used the term "Geological Survey of India" in 1848.
- **1851:** Under Sir Thomas Oldham, continuous institutional geological work started, marking the true beginning of GSI.
- Over 175 years, it evolved into a national repository of geological and mineral data and a globally respected scientific institution.

SC Report Calls for Ending

Discriminatory Job Titles in Judiciary

- A Supreme Court report urges the judiciary to stop using archaic and discriminatory job titles such as halalkhor, dhobi, scavenger, coolie, masalchi, malan, and others.

- The report, titled "Reforming administrative nomenclature in the Indian judiciary: Embedding dignity and equity in service rules," argues that these terms perpetuate a "grammar of inequality" rooted in feudal, colonial, and caste-based systems.
- The report aims to "align the language of the administration with the language of the Constitution" to reaffirm that language is the judiciary's "first act of justice."
- The report notes that terms such as halalkhor and scavenger violate constitutional protections against caste-based discrimination.

53rd Chief Justice of India

- Justice Surya Kant will take oath as the **53rd Chief Justice of India (CJI)**.
- He will succeed Justice **B.R. Gavai**.
- He was appointed on October 30 and will serve for nearly 15 months, demitting office on February 9, 2027 upon turning 65.

Chief Justice of India

- **Appointment:** A Supreme Court judge, including the CJI, is appointed by the President under Article 124 (2).
 - The outgoing CJI recommends the senior-most Supreme Court judge based on length of service as the next CJI (a customary practice, not a legal requirement).
- **Qualification:** To qualify as CJI, one must be a citizen of India, have served as a High Court judge for 5 years or as an advocate for 10 years, or be a distinguished jurist in the President's opinion.
- **Tenure:** The CJI holds office until the age of 65 years, with no fixed tenure, as it depends on the

judge's date of appointment and retirement.

- The CJI can only be removed by the President after an address by Parliament, supported by a **special majority** in both Houses.

National Judicial Appointments Commission (NJAC)

- Context: Chief Justice of India (CJI) Surya Kant orally stated that the court will consider a plea seeking to revive the National Judicial Appointments Commission (NJAC).

About National Judicial Appointments Commission (NJAC)

- It was created through the 99th Constitutional Amendment Act, 2014 and NJAC Act, 2014.
- It sought to replace the collegium system with a multi-stakeholder body to appoint judges to the SC and HCs.

Composition of NJAC:

- Chief Justice of India (Chairperson)
- Two senior-most SC judges
- Union Law Minister
- Two eminent persons (selected by PM, CJI, and LoP, with one from SC/ST/OBC/women/minorities)

Reasons for Striking Down the NJAC

- In 2015, a 5-judge Bench (4:1) ruled NJAC unconstitutional as it violated the Basic Structure Doctrine.
- The Court observed that judicial primacy in appointments is part of the basic structure and NJAC allowed the executive to interfere via veto powers.
- Concerns over independence of judiciary and possible 3-3 deadlocks led to the rejection of the law.

INDIAN ECONOMY

Chhattisgarh leads in copper exports

- Chhattisgarh has emerged as the top exporter of copper to China.
- Chhattisgarh has achieved a significant milestone in the export of copper products. Accordingly, the state has exported 12,000 metric tonnes of copper concentrates to China.
- The shipment was made from the Multi-Modal Logistics Park in Raipur.
- Earlier, 2,200 metric tonnes of copper was sent to China by sea from Visakhapatnam port on November 11.

Index of Eight Core Industries

- India's core infrastructure output stagnated in October 2025, recording 0% growth—the worst performance in 14 months.

About Index of Eight Core Industries:

- The ICI measures the combined and individual performance of production of eight core industries viz. Coal, Crude Oil, Natural Gas, Refinery Products, Fertilizers, Steel, Cement and Electricity.
- These sectors collectively make up 40.27% of the weight of the entire IIP.
- Released by: The Office of Economic Advisor, under the Ministry of Commerce and Industry.
- Industry & Weight (In percentage): Petroleum & Refinery production (28.04 %), Electricity generation (19.85 %), Steel production (17.92 %), Coal production (10.33 %), Crude Oil production (8.98 %), Natural production Gas (6.88 %), Cement production (5.37 %), Fertilizers production (2.63 %).



TAMIL NADU

Tamil Nadu Climate Action Tracker

- Minister for Finance, Environment and Climate Change launched the 'Climate Action Tracker for Tamil Nadu' and 'Climate Decarbonisation Pathways'.
- The pathways were launched for specific districts: Ramanathapuram, Virudhunagar, Coimbatore, and Nilgiris.
- The framework will be progressively expanded across the State.
- Objective:** To achieve net zero emissions through district-level and community-level planning.
- Aim:** To build an economy that is resilient, inclusive, competitive, and environmentally responsible.

Other Broader Environmental Efforts of Tamil Nadu

- Meendum Manjappai Movement:** Promotes responsible consumption by reducing plastic use.
- Thooimai Mission:** Focuses on transforming waste management to create a cleaner Tamil Nadu.

Renewable Energy Achievements

- Tamil Nadu added ~10 GW of renewable energy capacity in the past five years.
- Currently, 60% of total installed energy capacity in the State comes from renewable sources.

Trek Tamil Nadu Initiative Expanded

- The programme will expand from 40 curated

routes to over 50 destinations across Tamil Nadu.

- Plans are underway to collaborate with the Tamil Nadu Tourism Development Corporation (TTDC) to launch integrated eco-tour packages.

About Trek Tamil Nadu Initiative

- Trek Tamil Nadu was launched in 2024 to promote eco-sensitive adventure tourism in Tamil Nadu.
- It offers sustainable, guided trekking experiences in forest and wildlife areas, focusing on adventure, conservation, and community participation.
- The initiative provides a safe and enriching experience showcasing Tamil Nadu's natural heritage.
- In its first year, the initiative attracted 15,500 trekkers, including 1,400 students and 150 international visitors.

Recognition and Awards

- The initiative received:** 'Most Exclusive Product Award' at TTF Chennai 2025.
- 'Best Niche Tourism Operator Award' at the Tamil Nadu Tourism Awards 2025.
- Recognised for its innovative approach to combining tourism with environmental conservation.

Neolithic stone tools discovered

- Under the supervision of C. Mohammed Fahim, Researcher, Department of History, Vaniyambadi Islamia College, Tirupattur District and PhD researcher Ranganathan has discovered 5,000-year-old Neolithic stone tools in Nellipattu village under the Jawadhu Hills.

- Rare stone tools have been found in Nellipattu village. These reveal the needs and technological capabilities of Neolithic people.
- The stone axe found here is long, sharp at one end, and finely polished. It would have been used to clear forests to create agricultural land, and to cut trees to build houses.
- Since a large number of stone axes have been found here, it is believed that the axes may have been not only tools for daily use but also a part of trade.
- The findings not only reflect the needs of the Neolithic people of the Jawadhu Hills, but also the quality of craftsmanship and social structure
- This area would have once been a centre of civilization engaged in autonomous agriculture and trade. This is a turning point in the history of Jawadhu Hill.
- The original Arunachaleswarar temple was built about 500 years ago during the Vijayanagara Empire.
- There were 103 coins in the gold coin hoard.

Tamil Nadu Endangered Species Conservation Fund

- The Tamil Nadu Endangered Species Conservation Fund was established to strengthen conservation measures for endangered species across the State.
- It ensures focused funding, scientific management, and long-term conservation of vulnerable flora and fauna.
- Established in November 2024 with a corpus of Rs.50 crore and an initial seed money sanction of Rs.5 crore.
- Initially managed by the State Forest Development Agency; now transferred to the Advanced Institute for Wildlife Conservation (AIWC), Vandalur for scientific oversight.

Namma School Namma Ooru School Scheme

- 'Namma School Namma Ooru School' scheme was launched in Chennai on 19th December 2022.
- It was launched under the Department of School Education.
- It aims to upgrade infrastructure and facilities in government and government-aided schools across Tamil Nadu through public-private partnership and community participation.
- **Committees Constituted:** A Governing Committee and an Executive Committee were constituted via an order issued by Supriya Sahu, Additional Chief Secretary, Environment, Climate Change and Forests Department on November 1.

Governing Committee

- **Chairperson:**
 - Chief Secretary, Tamil Nadu
- **Vice-Chairperson:**
 - Additional Chief Secretary, Environment, Climate Change and Forests Department
- **Other Members:**
 - Secretaries of Finance and Industries Departments

Gold coins from the Vijayanagara Empire.

- 103 gold coins from the Vijayanagara Empire were found in a temple in Kovilur Panchayat, Javathumalai Ondriyam, Tiruvannamalai District.

- Principal Chief Conservator of Forests (Head of Forest Force)
 - Principal Chief Conservator of Forests and Chief Wildlife Warden
 - Principal Chief Conservator of Forests and Director, AIWC
 - Principal Chief Conservator of Forests and Secretary, Tamil Nadu Biodiversity Board
 - Chairman, Tamil Nadu Pollution Control Board (TNPCB)
 - Director of Environment
 - Representatives from:
 - National Biodiversity Authority (NBA)
 - Wildlife Institute of India (WII)
 - Institute of Forest Genetics and Tree Breeding, Coimbatore
 - Tenure: 3 years
 - Meetings: At least once every four months
 - **Expert and Philanthropist Members:**
 - Rohini Nilekani, Chairperson, Rohini Nilekani Philanthropies
 - Mallika Srinivasan, CMD, TAFE
 - Dr. J.K. Patterson Edward, Director, Suganthi Devadasan Marine Research Institute
 - Dr. K. Jayakumar, Professor, Madurai Kamaraj University
 - S. Balachandran, Managing Trustee, Migratory Bird Monitoring Trust
 - Arumugam, MD & CEO, Broadline Technologies
- Executive Committee**
- **Chairperson:**
 - Additional Chief Secretary, Environment, Climate Change and Forests Department
 - **Members:**
 - Principal Chief Conservator of Forests and Director, AIWC
 - Chairperson, TNPCB
 - Additional Principal Chief Conservator of Forests (Wildlife)
 - Chief Conservator of Forests (Research)
 - Director of Environment
 - **Functions:**
 - Manage **day-to-day operations** of the fund.
 - **Implement and monitor** conservation projects.
 - **Mobilise resources** and ensure effective utilisation of the fund.
 - Oversee activities aimed at **protecting and restoring endangered species in Tamil Nadu.**
- Rare Golden Jackals**
- Forest officials have discovered a large number of rare Golden Jackals in the Pichavaram Surapunnai forests near Chidambaram in Cuddalore district.
 - Mangrove forests in Pichavaram cover an area of 3,000 acres. These forests include backwaters and dense mangrove (surapunnai) forests.
 - These Surapunnai forests are home to a large number of otters and Golden Jackals.
 - They feed on fish, crabs, and shrimp. Golden Jackals are considered the cleaners of the forests.
- 'Startup for All' Centre - Launch**
- Tamil Nadu Global Start-up Conference was held at IIT Madras. It was inaugurated by the Minister of Information Technology.
 - IIT Madras has launched a centre called 'Start-up for All' with an aim to help new age entrepreneurs and start-ups.

- IIT Madras's Centre for New Age Entrepreneurship Research and Centre for Disaster Finance Research have jointly launched a centre called 'Start-up for All'.
- The 17th Indian Game Developers Conference organized by the Game Developers Association of India began on 05.11.25 at Nandambakkam, Chennai.

IIT Madras - 70th place

- IIT Madras has been ranked 70th among the leading educational institutions in Asia.
- This was stated in a report released by Quacquarelli Symonds (QS), a global higher education analysis company based in London, the UK.
- IIT Delhi, IIT Madras, IIT Mumbai, IIT Kanpur and IIT Kharagpur are among the top 100 educational institutions in Asia.
- 7 Indian educational institutions are among the top 100 educational institutions in this list. 20 Indian educational institutions are among the top 200 educational institutions, and 66 educational institutions are among the top 500 educational institutions.
- According to the QS rankings, Hong Kong University is ranked first among the top 100 educational institutions in Asia.
- At the Indian level, IIT Delhi is ranked 50th, IIT Madras is ranked 20th, IIT Mumbai is ranked 71st, while IIT Kanpur and IIT Kharagpur share the 77th position.
- The IT Minister inaugurated this conference, which is being held for the first time in Tamil Nadu
- The famous Nintendo company is participating in this conference for the first time.

New Curriculum Committee Formation as per State Education Policy

- The School Education Department has appointed two committees namely Curriculum Design Committee and Curriculum High Level Committee to develop a new curriculum for schools as per the State Education Policy in Tamil Nadu.

Functions of the committees

- As per the government order, the Curriculum Design Committee will conduct a detailed study on the changes to be made in the current curriculum, syllabus, teaching approach and assessment methods, considering the gap between learning-teaching objectives and environmental achievement.
- For this, it will obtain educational opinions from all levels including teachers, students, parents, educators and submit them for consideration to the high-level committee that has developed recommendations for a new curriculum framework and a draft curriculum for Tamil Nadu school education on the basis of the Tamil Nadu State Education Policy 2025.

Artistic Design Committee

- Chairman State Planning Committee Member Sultan Ahmed Ismail

Gaming companies invited to invest in Tamil Nadu

- The Tamil Nadu Information Technology Minister has said that a new policy will be released soon for the development of the animation, visual effects, gaming and comics sector.

Members

- History and Archaeology Expert Ka. Rajan,
- Professor and Scientist T.V. Venkateswaran, Indian Institute of Science Education and Research, Mohali,
- Professor Rita John, Department of Theoretical Physics, University of Madras,
- Former Professor M. Sudantiramuthu, State College Tamil Department,
- Botanist N. Mathivanan,
- Historian T. Asokan,
- English Language Teaching Expert Uma Raman,
- Renowned Painter Maniam Selvan,
- Educationist R. Chandanadevan,
- Government School Graduate Teacher Sri. Thilip from Villupuram District

Higher Education Commission

- **Chairman:** Minister of School Education
- **Vice Chairman:** Principal Secretary, School Education

Members:

- ISRO Chairman V. Narayanan,
- Mathematics I. Ramanujan,
- Educationist S. Madasamy,
- Tamil Nadu Dr. J. Jayalalithaa Music and Performing Arts University Vice Chancellor C. Soumya
- Folklore and Performing Arts Ko. Palani,
- Indian cricket team player Ravichandran Ashwin,
- Child rights activist A. Devaneyan
- Directors of School Education, Primary Education, Private Schools, Directorate of Government Examinations, State Educational Research and Training Institute.

Tamil Nadu's Vision for Sustainability

- Tamil Nadu's vision for sustainability and an inclusive economy is predicted to become the blueprint for the nation by 2047 (India's centenary year).
- Tamil Nadu has been a leader in renewable energy,
- **Ranking:**
 - 3rd in total renewable energy capacity in India
 - 1st in wind energy capacity

Namakku Naame Thittam

- The Greater Chennai Corporation, under the Namakku Naame Thittam scheme, is launching 20 smart classroom projects in North Chennai schools.

About Namakku Naame Thittam

- Launched by the Chief Minister of Tamil Nadu during the 1997-98 Budget Speech.
- A participatory, demand-driven scheme promoting self-help and self-reliance among communities.
- Involves the community directly in the developmental process from planning, resource mobilization, execution, to maintenance.
- State Government provides financial and technical support.
- The public themselves can select works they need and execute them according to the scheme's guidelines.

Evolution of the Scheme:

- 1997-2001: Operated as Namakku Naame Thittam.
- 2001-2002: Renamed as Village Self Sufficiency Scheme.

- 2002–2006: Continued as Self Sufficiency Scheme.
- Revived in 2007–08 under the original name Namakku Naame Thittam.

Funding Pattern:

- One-third (1/3) of cost – Public contribution.
- Two-thirds (2/3) – Government grant.
- Applicable to both rural and urban areas.

Special Medical Camp for Journalists

- Tamil Nadu State government launched a special medical camp for journalists on Saturday.
- The comprehensive health insurance scheme is now available for all accredited journalists, as announced by the Chief Minister in 2022. 1,414 journalists have been included on the list.
- The monthly pension for journalists was increased from Rs.10,000 to Rs.12,000.
- The assistance amount for the welfare of journalists was significantly increased from ₹3 lakh to ₹10 lakh.

TAEI Registry 2.0 App

- TAEI Registry 2.0 was launched by the Health Minister of Tamil Nadu government.
- The app is designed for real-time data collection for accident and emergency care in the State.
- Developed for real-time data collection on accident and emergency care. Integrates data from 113 trauma and emergency centres, ambulances, and hospitals.
- Aims to improve pre-hospital, in-hospital, and rehabilitation services.

Chennai Metro helps move lungs for transplantation

- For the first time, the Chennai Metro Rail was used as a “green corridor” to transport human organs.
- Precedents in Other Cities: Hyderabad Metro (2021 & January 2025) and Bengaluru Metro (August 2025 & September 2025)

Legal Framework:

- In 2023, the Ministry of Housing and Urban Affairs amended the Metro Railways (Carriage and Ticket) Rules, 2014, allowing:
 - “Hospitals registered under the Transplantation of Human Organs and Tissues Act, 1994, to carry human organs or tissues in Metro trains for transplantation.”

Significance:

- Marks a new milestone for Chennai Metro, showcasing urban transport’s role in saving lives.
- Highlights the growing integration between public infrastructure and emergency medical services.

Tholkudi Scheme

- Announced by the Tamil Nadu Finance Minister in the 2024-25 Budget.
- Total Funding: 1,000 crores
- Implementation period: 4 years

The main objectives of Tholkudi Scheme are:

- To improve basic amenities in tribal areas
- To improve the quality of life of tribal communities
- To promote socio-economic development of tribal areas

Anbucholai Scheme

- The 'Anbucholai Scheme' has been developed by the Tamil Nadu government to improve the well-being of senior citizens and to help the elderly at home to get motivated without getting discouraged.
- The Chief Minister will launch this scheme in Trichy on 10.11.2025.
- The Anbucholai Senior Citizens' Recreation Centres set up under this scheme will function as community centres focusing on the healthy development of senior citizens.
- A total of 25 Anbu Solai Centers are being started at a cost of Rs. 10 crores, including two Anbu Solai Centers each in 10 Municipal Corporations namely Madurai, Coimbatore, Trichy, Salem, Tiruppur, Erode, Thoothukudi, Vellore, Thanjavur and Dindigul, one center each in the industrial districts of Ranipet and Krishnagiri, and one center each in Thandaiyarpur, Sholinganallur and Virugambakkam in the Chennai Corporation.

'Nalam Kaakum Stalin'

- Public Welfare Department officials have said that 8.21 lakh people have benefited under the 'Nalam Kaakum Stalin' scheme so far.
- The Chief Minister launched the 'Nalam Kaakum Stalin' scheme in all the districts of Tamil Nadu on August 2.
- This scheme is implemented by the Public Welfare Department.
- Examinations and special treatments are provided by medical experts under the departments of general medicine, general surgery, heart health, orthopedics, neurology, skin health, ear-nose-throat and obstetrics, physiotherapy, dentistry, mental health, child

health, pulmonary medicine, and Indian medicine.

Day Care Centres for Elderly People

- Tamil Nadu Chief Minister launched day care centres for the elderly called Anbu Solai on 10.11.2025.
- The initiative aims to promote the well-being of senior citizens, particularly those from working-class families.
- The scheme was announced in the Tamil Nadu Budget 2025-26 and implemented by the Department of Social Welfare and Women Empowerment.
- The project has been allocated ₹10 crore for establishment and operations.
- 25 centres have been opened across Tamil Nadu in the first phase.
- The primary objective is to drive away the loneliness of the elderly in households of employed couples, keeping them active, physically and mentally, and ensuring they are happy and safe.

The distribution of the first 25 centres

includes:

- Three centres in the Greater Chennai Corporation.
- Two centres each in ten Municipal Corporations (Tiruchi, Madurai, Coimbatore, Salem, Erode, Thanjavur, Thoothukudi, Tiruppur, Dindigul, and Vellore).
- One centre each in the industrial districts of Ranipet and Krishnagiri.

Kovalam Beach Blue Flag Certification

- Kovalam Beach in Chengalpattu district has been awarded the International Blue Flag

certification for the fifth consecutive year for the 2025-2026 period.

- It was the first beach in Tamil Nadu to receive the certification on September 21, 2021.
- The beach met the stringent global standards set by the Foundation for Environmental Education (FEE), Denmark.
 - The certification is renewed annually after detailed inspections by national and international committees.
 - Government initiative:
 - Based on Kovalam's success, the Tamil Nadu government aims to secure Blue Flag certification for 10 beaches across the State.
 - Proposed beaches include Palavakkam, Thiruvanmiyur, and Uthandi in Chennai.

Tamil Nadu- Saxony Business Conclave

- The Tamil Nadu-Saxony Business Conclave 2025 was held in Chennai on 11.11.25 on behalf of the South Indian Chamber of Commerce and the State Government of Saxony, Germany.
- The event was organized under the name 'Tamil Nadu-Saxony Business Conclave'
- The German Minister said that he plans to focus on the semiconductor and microelectronics sectors with the Tamil Nadu government.
- India is the 4th largest economy in the world.
- The conference was held with the aim of strengthening technology transfer and MSME partnerships and creating new business opportunities.

Computer Tamil Award

- Chief Minister's Computer Tamil Award is an award given by the Tamil Development Department of the Government of Tamil Nadu

- This award is given to those who develop excellent Tamil software for the development of computer Tamil so that the Tamil language can spread all over the world through computers.

Purpose

- Information technology is growing day by day. Due to this, the use of computers is also increasing. Tamils live widely all over the world. Therefore, there is a need to develop software in Tamil to spread the Tamil language through computers.

Unmanned Autonomous Intelligent Vehicle Launched

- The National Institute of Ocean Resources Technology, Pallikaranai, has launched an unmanned autonomous intelligent vehicle and a deep-sea exploration device for deep-sea exploration.
- These new devices have been launched on the occasion of the 32nd foundation day of this institute, which operates under the Ministry of Earth Sciences, Government of India.
- A state-of-the-art research infrastructure has been developed at the seafront facility in Bamaji village, Andhra Pradesh. An innovative bridge called 'Dressal' has been constructed at the seafront to make it easy for vehicles to cross.
- A team led by scientist Vedhachalam has designed a deep-sea device called 'Matshaya 6000'. This device will go into the sea up to 6,000 meters deep and conduct research.
- Similarly, a team led by scientist Balanaga Jyothi has developed an 'Intelligence Manas 1.1' car. This is an unmanned autonomous vehicle. It will go into the deepest part of the

sea where humans cannot go, conduct research and collect data.

National Institute of Ocean Resources Technology

- The National Institute of Ocean Technology (NIOT) was established in November 1993 as an autonomous association under the Ministry of Earth Sciences, Government of India.
- NIOT is governed by a Board of Directors and the Director is the Chairman of the Institute.
- The main objective of setting up NIOT under the Ministry of Earth Sciences is to develop reliable indigenous technologies to address various engineering problems associated with harvesting of living and non-living resources in the Indian Exclusive Economic Zone (EEZ), which covers two-thirds of India's land area.

Fish fossil discovery

- In Pattinamarudur, Thoothukudi district, history enthusiasts recently discovered fish fossils, oyster fossils, and natural resins that have reached a crystalline state, dating back thousands of years.
- In the archaeological site of Pattinamarudur village in Ottapidaram taluk, Thoothukudi district, pottery fragments, building fragments dating back thousands of years, and marine fossils have been found.
- Some of the marine fossils found in the study are pearl oyster fossils
 - Fish fossils
 - Oyster fossils
 - 100-110 mm. A hand-held sand stone tool with a length of 100-110 mm
 - Natural resins in a crystalline state.
 - Early cursive inscription

▪ When evaluating these, it has now been identified that they had been buried in the soil for more than a few thousand years.

'Thozhi' Hostel Scheme

- The Tamil Nadu Chief Minister announced on the occasion of International Women's Day.
- The Department of Social Welfare and Women Empowerment of the Government of Tamil Nadu has started eleven hostels for working women in nine districts.
- These hostels have been named 'Thozhi' (female companion).
- This hostel will function under the Tamil Nadu Working Women's Hostel Corporation Limited.
- The objective is to provide safe and affordable accommodation to women.
- The hostels under this scheme have been set up in Chennai, Chengalpattu, Salem, Trichy, Tirunelveli, Vellore, Villupuram, Perambalur and Thanjavur.
- Currently, the Chief Minister has laid the foundation stone of 12 new hostels in Tamil Nadu at a cost of Rs. 62.51 crore through video conferencing from the Secretariat.
- 19 hostels are already functioning in Tamil Nadu.
- Furthermore, 14 hostels, including dormitories and observation houses, are to be constructed in various parts of Tamil Nadu.
- These hostels are to be constructed in Mayiladuthurai, Virudhunagar, Dindigul, Nilgiris, Ramanathapuram, Thoothukudi, Pudukkottai, Ariyalur, Thiruvavur and Kanyakumari to accommodate 740 employees.

- In addition, government model observation buildings under the name 'Pooncholai' are also to be constructed in Coimbatore district.
- The commission is yet to be set up even after the Act came into force.

Structure of TNHC

Mobile medical vehicle to diagnose cancer for women

- The Chief Minister inaugurated a modern vehicle that can go to women's residences and diagnose diseases including cancer on 13.11.25
- This vehicle will be introduced for the first time in Kanchipuram district.
- This project is being implemented by the Public Health Department under the Cancer Prevention and Care Scheme, 38 mobile medical vehicles have been purchased at a cost of Rs. 40 crore for women's welfare.

- A maximum of 16 members headed by an eminent person dedicated to heritage conservation, including ex-officio members: Tourism Secretary, Urban Development Secretary, Municipal Administration Secretary, Rural Development Secretary, Law Secretary.
- Monuments and Antiquities Protection Act - 1958
- This Act was enacted to protect, maintain and study ancient temples, monuments, antiquities, archaeological sites etc. in India.

Some of the places protected under this Act in Tamil Nadu are

- Mamallapuram monuments of the Pallavas
- Thanjavur Great Temple
- Tiruvannamalai Arunachaleswarar Temple
- Kanchipuram Gangaikonda Cholapuram
- Keezhadi Archaeological Site etc.

Ancient Monuments Commission Formation

- The Tamil Nadu High Court has ordered the setting up of an Ancient Monuments Commission to protect ancient and ancient temples and monuments
- The Ancient Monuments Commission Act came into force last year to protect ancient and ancient temples and monuments in Tamil Nadu.

Travel anywhere for one rupee

- A scheme has been introduced in the 'Chennai One' app to offer one-time concessional travel on metro, city bus and train by paying one rupee each.
- Accordingly, those who pay through UPI using BHIM and Navi apps can book their first ticket on Chennai Metro Rail and city buses for their first journey by paying just one rupee.

Tamil Nadu Heritage Commission

- The High Court has directed the Tamil Nadu government to set up the Tamil Nadu Heritage Commission (TNHC) within four weeks.
- The purpose of the TNHC is to protect ancient buildings and complexes that do not come under the Central or State Ancient Monuments Acts.
- The TNHC Act was enacted in 2012, but remained dormant for 12 years.
- It came into force on March 12, 2024.

Chennai One - App

- This is the first app in the country to connect all public transport.
- The Chennai Metropolitan Transport Authority has developed it to promote public transport in Chennai.

- It was launched by the Chief Minister of Tamil Nadu on September 22.
- Using this app, you can travel on city buses, metro and suburban trains
- This app can be used in 4 languages - English, Tamil, Telugu and Kannada.
- The essence of the Padam Pathukappom Project is to detect nerve loss and blood vessel blockage caused by diabetes at an early stage and to prevent foot loss through timely interventions.
- "Foot Clinic" was implemented as a pilot project in Thanjavur district to detect diabetic foot problems, examine and recommend their solutions.

Free Bicycle Scheme

- The year of launch of the Free Bicycle Scheme of the Tamil Nadu Government was 2002.
- The scheme was launched by former Chief Minister Jayalalithaa.
- Free bicycles will be provided to all 11th standard students studying in government, government aided and partially government aided schools.
- The main objective of the Free Bicycle Scheme for Students is to promote female education and help students who find it difficult to go to school.
- This scheme especially helps students from rural and remote areas to pursue higher education without any difficulty.
- A new app called 'School View - 2.0' has been launched with the aim of improving inspection work in schools.
- Introduction of School View App - 18 February 2023. Expanded across the state in March 2023.
- An app called 'School View' was launched to monitor the activities of schools in Tamil Nadu.
- Departmental officers used to upload notes on this app during school inspections focusing on classroom teaching, student attendance, learning status, etc.
- Now it has been improved and the 'School View-2.0' app has been launched.

School View - New App Launched

Padam Pathukappom Project

- Tamil Nadu Integrated Diabetic Foot Care Project "Padam Pathukappom Project" was launched on 28.10.24
- This program is run by the Department of Public Health.
- It covers all aspects of foot care such as diagnosis, awareness about foot problems, foot ulcer prevention, provision of footwear, foot ulcer treatment, diabetic foot surgeries, and provision of artificial feet in case of loss of feet.
- The Akananuru records in several places that bears love the honey-filled flowers of the iluppai tree.
- A group of bears with large hands, hating the honey-filled flowers in the red bush built by the ants, eat the white flowers of the iluppai tree - Akananuru Song 149.
- A large group of little bears eat the white flowers of the iluppai tree with its hollow base - Akananuru Song 275 states.

Akananuru Song - Bears

Chief Minister's Creative Center

- The Chief Minister inaugurated the Chief Minister's Creative Center on 4 November 2024 in Kolathur (Chennai).
- It has been developed for the effective use of IT companies and those preparing for government exams.
- A fee of Rs. 5 per day is charged for the learning center called Chief Minister's Creative Center.
- The Finance Minister announced that the Chief Minister's Creative Center project will be expanded to 30 places across the state in the 2025-26 budget.
- In that regard, Chief Minister's Creative Centers are to be built in cities like Coimbatore, Madurai, Trichy, Salem, Tambaram and Avadi at an estimated cost of Rs. 5 crore each.

Indian Languages Laboratory inaugurated

- The Language and Cognition Laboratory was inaugurated by IIT Madras Director V. Kamakoti to study Indian languages.
- The laboratory has been set up by the Department of Social Sciences and Anthropology, IIT Madras.
- It is the first language laboratory in the country.
- It ensures systematic research on various languages in the country.
- Using advanced experimental methods, the laboratory will study how humans understand languages, how they create language resources, and how they use the practices associated with them.

Free food scheme for sanitation workers

- This scheme has been launched for the first time in the country in Chennai Corporation.
- The Chief Minister launched the scheme to provide free food to sanitation workers in the Chennai Metropolitan Corporation on 16.11.25.
- The event for this was held at Kalaivanar Arangam.
- A fund of Rs. 64 crore has been allocated annually for this scheme.
- Food will be provided to sanitation workers working in rotation in the Chennai Metropolitan Corporation in the morning, afternoon and night.
- This scheme has been brought in to appreciate the incomparable work of sanitation workers during times of disaster such as heat, rain and flood.
- For the welfare of sanitation workers, many schemes have been implemented such as the establishment of the Sanitation Workers Welfare Board in 2006, provision of loans to entrepreneurs through TADCO, and medical insurance.
- This scheme, which has been launched in Chennai, will be expanded to all the corporations and municipalities of Tamil Nadu from Dec. 6, the Chief Minister said.

Tribal Welfare Department

- The Tribal Welfare Directorate was formed to formulate and implement appropriate schemes for the development of the tribal people and has been functioning with full financial and administrative powers since 01.04.2018.

- Tribal people constitute 1.17 percent of the total population.
 - Tribal project offices have been opened in 7 districts namely Salem (Yerkadu, Pachamalai, Arunuthumalai and Kalvarayan Malai), Namakkal (Kollimalai), Kallakurichi (Kalvarayan Malai), Tiruvannamalai (Javvadumalai), Tiruchirappalli (Pachamali), Dharmapuri (Sittheri Malai) and Tirupattur Jawvadu and Yelagirimalai) which have 10 Integrated Tribal Development Project Areas where tribals live for 50 percent or more of the total population. Welfare schemes are being implemented in these districts.
 - The main objective of the department is to improve the socio-economic status of the tribals by providing them with welfare assistance for the educational advancement and livelihood of the tribals and by creating basic facilities in their settlements.
 - There are 37 types of tribes in Tamil Nadu.
 - Out of these, 6 tribal groups namely Thoda, Kotha, Kurumbas, Irular, Baniya and 41 Kattunayakan have been classified as Threatened Tribes (PVTGs).
 - The Tribal Sub-Plan has been implemented since 1976-77.
 - One percent of the amount allocated to all departments under the Annual Action Plan of the State Government is used for the welfare of the tribals.
- about the tribals and to conduct research on their lifestyle, culture, language, socio-economic status and educational status.
- The centre is functioning under the leadership of a Director with expertise in anthropology.

'Meendum Manjapai' Scheme

- The 'Meendum Manjapai' scheme was launched by the Chief Minister of Tamil Nadu to encourage the public to use cloth bags and to discourage the use of plastic bags.
- The 'Meendum Manjapai' scheme was launched by the Chief Minister at the Kalaivanar Arangam in Chennai on December - 21.
- This awareness campaign on the use of 'yellow' cloth bags or 'manjapai' as it is called in Tamil, aims to encourage people to use this eco-friendly bag and to dispose of plastic bags.

'Nalam Kaakum Stalin'

- Public Welfare Department officials have said that 8.21 lakh people have benefited under the 'Nalam Kaakum Stalin' scheme so far.
- The Chief Minister launched the 'Nalam Kaakum Stalin' scheme in all the districts of Tamil Nadu on August 2.
- This scheme is implemented by the Public Welfare Department.
- Examinations and special treatments are provided by medical experts under the departments of general medicine, general surgery, heart health, orthopedics, neurology, skin health, ear-nose-throat and obstetrics, physiotherapy, dentistry, mental health, child health, pulmonary medicine, and Indian medicine.

Tribal Research Centre

- The "Tribal Research Centre" was established in 1983 at Muthorai Palada in Udthagamandalam, Nilgiris district with the financial assistance of the Union Government to collect information

Tamil Nadu's survival rate has improved

- By setting up specialized centers for pediatric emergency care, Tamil Nadu has significantly improved the survival rates of children in recent years.
- The state's **Pediatric Resuscitation and Emergency Medicine (PREM)** initiative has strengthened pediatric emergency care through dedicated protocols and appropriate infrastructure in government secondary care institutions, district headquarters hospitals and taluka hospitals.
- The PREM (Pediatric Resuscitation and Emergency Medicine) initiative of the Tamil Nadu National Health Mission and the Tamil Nadu Health Systems Project has strengthened pediatric emergency care by placing protocols, necessary infrastructure, equipment, medicines and trained personnel
- The data shows a steady rise in child survival rates from 93.44% in 2021 to 96.26% in 2024. In the current year (till August 2025), the survival rate is 94.34%. PREM Skills Laboratory, ICH, Madras Medical College Regional Collaborative Centre. 'Guidelines have been developed'

Neelam Cultural Centre - Honors Scholar

- Researcher and scholar V. Geetha has been awarded the 'Scholars Raj Gauthaman Memorial Award' presented by Neelam Cultural Centre, Chennai.
- Vasuki Bhaskar, editor of Neelam magazine, has already established a fellowship scheme in the name of the renowned scholar for students.

Neelam Cultural Centre

- The centre was established in 2015.
- Founder - Director P. Ranjith
- Category - Socio-political organisation
- Headquarters - Tamil Nadu, India
- The Vaanam Art Festival has been organised annually since 2018 to promote artists from marginalised communities.

Kalaivitakar Award

- The Tamil Nadu government has announced that film industry professionals who wish to receive the Kalaivitakar Award can apply by November 28.
- The 'Kalaingar Memorial Kalaivitakar Award' will be presented in the name of former Chief Minister M. Karunanidhi to a lifetime achiever in the Tamil film industry from 2022.
- The recipient selected for this award will be given a prize money of Rs. 10 lakhs and a certificate of appreciation.
- Eligibility for the award: This award is given to those who have made outstanding contributions to the world of Tamil cinema such as actors, actresses, directors, producers, screenwriters, dialogue writers, music composers, lyricists, playback singers, cinematographers, film editors, art directors, sound engineers, stunt trainers, dance teachers, makeup artists and tailors.

Subsidy scheme for Farmers Welfare Service Centers

- The Chief Minister has announced that the Agriculture Department will launch the Chief Minister's subsidy scheme for Farmers Welfare Service Centers in December.

- The Tamil Nadu government recently announced a scheme to provide 30 percent subsidy to 1,000 'Chief Minister's Farmers Welfare Service Centers' to benefit youth between the ages of 20 and 45 who have completed their agricultural degrees and diplomas.
- Under this scheme, 30 percent subsidy i.e. Rs. 3 lakh to Rs. 6 lakh will be provided to service centers set up at a cost of Rs. 10 lakh to Rs. 20 lakh. A fund of Rs. 42 crore has been allocated for this.
- Under this scheme, detailed project reports were prepared and submitted to the banks for 973 beneficiaries among the applicants to get loans from banks.
- Of these, 413 have received bank loans so far.
- Appropriate training will be provided by the government for 15 days to effectively manage the welfare service centers.
- Inflammation, metabolism and other non-communicable diseases.

Rs. 50,000 monthly scholarship to conduct historical research on Tamil society

- The Higher Education Minister has announced that researchers who study rare documents of the Tamil Nadu Archives and uncover the glorious history of Tamil Nadu will be provided with a research scholarship of Rs. 50,000 per month for one year.
- Books from the year 1633 onwards in the Tamil Nadu Archives. Government department documents dating back to 1670 are being maintained.
- The Tamil Nadu Historical Research Council was started in 1973 with the aim of making everyone aware of the history of Tamil Nadu.
- It was announced in the Legislative Assembly that 10 to 15 studies will be conducted every year to keep it updated with the changing times.

Single Cell Omics' Applied Research

Laboratory

- IIT Madras is setting up the Single Cell Omics' Applied Research Laboratory (SCOT) for Health Ecosystem with the help of Indian Railways Finance Corporation.
- IRFC has provided Rs. 10.83 crore to the Department of Medical Sciences and Technology, IIT Madras for setting up this laboratory, which will be the first of its kind in the country.
- The SCOT laboratory, equipped with state-of-the-art equipment, will facilitate early diagnosis, biomarker discovery and drug testing for cancer, heart disease, infection,

VOC Port sets new record

- Thoothukudi VOC Chidambaranar Port has set a new record in handling cargo, said Port Authority Chairman Sushantha Kumar Purohit.
- VOC Port has handled 3.94 million tonnes of cargo and 75,110 DEUs in October this year alone.
- Compared to 3.55 million tonnes of cargo and 62,158 DEUs handled in October last year, these are 10.94 percent and 20.83 percent growth respectively.
- Cargo ship arriving at Thoothukudi Port. In the financial year 2025-26, the port has handled

- a total of 25.23 million tonnes of cargo and 5,03,204 DEUs till October.
- This is a 2.71 per cent increase in total cargo traffic to 24.56 million tonnes of cargo handled till October in the financial year 2024-25 and a 8.44 per cent increase in cargo volume to 4,64,060 TEUs.
- 1,064 vessels have been handled till October this year
- 1,004 vessels were handled during the same period last financial year.
- The Poompuhar Awards 2025 ceremony was held at a private hotel in Mamallapuram, Chengalpattu district, to present the best artisans from 38 districts of Tamil Nadu.

Poompuhar District Handicraft Award

- 131 people, including 70 women artisans, were awarded in 16 types of handicrafts from all districts of Tamil Nadu.

Ancient Port City Excavation in Egypt

- This is a news article about archaeologists joining an international team for excavations in the ancient port city of Perenike in Egypt.
- The aim is to find more evidence of ancient maritime trade links between the Tamils and the Romans.
- Previous excavations at the site have already found pottery shards inscribed with Tamil-Brahmi scripts, which confirms these historical links
- Two archaeologists from Tamil Nadu have joined the excavation team at Berenike, Egypt.
- The project aims to find more evidence of ancient trade between the Tamils and the Romans.
- Previous excavations at Red Sea ports such as Berenike and Qusayr al-Khadim have found pottery shards with Tamil-Brahmi inscriptions.
- The current excavation season is scheduled to continue until December 17

Makkalai Thedi Maruthuvam

Feature	Description
▪ Starts	05 August 2021 (Krishnagiri)
▪ Purpose	To provide home-based medical services to improve and treat conditions that commonly affect non-communicable diseases.
▪ Implementing Department	Government of Tamil Nadu, Department of Health and Family Welfare
▪ Services	Testing, Medication, Physical Therapy, Patient Support Service, Dialysis Assistance
▪ Target group	People over 45 years of age, people with disabilities, people who have challenges in taking medication consistently

Handicrafts Development Department

Award

- On behalf of the Handicrafts Development Corporation of the Government of Tamil Nadu, the Minister of Handicrafts Development Department honored 131 people selected as the best artisans with cash prizes, gold medals and certificates on 17.11.25.

Virtual Tumour Boards (VTBs) for Cancer Care

- The Tamil Nadu Health Department will establish Virtual Tumour Boards (VTBs) in a hub-and-spoke model across tertiary care institutions and district hospitals.

▪ **Purpose:**

- To ensure specialist cancer opinions reach smaller or remote hospitals.
- To provide proper diagnosis, timely treatment, and standardised cancer care anywhere in the State.

▪ Institutional-level Tumour Boards, which provide treatment plans and suitable directions, are already functioning in several key centres.

Third 'TN Rising Conclave'

▪ Tamil Nadu will host the **3rd TN Rising Conclave on November 25 in Coimbatore.**

▪ The conclave will focus on key sectors including electronics, general manufacturing, textiles, and aerospace and defence.

▪ The event is the **third regional investment summit** (following Thoothukudi and Hosur), reinforcing the government's commitment to shifting the spotlight away from the capital city of Chennai.

▪ **Coimbatore is emerging as a holistic economic engine, with:**

- 25+ Global Capability Centres (GCCs)
- Rapid expansion of IT firms

South India Natural Farming Summit

▪ The **Prime Minister will inaugurate the 3-day South India Natural Farming Summit at Coimbatore Kodisia Complex (Nov. 19)**

▪ Farmers from Tamil Nadu, Puducherry, Kerala, Karnataka and Andhra Pradesh, organic farming scientists, distributors and sellers of organic agricultural products will participate in the conference.

▪ **Aim:** To promote the adoption of sustainable, environmentally friendly and chemical-free

practices and to accelerate the adoption of organic and fish-based farming as a viable and climate-friendly, economically sustainable model for India's agricultural future

DigiArivu - Empowering Students Through Tech Initiative

▪ The initiative was launched in Chennai on 19.11.2025 by the Tamil Nadu School Education Minister.

▪ **Partners:** Samsung (the electronics giant) in partnership with the United Nations Global Compact Network India (UN GCNI).

▪ **Goal:** To strengthen digital learning and STEM education (Science, Technology, Engineering, Mathematics) in select government schools in Tamil Nadu.

▪ **Coverage:** The initiative will upgrade infrastructure in 10 government schools in Kancheepuram and Ranipet districts.

▪ **Beneficiaries:** Over 3,000 students are expected to benefit from the programme.

World Tamil Research Institute

▪ Started due to the efforts of former Chief Minister Perarignar Anna Tamilaringar, Thaninayagam Adigal and others.

▪ The establishment was officially announced by then Chief Minister Perarignar Anna at the Second World Tamil Conference held in Chennai in 1968.

▪ The aim was to create a high-level research centre for Tamil that would be in good condition, similar to the French Language Arts Institute in France.

- **Headquarters:** Located in Taramani, Chennai.
- **Current Chairman:** R.Balakrishnan, I.A.S. (Retd.)
- **Focus areas:** Conducting advanced Tamil research, supporting researchers, and promoting Tamil studies across **literature, culture, science, medicine, and global Tamil research.**
- Human Papillomavirus (HPV) is the primary cause of cervical cancer.
- If undetected, cervical cancer can spread from the cervix to lungs, liver, bladder, and rectum.
- As per Adyar Cancer Institute, cervical cancer is most prevalent in Dharmapuri and Perambalur in Tamil Nadu.

Centre for Heat Resilience in Tamil Nadu

- Set up within the Tamil Nadu Green Climate Company.
- Part of the U.K. Climate Action for a Resilient Asia Programme.
- **Main Objective:** Develop high-resolution, city-based heat maps for all cities in Tamil Nadu to enable targeted interventions.
- Enhance government and private institutional capacity to manage heat risks scientifically.
- Collaborative initiative involving Tamil Nadu Government, UN Environment Programme, World Resources Institute, and the U.K. government.
- Tamil Nadu recognized for climate innovation: first state to establish a State Green Climate Fund and the Tamil Nadu Green Climate Company, and for treating heat waves as state-specific disasters.

Home Delivery of Cervical Cancer Testing Kits

- Home-based cervical cancer screening kits will be delivered by health workers as many women hesitate to visit hospitals for diagnosis.
- The National Health Commission will distribute kits to 25,000 women under 35 in Dharmapuri as a pilot project.

- Incidence rates: Ariyalur - 29.9 per lakh, Chennai - 13 per lakh, Tamil Nadu overall - 14 per lakh.

International Hockey Stadium & Junior Men's World Cup

- The International Hockey Stadium at MGR Stadium, Madurai will be inaugurated on 22.11.2025 by the Deputy Chief Minister of Tamil Nadu.
- The 14th Junior Men's World Cup Hockey Tournament will take place in Chennai and Madurai.
- The tournament is scheduled from November 28 to December 10.
- It is jointly organised by the **International Hockey Federation (FIH), Hockey India, and the Tamil Nadu Sports Development Authority.**

Record Foodgrain Production (2024–25)

- The production of food grains including paddy, wheat, soybeans and groundnuts has reached a record high of 357.32 million tonnes in 2024-25.
- This is 7.65 percent more than the previous food grain production of 332.29 million tonnes in 2023-24.

- **Paddy production** in the 2024-25 **Kharif season** has reached a record high of 122.77 million tonnes.
- **Soybean output** reached **15.26 million tonnes**, and **groundnut** production stood at **11.9 million tonnes**, both at new highs.

Centre for Heat Resilience in Tamil Nadu

- Set up within the Tamil Nadu Green Climate Company.
- Part of the U.K. Climate Action for a Resilient Asia Programme.
- MoU signed in Chennai on 23.11.2025.
- Project duration: till September 2026.
- **Main Objective:**
 - Develop high-resolution, city-based heat maps for all cities in Tamil Nadu to enable targeted interventions.
 - Implement special heat-reduction projects across Tamil Nadu's cities and districts.
 - Enhance technical capacity in health, urban development, disaster management sectors.
 - Collect climate-related data and support the government in developing heat-resilience plans.
- Enhance government and private institutional capacity to manage heat risks scientifically.
- Collaborative initiative involving Tamil Nadu Government, UN Environment Programme, World Resources Institute, and the U.K. government.
- Tamil Nadu recognized for climate innovation: first state to establish a State Green Climate Fund and the **Tamil Nadu Green Climate**

Company, and for treating heat waves as state-specific disasters.

Shoreline management plan

- Tamil Nadu Water Resources Department (WRD) has submitted **41 project proposals worth RS.755 crore** to mitigate coastal erosion.
- WRD seeks funds through the State Disaster Management Authority under the 15th Finance Commission for implementation.
- Proposals are awaiting approval from the National Disaster Management Authority (NDMA). The projects are likely to take off next year (2026).
- The projects were prepared based on the draft shoreline management plan and a shoreline changes report from the **National Centre for Coastal Research (NCCR)**.

Vulnerable Districts Identified

- WRD has listed five coastal districts as high-priority erosion hotspots:
 - Mayiladuthurai
 - Worst-hit, with nearly 71% of its shoreline facing erosion.
 - Large sections of coast lost in villages like Vanagiri, Naickerkuppam, Pudukuppam (≈50 m lost in a decade)
 - Kanniyakumari, Tiruvallur.
 - Chengalpattu, Chennai.

Status of T.N. Coastline (NCCR Report)

- The NCCR study analyzed 992 km of the Tamil Nadu coastline.
- 41% of the coastline is in a stable condition.
- 39% of the coastline is facing sea erosion risk.
- Remaining coastline experiences accretion or moderate changes.

Proposed Mitigation Measures

- WRD plans a combination of nature-based and engineered solutions:
 - Nature-Based Solutions: Beach nourishment, Bio-plantation, Palm bioshields, Coral reefs, Coir structures, Oyster shell beds and “Living shoreline” systems (use natural vegetation and sediment to stabilise coast).
 - Engineered Measures: Installation of geo tubes, Groyne (recommended for densely populated high-risk locations)

T.N. Rising Summit

- Tamil Nadu will sign several MoUs in aerospace and defence at the T.N. Rising Summit in Coimbatore on November 25.
- Coimbatore is being positioned as a high-tech industrial & innovation hub.
- Focus areas of this year’s conclave:
 - Drones and small aircraft
 - Data centres
 - Digital infrastructure
 - Global Capability Centres (GCC)

About T.N. Rising Summit

- Coimbatore edition is the third T.N. Rising Summit (following Thoothukudi and Hosur), reinforcing the government’s commitment to shifting the spotlight away from the capital city of Chennai.
- The summit aims to attract investments to tier-2 and tier-3 cities.
- **Goal:** Promote balanced and inclusive industrial growth across Tamil Nadu.

Curriculum Revision Committees in**Tamil Nadu**

- High-Level Committee formed under School Education Minister Anbil Mahesh to revise and develop curricula as per Tamil Nadu State Education Policy 2025.
- **Members:** 13 members, including ISRO Chairman V. Narayanan, School Education Secretary P. Chandramohan (Vice Chairman), and Finance Secretary Udayachandran.
- Curriculum Design Committee led by environmental scientist Sultan Ahmed Ismail.
- Draft curriculum expected to be ready in December 2025.

TNRising Conclave Highlights

- 111 MoUs signed, bringing ₹42,792 crore in investments.
- 47 MoUs signed by MSMEs worth ₹1,052 crore.
- Tamil Nadu now has 12,663 startups, compared to 2,146 in May 2021.
- The Central Government recognized Tamil Nadu as a top performer in four categories for investment-friendly states.
- Over the past four years, Tamil Nadu has achieved an economic growth rate of 11.19%, which is the highest among all Indian states.

Tamil Nadu's Organ Donation**Performance**

- Tamil Nadu has recorded 240 deceased donors so far this year, nearing last year’s total of 268 donors.
- The State contributed nearly 24% of India’s total deceased donors in 2024.

- In 2024, India recorded 1,128 deceased donors, with 80% coming from five States:
 - Tamil Nadu (268)
 - Telangana (188)
 - Maharashtra (172)
 - Karnataka (162)
 - Gujarat (119)
- In 2024, Tamil Nadu achieved a record 268 deceased donors, enabling 1,446 organ and tissue transplants.
- The Tamil Nadu government began conferring State honours for deceased organ donors in September 2023, recognising their contribution to saving lives. It is the first-of-its-kind initiative in India.
- Tamil Nadu was the first Indian state to establish an organ sharing registry through TRANSTAN (Transplant Authority of Tamil Nadu).

Naan Mudhalvan Programme Expansion

- TN Skill Development Corporation (TNSDC) will expand the Naan Mudhalvan programme to Nursing and Allied Health Sciences students to improve employability in healthcare.
- Students will receive specialised training in communication skills and digital skills, tailored for hospital environments.
- Curriculum designed with inputs from MGR University, Nursing Council, and other stakeholders.

TNSkill Registry

- A new TNSkill Registry portal allows students to upload profiles for employers to access; consent-based system.

▪ 14 lakh students have benefited from the Naan Mudhalvan scheme so far.

- Over 600 companies registered across 30 sectors, including textiles, life sciences, power, telecom, BFSI, tourism, and manufacturing.
- The initiative aims to unify all trained students under a single skill registry, enhancing employment opportunities and industry connectivity.

For Folk Arts and Skill Development

- ‘Naan Mudhalvan’ programme will be expanded to benefit music and fine arts students.
- The programme would help them hone their spoken English and digital skills.

Urban Tree Census and Green Space Survey

- Forest Department to launch a comprehensive tree census and green space survey in six major cities: Chennai, Coimbatore, Tiruppur, Madurai, Tiruchi, Salem.

▪ The Forest Department has allocated ₹90 lakh for the project.

Purpose of the survey:

- Map extent, distribution, and density of green spaces.
- Use high-resolution satellite imagery and advanced geospatial technologies.

Urban Tree Inventory:

- Geo-tagging and identifying each tree species.
- Record details such as species, trunk diameter, height, canopy width, and health condition.

- Special focus will be given to indigenous and heritage trees and Trees Outside Forests (TOFs).
- Ecological services assessment: Measure benefits like carbon sequestration, air pollution reduction, storm-water management, and urban heat island mitigation.
- Web-Based Dashboard: A major component is the development of a dashboard that integrates satellite data, GIS mapping, AI-powered image processing, and ecosystem service modelling to provide real-time insights for data-driven planning.
- Integration: The results and recommendations will be incorporated into city master plans and climate resilience strategies to enhance biodiversity and climate adaptation efforts.



NATIONAL - NEWS

Arya Samaj

- The Arya Samaj was first founded in Bombay (now known as Mumbai) on 10 April 1857 by Swami Dayananda Saraswati.
- The Samaj brought about profound changes in the religious outlook of Indians.

Aim of Arya Samaj

- The aim of Arya Samaj was to eradicate poverty, injustice and ignorance from this earth.
- Furthermore, he established ten principles called Ten Niyamas or Principles.

Swami Dayananda Saraswati

- He was the founder of Arya Samaj.
- Swami Dayananda Saraswati was born on 12 February 1824.
- Real name Mul Shankar
- His literary works include Satyarth Prakash (1875).
- The book was published in more than 20 languages, including Sanskrit and some foreign languages like French, German, Arabic, English, Chinese and Swahili.

150th Anniversary of Vande Mataram

- Indian Prime Minister launches the year-long national celebration marking the 150th anniversary of India's national song "Vande Mataram" at Indira Gandhi Indoor Stadium, New Delhi.
- The event marks the start of a year-long celebration (Nov 7, 2025–Nov 7, 2026) honoring the legacy of Vande Mataram.

About Vande Mataram (National Song of India)

- Written by Bankim Chandra Chatterjee in Sanskrit (using Bengali script) in 1875.
- Featured in his Bengali novel Anandamath (1882).
- Meaning: The title "Bande Mataram" means "I praise thee, Mother", symbolising devotion to the motherland.
- First Performance: Rabindranath Tagore first sang it at the 1896 session of the Indian National Congress.
- Adoption as National Song: The Congress Working Committee adopted the first two verses as India's National Song in 1937.
- Role in Freedom Struggle: Became a rallying cry for freedom fighters, sung at protests and political meetings, symbolising unity and courage.
- Post-Independence Recognition: On January 24, 1950, Dr. Rajendra Prasad declared Vande Mataram as the National Song of India, giving it equal honour with Jana Gana Mana.
- The Constitution of India, under Article 51A(a), mandates citizens to respect the Constitution, its ideals, institutions, the National Flag, and the National Anthem; it does not specifically mention the national song.

Kashi Tamil Sangamam 4.0 (KTS 4.0)

- The Kashi Tamil Sangamam (KTS) is an annual initiative under the 'Ek Bharat Shreshtha Bharat' program, focused on strengthening the cultural and intellectual ties between Tamil Nadu and Kashi (Varanasi).
- Begins on December 2 in Varanasi and runs for two weeks.

- **Theme:** "Let us Learn Tamil - Karpom Tamil."
- **Aim:** To spread Tamil language learning across India and highlight the oneness of Bharatiya Bhasha family.
- **Significance:** Strengthens cultural and intellectual ties between Tamil Nadu and Kashi, promoting Ek Bharat Shreshtha Bharat.
- **Aim:** To dismantle inter-state synthetic drug networks, curb illegal trade of chemical precursors, and support India's Nasha Mukta Bharat Abhiyaan.

New Initiatives (2025)

- **"Tamil Karpom"** – Students from North India to learn Tamil in Tamil Nadu.
- **"Agasthya Expedition"** – Journey from Tenkasi to Kashi, showcasing Tamil Nadu's contributions. (Refer pic. 1.1)
- Celebration of the 150th anniversary of the composition of Vande Mataram
- The event will be held at the Indira Gandhi Maidan in Delhi
- The song '**Vande Mataram**', which became a star mantra in the Indian freedom struggle,

Operation White Cauldron

- The Directorate of Revenue Intelligence (DRI) busted a clandestine factory in Valsad, Gujarat, manufacturing the psychotropic drug Alprazolam, seizing drugs worth ₹22 crore under "Operation White Cauldron"
- It was composed by Bankim Chandra Chatterjee in 1875.
- The song became popular after Rabindranath Tagore sang it at the Calcutta Congress Session in 1896.
- It was adopted as the country's national anthem by the Constituent Assembly in 1950.

(Refer pic. 1.1) Past Editions

Edition	Dates	Location/Host	Key Highlights
First (KTS 1.0)	Nov 16 to Dec 15, 2022	Banaras Hindu University (BHU), Varanasi, Uttar Pradesh	Over 2,500 people from Tamil Nadu (12 walks of life) toured Varanasi, Prayagraj, and Ayodhya.
Second (KTS 2.0)	Dec 17 to Dec 30, 2023	Namo Ghat in Varanasi, Uttar Pradesh	Featured the first-ever real-time, app-based translation of the PM's speech in Tamil.
Third (KTS 3.0)	Feb 15 to Feb 24, 2025	Banaras Hindu University (BHU), Varanasi, Uttar Pradesh	Highlighted the legacy of Sage Agasthyar and bridged Indian knowledge tradition with contemporary discourse. Around 1,000 delegates participated.

First International Thirukkural Conference South Korea

- The first International Thirukkural Conference was held at Sejong University in the capital city of Seoul, South Korea.
- The conference was held on November 8, the birthday of Italian scholar Joseph Pesci (Veerama Munivar), who first translated the Thirukkural into the European language Latin in 1730.
- The conference was organized by the South Korea Tamil Research Organization under the theme 'Time-honored Truths from Society, Politics, and Culture to Global Relevance'.
- South Korea Tamil Research Organization President S. Arokiaraj, Vice President Sahayya Tarsius, Secretary D.Gnanaraj, Public Relations Officer Shanthi Prince and others participated in it.

UNICEF ambassador

- Actress Keerthy Suresh has been appointed as the ambassador of UNICEF India, the UN organization for children's rights
- Keerthy Suresh, who has received praise for her acting in languages including Tamil, Telugu and Malayalam, has now joined the group of celebrities supporting UNICEF's efforts for affected children.
- Cynthia McCaffrey is the representative of UNICEF India.

United Nations Children's Fund (UNICEF)

- Nobel Peace Prize for 1965.
- Year founded: 1946,
- Place founded - New York, USA

- An international aid organization founded by the UN.
- It seeks to promote unity among nations and to reduce the gap between rich and poor nations."
- Since the early 1950s, the organization has set long-term goals aimed at developing countries.

Hamara Shauchalaya, Hamara Bhavishya Campaign

- The Ministry of Jal Shakti launched the nationwide "Hamara Shauchalaya, Hamara Bhavishya" campaign on World Toilet Day 2025.
- **Aim:** To upgrade rural toilets, enhance their maintenance, and promote community-led sanitation responsibility across Gram Panchayats

Second Regional Open Digital Health Summit 2025

- India is hosting the second Regional Open Digital Health Summit (RODHS) 2025 in New Delhi, bringing together WHO-SEARO nations to advance interoperable digital health systems.

About Second Regional Open Digital Health Summit 2025

- The Regional Open Digital Health Summit 2025 is a three-day multilateral platform convened by India, WHO-SEARO, UNICEF, and partner governments to accelerate standards-based digital health transformation in South-East Asia.

Indian Railways Freight

- Indian Railways' total freight traffic crossed 100 crore tonnes in the current financial year as of 19.11.2025, marking a new record.

- Freight traffic from April–October 2025 reached 93.51 crore tonnes, up from 90.69 crore tonnes in the same period last year.
- Growth reflects Railways' enhanced capacity to support industrial growth and infrastructure development.
- Indian Railways has introduced major reforms to boost cement freight capacity.
 - Launch of a new policy for bulk cement depots.
 - Tariffs for bulk cement transport rationalised to improve efficiency.

Indian Navy International Fleet Review 2026

- Indian Navy to hold International Fleet Review (IFR) in Visakhapatnam, February 2026.
- **Theme:** "United through Oceans" and strengthening "Bridges of Friendship".
- This IFR coincides with the 75th anniversary of the Republic of India.
- India last conducted an IFR in 2001 (at Mumbai) and the most recent one was in 2016 (at Visakhapatnam), making the 2026 event the third International Fleet Review hosted by India.

Environmental & Economic Benefits

- Reduced carbon emissions and highway congestion
- Provides eco-friendly transport solutions for industries, including MSMEs
- Supports India's goal of achieving zero carbon emission targets
- Indian Navy participates in nearly 20 bilateral exercises, including SIMBEX, Varuna and CORPAT, and several multilateral engagements such as QUAD, MILAN, Malabar and Konkan.

Population in A&N and Lakshadweep

- The populations of both island territories are projected to increase by 2051, according to the report 'Unravelling India's demographic future: population projections for States and Union Territories 2021-2051.'
 - Title: "Unravelling India's demographic future: population projections for States and Union Territories 2021-2051."
 - Lakshadweep Islands population expected to rise by 9.68%, from 67,642 (2016) to 74,194 (2051).
 - Andaman & Nicobar Islands population projected to grow by 5.73%, from 3,98,310 (2016) to 4,21,135 (2051).
- Operation Sagar Bandhu**
- India launched "Operation Sagar Bandhu" to provide relief to cyclone-affected Sri Lanka (battered by Cyclone Ditwah).
 - First tranche of essential relief supplies delivered via INS Vikrant (aircraft carrier) and INS Udaygiri (stealth frigate).
 - **Prime Minister affirmed that the aid is guided by:**
 - India's Neighbourhood First policy
 - Vision MAHASAGAR (Mutual And Holistic Advancement for Security and Growth Across Regions).

NATIONAL SCHEMES

Great Nicobar Project: Denotification of Tribal Reserve

- The Andaman and Nicobar Islands administration has prepared a GIS-based map for the denotification and renotification of tribal reserve land for the Great Nicobar Island (GNI) mega-infrastructure project.
- The project, worth Rs.92,000 crore, is being developed by the **Andaman and Nicobar Islands Integrated Development Corporation (ANIIDCO)**.
- Transit accommodation for the initial project staff on Great Nicobar Island has already been constructed.
- The **Tribal Welfare Department and Forest Department** jointly developed the GIS map to identify areas for denotification and new tower sites.
- **Denotification of tribal reserve land** can proceed only after settling forest rights under the **Forest Rights Act, 2006**.

Electronic Components Manufacturing

- The Central Government has approved 17 new projects with an investment of Rs. 7.172 crore under the Electronic Components Manufacturing Scheme (ECMS), which was introduced with an aim to increase the production of electronic components in the country.
- Through these 17 projects. The total value of production of key components like camera module connector gun, multi-layer PCB (Ach

Sub-Board) oscillators, power enclosures etc. is expected to be Rs. 65.111 crore.

- IPL Circuit India, Agus Consumer Products Uno Minda. Axs Safety Components India, Jetfab India, TE Connectivity India, Meena Electrotech are the major players involved in these projects to be implemented in the states.
- India is poised to become a major electronics manufacturing hub.

Import agreement

- India's public sector oil companies have successfully concluded a one-year agreement to import liquefied petroleum gas (LPG) from the US Gulf Coast, the Minister for Petroleum and Natural Gas said.
- India will import about 2.2 million tonnes per annum from the US Gulf Coast for the contract year 2026. (MTBA) will get LPG, he said
- This marks the "first structured deal of US LPG for the Indian market".
- The move comes against the backdrop of India facing 50% duties on exports to the US and several Indian ministers saying that India wants to import more energy from the US.

16th Finance Commission report submitted to the President

- The report of the 16th Finance Commission, which is responsible for formulating tax sharing policy between the Centre and states, has been submitted to the President.
- The report will define new criteria for how much funds and subsidies should be allocated to states from the total tax revenue of the Centre.

- The report will come into effect for the next 5 years from 2026-27.
- Chairman of the 16th Finance Commission, Ravind Panagariya and other members, met the President at his residence and submitted the report.
- Earlier, the N.K. Singh-led 15th Finance Commission. It had recommended sharing 41 percent of the total tax revenue of the Central Government to the states for the 5-year period from 2021-22 to 2025-26.
- 16th Finance Commission. It was constituted on December 31, 2023.

Digital Initiatives to modernize the Public Distribution System (PDS)

- Union Food & Public Distribution Ministry launched several digital platforms to modernise PDS operations, warehousing and logistics.

Anna Sahayata Holistic AI Solution (ASHA)

- AI-based platform enabling PDS beneficiaries to share feedback via AI-enabled multilingual calls.
- Features: multilingual translation, sentiment analysis, automated grievance categorisation, real-time dashboards.
- Reaches 20 lakh beneficiaries per month.

Bhandaran 360

- Central Warehousing Corporation's (CWC) new Enterprise Resource Planning (ERP) system with 41 integrated modules (HR, finance, warehouse management, contracts, projects, etc.).
- Implemented ahead of schedule.

Smart EXIM Warehouse System

- For container freight stations and general warehouses.

ANNA DARPAN

- New **microservices-based platform** replacing the older Depot Online System.
- It integrates and connects all key grain operations.
- It serves as a single unified source of truth for both the FCI and the Department of Food & Public Distribution.

National Action Plan on Antimicrobial Resistance 2.0 (NAP-AMR 2.0)

- India has launched the National Action Plan on Antimicrobial Resistance 2.0 (2025–29) at the start of WHO's World AMR Awareness Week.
- **Launched by:** Union Ministry of Health & Family Welfare
- NAP-AMR 2.0 is India's updated five-year strategic framework (2025–29) to combat rising antimicrobial resistance through a One Health approach covering human, animal, agriculture, and environmental sectors.
- It builds upon the gaps identified in the **first National Action Plan (2017–2021)** and aligns with the Global Action Plan on AMR by the WHO.
- It includes specific action plans of each key stakeholder ministry/department with timelines and budget to enable effective monitoring of progress in implementation.

Scheme for Rare Earth Permanent Magnets (REPM)

- The Union Cabinet approved a ₹7,280 crore

scheme to manufacture Rare Earth Permanent Magnets (REPM) in India.

- The scheme, named “Scheme to Promote Manufacturing of Sintered Rare Earth Permanent Magnets”, is the first-of-its-kind initiative in India.
- 5 factories will be set up to produce 1,200 metric tons of magnets per year.
- The objective is to establish 6,000 metric tonnes per annum (MTPA) of integrated REPM manufacturing, enhancing self-reliance and positioning India as a key player globally.
- Applications of REPMs include electric vehicles, renewable energy, electronics, aerospace, and defence.
- The scheme supports end-to-end REPM manufacturing: conversion of rare earth oxides → metals → alloys → finished REPMs.
- **Total Scheme Duration:** 7 years (2 years for setup, 5 years for incentive disbursement)



REPORTS & INDICES

The UNEP Emissions Gap Report 2025

- The UNEP Emissions Gap Report 2025 titled “Off Target” warns that despite new climate pledges, the world remains on course for 2.3–2.5°C warming, far exceeding the Paris Agreement goals.
- The 16th edition of UNEP’s annual assessment that measures the “gap” between projected emissions and the levels needed to limit global warming.
- **Published by:** United Nations Environment Programme (UNEP).
- **Aim:** To evaluate countries’ Nationally Determined Contributions (NDCs), analyse the global temperature trajectory, and recommend actions for aligning with the 1.5°C and 2°C Paris targets.

Periodic Labour Force Survey (PLFS)

- The Periodic Labour Force Survey (PLFS) for July–September 2025 was conducted by the Labour Bureau.
- The rural unemployment rate (15 years and above) declined to 4.4% from 4.8% in the previous quarter (April–June 2025).
- The urban unemployment rate increased slightly – males: 6.1% → 6.2%; females: 8.9% → 9.0%.
- The overall unemployment rate (15 years and above) dropped to 5.2% from 5.4% in the previous quarter.
- The rural workforce continued to be concentrated in the agriculture sector, which

rose to 57.7% from 53.5%, mainly due to seasonal agricultural operations.

- In urban areas, the tertiary sector remained dominant, employing 62% of workers (up from 61.7%).
- The female Labour Force Participation Rate (LFPR) increased to 33.7% (from 33.4%).

Geographical Indication

- Marble from Ambaji, a major pilgrimage site and Shakti Peeth in Gujarat, has been granted the Geographical Indication (GI) tag for its high-quality white stone.
- The Geographical Indications Registry under the Ministry of Commerce and Industry has granted the tag in the name of the Amb-Bhaji Marble Quarry and Factory Association in Pa-Naskhand district.
- Known for its strength and high calcium content, this marble is also used in temple construction in the US, New Zealand and the UK.

QS World University Sustainability Rankings 2026

- **103 Indian universities** feature in the QS World University Rankings for Sustainability 2026.
- India ranks **4th globally** in number of institutions included – after the **U.S., China and the U.K.**
- India has 12 universities placed in the global Top 500, matching countries like China and the Netherlands.
- The **Indian Institute of Technology (IIT), Delhi**, is the highest-ranked Indian institution, placed globally at 205.

AWARDS & HONOURS

Lifetime Achievement Award

- The 5th Annual Conference of the "International Confederation of Educational Associations", which was attended by government and private universities, was held in Delhi.
- Former Union Minister Murali Manohar Joshi honored the Lifetime Achievement Award to the Chancellor of VIT University, Vellore, Go. Viswanathan.

Best Bank Award

- This award was presented to Kanchipuram District Central Cooperative Bank. This bank was established on May 23, 1915, and has been serving the people for 110 years.
- This award was presented to this bank for providing loans to 831 differently-abled people to start their own businesses in the financial year 2023-24.

Central Government Medal Announcement

- To encourage those who work well in the police, the 'Kendriya Grihmantri Dakshata Padak' (Medal for Merit) is awarded by the Union Home Ministry every year on October 31 on the occasion of the birth anniversary of Sardar Vallabhbhai Patel.
- This medal is awarded to recognize excellent work in the fields of excellent work, investigation, investigation and forensic science, and to encourage high-level professional activities and the morale of the officers concerned.

- The Union Home Ministry's 'Kendriya Grihmantri Dakshata Padak' for the year 2025 have been announced for 1,466 people from various states.

- Three people from Tamil Nadu, Assistant Commissioner of Police N. Pesir Fathima, Police Inspector S. Jayalaxmi, and Forensic Science Department's Nta Usharani, have been included in the list.

National Water Awards

- This award was announced by the Union Ministry of Jal Shakti.
- Tirunelveli has received the award for the best district in the southern region.

Purpose

- The National Water Awards are given in recognition of the good work and efforts undertaken to achieve the vision of the Central Government of "Water-rich India".
- These awards are given to create awareness among the public by highlighting the importance of water and encouraging them to adopt best practices in water use.
- The awards have been announced in a total of 10 categories including Best State, Best District, Best Village Panchayat, Best Urban Local Body, Best Water User Association.

Best State	Maharashtra
	Gujarat
	Haryana
Best District	Tirunelveli ranked first in the Southern Region. Best Water User Association
Best Water User Association	Coimbatore District Vettaikaran Puthur Canal Udayakulam Village Water User Association

Best Village Panchayat	Tiruvallur District Balapuram Panchayat-1
	Chhattisgarh - Kanker District - Dhumarpani Panchayat- 3rd place
Best Industrial Establishment	Apollo Tyres in Kanchipuram - 1st place

Thota Dharani by the French Ambassador to India Thierry Mathaud at a ceremony held on 13.11.25 at the Alliance Francaise complex in Nungambakkam, Chennai.

Thota Dharani was awarded the highest Chevalier award of France in recognition of his contribution to art and the film industry over the past 64 years.

Dharani is known for creating the most realistic 'sets' for South Indian language films. Thota Dharani had realistically displayed his artistic skills in films including Nayagan, Indian, Jeans, and Ponniyin Selvan.

The 'Chevalier' award, given in the fields of art and literature, has been given to actors Sivaji Ganesan (1995) and Kamal Haasan (2016).

Water Conservation Projects

- Telangana tops, Coimbatore second
- Under the Central Government's 'People's Participation in Water Conservation' initiative, the states have been divided into 5 zones
- Districts are encouraged to set up at least 10,000 water conservation structures.
- The Central Government provides incentives to awardees for constructing, renovating and maintaining artificial groundwater conservation structures such as rooftop rainwater harvesting.

In water conservation projects,

- Telangana has topped.
- Chhattisgarh has come second,
- Rajasthan has come third.
- In the Southern Zone,
 - Coimbatore has come second,
 - Namakkal has come 10th and
 - Ramanathapuram has come 13th.
- These awards will be presented along with the National Water Awards on 18th November at the Republic Day Chairman Thirupathi Murmu will deliver.

Chevalier Award

- The French government's highest Chevalier award was presented to film art director

Awards for the Best companies for Women to work in

It is noteworthy that the award for the best companies for women to work for is presented to them.

The Avatar Group, India's leading workplace culture consultancy, has announced the award for the best companies for working women.

The event was held in Chennai.

The top 10 best companies for working women in India were honored with awards.

Women working in 10 companies, namely Accenture Solutions, AXA XL, Cairn Oil and Gas, EY, KPMG, MasterCard, Aptum Global Solutions, Procter & Gamble, Tech Mahindra, and Wipro, received the Avatar Group awards

Dr. S. R. Ranganathan Awards

- About 40 librarians across Tamil Nadu received the awards from School Education Minister Anbil Mahesh Poyyamozi at the Anna Centenary Library.
- 25 librarians received Library Enthusiast Awards (readers circle).
- 12 libraries received trophies for securing the highest donations and patrons.
- The awards are instituted in memory of Dr.S.R.Ranganathan, known as the Father of Library Science in India.
- They are presented annually to selected librarians in the State.
- Award-winning librarians were conferred a special certificate, a 50-gram silver medal, and a cash prize of Rs. 5,000.

Ilakkiya Maamani Awards

- Tamil Nadu Chief Minister presented the 2024 Ilakkiya Maamani Awards to Tamil scholars:

Name	District	Category
Prof. T.Gnanasundaram	Chennai	Traditional Tamil
Dr.R. Kamarasu	Thiruvarur	Research Tamil
Somasundaram (A) Kalapriya	Tenkasi	Creative Tamil

- **Award Details:** Each award includes a cheque for Rs.5 lakh, a one-sovereign gold medal.
- **Purpose:** The awards, presented annually since 2021 by the Tamil Nadu government, recognize scholars who have contributed to the enrichment of Tamil and its literature.
- The award was instituted following the CM's announcement on 03.06.2021 (Karunanidhi's

birthday), to honour 3 scholars each year across: Traditional Tamil, Research Tamil and Creative Tamil

- A total of 12 scholars have received the Ilakkiya Maamani Award so far.

Tamil Isai Sangam Awards

- Dancer Chitra Visveswaran has been selected for the Tamil Isai Sangam's Music Master Award for the year 2025, and Thirumurai Isaivanar Kudanthai V. Lakshmanan has been selected for the Pan Music Master Award.
- Chitra Visveswaran, who will receive the Music Master Award, has received the Central Government's Padma Shri Award and the Tamil Nadu Government's Kalai Mamani Award.

International Transport Project Award

- Chennai Metro Rail Corporation has been awarded the International Transport Project Award.
- The Global Energy and Environment Organization has awarded the award for the best sustainable urban transport in the world.
- The award was presented to M.A. Siddique, Managing Director of Chennai Metro Rail Corporation, at the recently held Global Sustainable Development Summit 2025 in New Delhi.
- The award was given on the basis of the implementation of environmentally friendly activities.

Children Welfare Service Awards

- As announced in the Legislative Assembly

by the Social Welfare Department, the Child Welfare Service Awards are given to recognize and encourage institutions and units operating under the Directorate of Child Welfare and Special Services.

- Date of announcement of the awards scheme: November 27, 2025.
- The Minister had announced this during the grant request of the Social Welfare and Women's Rights Department for the financial year 2025-2026.

Awards for this year

Sections	Districts	Name of the homes
Government Children's Homes	Thanjavur	Annai Sathya Ammaiyar Memorial Government Children's Home
Children's Homes operating under voluntary organizations	Thoothukudi	St. Marianne's Home
Homes for children considered to have acted contrary to the law	Chennai	Government Foresight Home
District Child Protection Unit	Ramanathapuram	District Child Protection Unit

The Chief Minister has given awards and presented cheques of Rs. 1 lakh each as prize money.

BOOKS & AUTHORS

M.S. Swaminathan's Biography Release

- **Book Title:** The Man Who Fed India
- **Author:** Priyambada Jayakumar.

- The biography traces Swaminathan's life – from his childhood in Kumbakonam, early exposure to agriculture, and his collaboration with Norman Borlaug, which led to India's Green Revolution.

IMPORTANT DAYS

Tamil Nadu Day

- After India gained independence on 15 August 1947, the Madras Province became the Madras State.
- The boundaries of the state were reorganized linguistically as a result of the States Reorganization Act of 1956.
- The state of Tamil Nadu was formed on 1 November 1956 as the Madras State.
- On 18 July 1967, the state assembly passed a resolution moved by former Chief Minister C.N. Anna Durai to change the name of the then Madras Province to Tamil Nadu.
- Traditionally, 1 November is observed as the State Reorganization Day.

International Day for the Prevention of the Exploitation of the Environment in War and Armed Conflict 2025

- International Day for the Prevention of the Exploitation of the Environment in War and Armed Conflict 2025
- Observed on **6 November**, this UN day highlights the urgent need to protect the environment in times of war and armed conflict,
- Stresses peace, stability and global cooperation. Every year on 6 November, the world observes the International Day for the Prevention of the Exploitation of the Environment in War and Armed Conflict

Historical Background

- Origin of this day On 5 November 2001, the United Nations General Assembly adopted resolution A/RES/56/4,
- Officially proclaimed 6 November as the International Day for the Prevention of the Exploitation of the Environment in War and Armed Conflict.
- On 27 May 2016, the United Nations Environment Assembly adopted resolution.

National Education Day 2025

- National Education Day is celebrated every year on November 11 in India.
- **Theme for 2025 (UN):** "AI and Education: Preserving Human Agency in a World of Automation"
- The day honors Maulana Abul Kalam Azad, India's first Education Minister and a key architect of modern education.
- The observance was announced in September 2008 by the Ministry of Human Resource Development (now Ministry of Education).

World Pneumonia Day 2025

- Every year, **World Pneumonia Day** is celebrated on **November 12** by World Health Organization, UNICEF and several other international organizations.
- The theme for World Pneumonia Day 2025 is "**Child Survival**".
- The theme highlights the need to protect children from pneumonia, which remains the leading infectious cause of death in children.

Jawaharlal Nehru's Birthday

- India celebrates Children's Day on November 14, to celebrate Nehru's 137th birthday.

Who was Jawaharlal Nehru?

- Born: November 14, 1889 in Allahabad, Uttar Pradesh.
- Father's name: Motilal Nehru - Mother's name: Swarup Rani
- Writer, politician, social activist and lawyer who became prominent as the face of the Indian national movement against British rule in India.
- He was the first Prime Minister of India
- Nehru said that a princely state should join the Constituent Assembly, and he also affirmed that there would be no princely states in independent India.
- He appointed Vallabhbhai Patel to oversee the effective integration of the states.
- India became a sovereign democratic republic on January 26, 1950, when the new Constitution of India came into effect.
- In order to divide the states on the basis of language, Jawaharlal Nehru formed the States Reorganisation Committee in 1953.
- Apart from promoting democratic socialism, he also promoted the industrialisation of India by implementing the first five-year plans.
- The Non-Aligned Movement (NAM) is considered his greatest geopolitical achievement.

- He promoted democratic socialism during his 17-year tenure as Prime Minister, highlighting the need for India to achieve both democracy and socialism.

- His internal policies were based on the four principles of democracy, socialism, unity and secularism. He was able to combine these pillars in the construction of a new independent India.

- Books written: The Discovery of India, Perspectives on World History, An Autobiography, Letters from a Father to His Daughter.

- Death: May 27, 1964.

World Diabetes Day

- World Diabetes Day is observed annually on 14 November to raise awareness about diabetes worldwide

- The theme for 2025, "Diabetes across life stages".

- World Diabetes Day is observed on the birthday of Frederick Banting

Diabetes:

- Diabetes is a non-communicable disease (NCD) that occurs when the pancreas does not produce enough insulin or when the body cannot effectively use the insulin it produces.

- Uncontrolled diabetes can lead to serious health complications including heart disease, kidney failure and vision loss.

- Types: Diabetes-1 and Type-2 Diabetes

- In India, only 28% of women and 29% of men with diabetes receive treatment.

- The prevalence of diabetes in India has quadrupled since 1990, and now affects 11.4% of the population.

Government of India's efforts to prevent diabetes:

- National Programme for Prevention and Control of Non-Communicable Diseases
- Pradhan Mantri Bharatiya Janaushati Pariyojana (PMBJP)

Tribal Day

- Tribal Day is celebrated every year on 15th November to commemorate the birth anniversary of Birsa Munda, a tribal freedom fighter and anti-colonial leader.
- This year marks his 150th birth anniversary.
- This day is celebrated to celebrate the sacrifice and struggles of Birsa Munda and other Indian tribal leaders against colonial rule and to celebrate the diverse tribal culture and heritage of the country.
- The Union Ministry of Tribal Affairs is implementing various schemes to promote tribal history and culture.
- The Central Government is making efforts to establish 11 museums to celebrate the contribution of historic tribal freedom fighters.

National Press Day

- **November 16** is a symbol of free and responsible journalism in India.
- This is the day when the Press Council of India began to act as a moral watchdog to ensure that the press is not only maintained at the high standards expected from a powerful

media outlet but also is not controlled by the influence or threats of any external factors.

- While there are many press or media councils around the world, the Press Council of India is unique in that it is the only body that has the authority even over the instruments of the state in the duty of protecting press freedom.

World Children's Day

- **Observed on:** November 20
- **UNICEF's 2025 Theme:** "My Day, My Rights" and "For Every Child, Every Right"
- First observed in 1954.
- **1959:** UN adopted the Declaration of the Rights of the Child.
- **1989:** Adoption of the UN Convention on the Rights of the Child (UNCRC) – the most widely ratified human rights treaty (196 countries).
- **India's Children's Day:** November 14 (Birth Anniversary of Jawaharlal Nehru)

India's Achievement

- According to the National Multidimensional Poverty Index, India has helped 2.8 crore people, including children, move out of poverty between 2013-14 and 2022-23.
- As a result, the country's multidimensional poverty rate has declined from 29.2% to 11.3%.
- Strong social sector investments drove major poverty reduction.
- Key schemes contributing to progress: Poshan Abhiyan, Samagra Shiksha, PM-Kisan, Mid-Day Meal, Beti Bachao Beti Padhao, Swachh Bharat, Jal Jeevan Yojana.

- India's robust digital public infrastructure enabled efficient delivery of welfare services at scale.

World Fisheries Day 2025

- World Fisheries Day, observed annually on **21st November**, traces its origin to the formation of the World Fisheries Forum in 1997.
- The theme for 2025 is "India's Blue Transformation: Strengthening Value Addition in Seafood Exports."
- India is the second-largest fish-producing country and among the world's top shrimp producers.

International Day for Elimination of Violence Against Women 2025

- It is observed annually on **November 25**.
- Theme for 2025: "UNiTE to End Digital Violence Against All Women and Girls"

National Constitution Day of India (Samvidhan Divas)

- National Constitution Day is observed every year on 26 November to mark the adoption of the Indian Constitution in 1949.
- The Indian Constitution took 2 years, 11 months, and 18 days to draft—from 9 December 1946 to 26 November 1949.

- The day emphasises the contributions of Dr. B.R. Ambedkar, the chairman of the Drafting Committee and principal architect of the Constitution.

History

- Officially declared Constitution Day on 19 November 2015, during Dr. Ambedkar's 125th birth anniversary year.
- Before 2015, the day was observed informally as Law Day.

Drafting Timeline

- First meeting of the Constituent Assembly: 9 December 1946.
- Drafting Committee formed under Ambedkar: 29 August 1947.
- Final draft presented for debate: 4 November 1948.
- Constitution adopted: 26 November 1949.
- Constitution came into force: 26 January 1950.

World AIDS Day

- World AIDS Day is observed on December 1 every year.
- It was first marked in 1988 by the World Health Organization (WHO).
- Theme 2025: Overcoming disruption, transforming the AIDS response.

DEFENCE

New Guard Establishment

- The Indian Army has strengthened its eastern border by setting up three new guard posts.
- The new establishments include the Lachit Bor Phukan military station in Assam's Dhubri district and forward posts at Kish Anganj in Bihar and So-Phra in West Bengal, all located close to the India-Bangladesh border.
- The Siliguri corridor, a short land link to India's eight northeastern states, is strategically important, and the additional guard posts will improve surveillance in the region, the official added.
- Wing Commander Hi-Manshu Tiwari, Chief PRO, Ministry of Defence, Kolkata, also laid the foundation stone for the Lachit Bor Phukan military station in Pamunikhana
- Named after an Ahom commander.
- The Indian Army has appreciated the support extended by the Assam government and local administration for the speedy establishment of the station.

Exercise Ajeya Warrior-2025

- A **biennial India-UK military** exercise focusing on counter-terrorism.
- The 14-day bilateral exercise is scheduled from November 17-30.
- **Aim:** To enhance tactical proficiency, joint mission planning, and coordinated responses in semi-urban counter-terror settings.
- **Host:** Mahajan Field Firing Ranges, Rajasthan (Foreign Training Node).

7th Meeting of the National Security Advisers (NSAs)

- Colombo Security Conference (CSCR) held in Delhi on 20 November 2025.

- The conference was chaired by India's National Security Advisor (NSA), Ajit Doval.
- NSAs from Maldives, Mauritius, Sri Lanka, Bangladesh; Seychelles invited as visiting country, Malaysia as guest country.
- **Agenda:** Discussions on maritime security, terrorism, transnational organized crime, cyber security, critical infrastructure security, humanitarian assistance, disaster relief.
- The discussions will focus on reviewing activities under the five core pillars of cooperation and formulating the Action Plan for the year 2026.
- **Purpose:** Enhance cooperation among member countries to improve security in the Indian Ocean region. 6th NSA Conference held in Mauritius, December 2023.

Exercise 'Sagar Kavach'

- 'Sagar Kavach' is a biannual multi-agency coastal security exercise conducted along India's coastline to assess real-time preparedness against seaborne threats, intrusions, and infiltration attempts.
- Conducted in **Cuddalore and Villupuram districts**, covering coastline, fishing harbours, and vital installations.
- Held as a two-day exercise November 20 - 21, 2025.
- Jointly carried out by the **Indian Coast Guard, Indian Navy, district police, Coastal Security Group (Tamil Nadu Police)** and other coastal security stakeholders.

Mahe-Class Ship

- **First Mahe-class anti-submarine warfare (ASW) ship** to be commissioned on 24.11.25.
- Marks induction of the **first shallow-water ASW ship** of this class into the Indian Navy.

- Begins a series of indigenously built shallow-water ASW ships.
- It is deployed to prevent terrorist activities using drones along the India-Pakistan border.
- Over 80% components are made in India, highlighting indigenisation.
- Developed by the company Indrajal, the vehicle is named 'Indrajal Ranger'.

HAMMER Precision Weapon System

- Bharat Electronics Limited (BEL) and France's Safran Electronics & Defence have signed a Joint Venture Cooperation Agreement to manufacture the HAMMER precision Weapon System.
- Its objectives are to save lives, neutralize enemy drones, and strengthen national security.
- The HAMMER (Highly Agile Modular Munition Extended Range) is a smart, precision-guided, air-to-ground weapon designed to strike hardened targets with high accuracy from stand-off ranges.
- Developed by: Originally developed by Safran (Sagem), France, and now set for joint manufacturing with BEL in India.

Roadmap for a Future-Ready Integrated Force

- Indian President inaugurated the Indian Army's Chanakya Defence Dialogue-2025 and praised the armed forces for their professionalism and patriotism.
- Army chief General Upendra Dwivedi unveiled a comprehensive three-phase road map to transform the Army into an integrated, future-ready force by 2047.
- The plan is aligned with the vision of Viksit Bharat and the government's push for reforms and technological advancement.
- The declaration of 2025 as the "Year of Reforms" by the Defence Minister has accelerated the Army's modernisation efforts.

Exercise Suryakiran

- India and Nepal will launch the 19th edition of Exercise Suryakiran from November 25 to December 8 in Pithoragarh, Uttarakhand.
- Exercise Suryakiran is a bilateral, annual, battalion-level military exercise conducted alternately by India and Nepal to enhance defence cooperation, coordination, and military preparedness.
- Aim: To improve operational synergy in jungle warfare, counter-terrorism operations, mountain warfare, and integrate modern technologies for improved interoperability and tactical coordination.

Three Phases of Transformation

- **Phase 1 (till 2032):**
 - Forms the core of the Army's "Decade of Transformation".
 - Focus on capability development, force restructuring, and enhanced operational readiness.
- **Phase 2 (2032-2037):**
 - Consolidation phase to strengthen and stabilise gains achieved in the first decade.
- **Phase 3 (2037-2047):**
 - Envisions a fully integrated force design prepared for next-generation warfare.

AI-Enabled Anti-Drone Patrol Vehicle

- India has introduced its first anti-drone patrol vehicle equipped with AI technology.
- The vehicle can detect and destroy enemy drones in motion.

SPORTS & GAMES

Women's World Cup Cricket Tournament

- In the final match of the 2025 Women's World Cup Cricket Tournament, the Indian Women's Team defeated the South African Women's Team and became the champion.
- India has created history by becoming the champion for the first time in the Women's World Cup.

Hockey India Centenary Celebration

- Hockey India Centenary Celebration was held at Major Dhyan Chand National Stadium in Delhi.
- On November 7, 1925, Indian Hockey was affiliated with International Hockey Federation (FIH).
- The Indian team won gold medals in the early Olympic Games of 1928, 1932 and 1936
- Dhyan Chand is the father of Indian Hockey.

World Shooting Championship

- Ravinder Singh, 20, who is serving as a Havildar in the Indian Army, won the gold medal by finishing first in the men's 50m free pistol category at the ISSF World Shooting Championship 2025 held in Cairo, Egypt.
- India's Anish Bhanwala won the silver medal at the World Shooting Championship held in Egypt.

'FIH Hockey Men's Junior World Cup

- The Deputy Chief Minister of Tamil Nadu

introduced 'Kangayan', the mascot for the FIH Junior Men's World Cup Hockey tournament, and also inaugurated the trophy tour.

- The 14th Junior Men's World Cup Hockey tournament will be held in Chennai and Madurai from Nov. 28 to Dec. 10 on behalf of the International Hockey Federation, Hockey India and Sports Development Authority of Tamil Nadu.

National Karting Championship

- 9-year-old Arshi Gupta from Haryana has become the first female competitor from India to win the National Karting Championship.

Asian Archery Championship

- The tournament was held in Bangladesh.
- India won 5 medals in the tournament, including 3 gold and 2 silver.
- In the compound women's team event, the Indian team consisting of Jyoti Surekha, Deepshika and Prithika Pradeep defeated the South Korean team to win the gold medal
- The compound men's team event defeated the Bangladesh team to win the third gold medal for India.
- Paris Olympians P. Dhiraj and Ankita Bhagat became the first Indian male and female recurve archers to win individual titles at the Asian Championships.
- The tournament is being held in Dhaka.
- In the women's recurve final, India's Ankita Bhagat defeated Paris Olympics silver medallist Suhyeon of South Korea to win the gold medal.

- India's Dhiraj Bommadevara defeated compatriot Rahul to win the gold medal in the men's recurve final.

Sydney Squash Tournament

- The Ponty Open PSA Challenger Squash Tournament was held in Sydney, Australia.
- India's Radhika Seelan defeated New Zealand's Maiden-Leeko to win the championship title.
- This is the 2nd PSA title won by the 24-year-old from Tamil Nadu.

Shooting World Championship

- India's Isha Singh won a bronze medal at the Shooting World Championship in Egypt.
- Isha Singh won her first individual medal at the World Championship. Another Indian in the field, Manu Bhaker, a double medalist at the Paris Olympics, finished 5th

National Disaster Rescue Competition

- The National Disaster Rescue Competition was held in Ghaziabad, Uttar Pradesh, from November 10 to 12.
- Tamil Nadu Police won the first place in the National Disaster Rescue Competition held on how to protect the public during a terrorist attack.
- The 13th team of the Tamil Nadu Special Police Force functions as the Tamil Nadu State Disaster Rescue Team in the Tamil Nadu Police Department.
- The competition was held with the aim of how to respond quickly and protect the public during chemical, biological, radiological, nuclear and terrorist attacks in 2025. The

competition was held with the aim of rescuing victims and cleaning up affected areas.

Deaf Olympics Competition

- The Deaf Olympics for the deaf is being held in Tokyo, Japan.
- Indian athlete Dhanush Srikanth won gold in the men's 10-meter air rifle event by finishing first.
- Indian athlete Mohammad Murtaza Vaniya won silver in the same category by finishing second.
- Anuya Prasad has won gold in the 10m air pistol women's category in the Deaflympics pistol shooting competition for the hearing impaired in Japan
- In the same, Pranjali Prashant Dhumal has won silver.
- Anuya, Pranjali This is the 2nd gold at the international level for Anuya, who won gold in the World Championship held last year.
- Meanwhile, India's Abhinav Deshwaal won a silver medal by finishing 2nd in the 10m air pistol men's category.
- Abhinav Deshwaal, who won gold in the last 2022 Deaflympics, this time came first with a world record and advanced to the finals.
- With this, India's medal tally in shooting alone has reached 7, with 2 gold, 1 silver and 1 bronze.
- At the Deaflympics in Japan, Indian mixed pairs won gold and bronze medals in shooting.
- In the 70m air rifle mixed event, the pair of Dhanush Srikanth and Mahit Sandhu defeated South Korea's Jeon Dion and Kim Woorim to win gold.

- The duo of Mohammed Murtaza Vaniyakomal and Milind Waghmare beat Ukraine's Violeta Lykova and Alexander Kostyk to secure the bronze.
 - **Location:** Japan
 - **Gold Medal:** India – Abhinav Deshwal & Pranjali Prashant Dhumal defeated Chinese Taipei's Ya Zhu Qavi and Ming Jui
 - **Bronze Medal:** Iran – Mahla Sami & Bijan
 - Deaflympics 2025 is being held in Tokyo, Japan.
 - India's Mahid Sandhu won her third medal in rifle shooting.
 - She secured a silver medal in the women's 50m rifle prone event.
 - Eliska Svobodova (Czech Republic) won gold; Mira Kaszana (Hungary) won bronze.
 - The Deaf Olympics are being held in Boko, Japan.
 - In the men's 50m 3 Positions rifle shooting event, India's **Saurya Saini** secured **2nd place** and won the **silver medal**.
 - India's **Abhinav Deshwale** has won a **gold medal in the 25m pistol** individual event at the Deaflympics for the hearing impaired in Japan.
 - **India's Mahit Sandhu** has won her **4th medal in the women's 50m pistol** event at the Deaflympics.
 - The Deaf Olympics are being held in Boko, Japan.
 - In the men's 50m 3 Positions rifle shooting event, India's **Saurya Saini** secured **2nd place** and won the **silver medal**.
 - India's **Abhinav Deshwale** has won a **gold medal in the 25m pistol** individual event at the Deaflympics for the hearing impaired in Japan.
 - **India's Mahit Sandhu** has won her **4th medal in the women's 50m pistol** event at the Deaflympics.
 - India's **Abhinav Deshwale** has won a **gold medal in the 25m pistol** individual event at the Deaflympics for the hearing impaired in Japan.
 - **India's Mahit Sandhu** has won her **4th medal in the women's 50m pistol** event at the Deaflympics.
- World AbilitySport Games**
- Held in Thailand from 17th to 24th.
 - Chennai ICF player Sonai Murugan participated in the javelin and discus throwing competitions.
 - Accordingly, he won a gold medal in javelin throwing and a silver medal in discus throwing.
- Shooting World Championship**
- India's Gurpreet Singh has won a silver medal in the competition held in Egypt.
 - This is Gurpreet's 2nd individual medal in the World Championship.
- World Tennis League Series**
- The World Tennis League will be held in India for the first time, from December 17 to 20, at the S.M. Krishna Tennis Stadium in Bengaluru.
 - The four-day tournament is organised by Iconic Sports.
- Indian Pickleball League**
- The Deputy Chief Minister unveiled the teams participating in the Indian Pickleball League.
 - India is launching the Pickleball League for the first time.
 - The tournament will be held from December 1 to 7 at the KD Jadhav Indoor Stadium in New Delhi.

National Fencing

- **Location:** Delhi
- **Women's Foil Gold:** Tamil Nadu defeated Manipur
- **Women's Sabre Bronze:** Maharashtra and Tamil Nadu

World Boxing Cup

- India created history by winning 20 medals (9 Gold, 6 Silver, 5 Bronze) at the World Boxing Cup Finals.
- The event was held in Greater Noida, Uttar Pradesh, organized by the World Boxing organization in collaboration with the Boxing Federation of India (BFI).
- 7 Indian women boxers and 2 men won gold, setting a new record.

Australian Open Super 500 Badminton Tournament

- **Lakshya Sen** won the men's singles title.
- The tournament was held in **Sydney, Australia.**

Women's Kabaddi World Cup 2025

- India won the Women's Kabaddi World Cup 2025, defeating Chinese Taipei 35-28 in the final held in Bangladesh.
- This is India's second consecutive championship, retaining the trophy as defending champions.
- First edition held in 2012 by the International Kabaddi Federation. India won the inaugural championship by defeating Iran.

Track Asia Cup Cycling Race

- **Dates:** January 29 to January 31, 2026
- **Venue:** Tamil Nadu Physical Education and Sports University campus, Vandalur, Chennai
- **Significance:** This is the first time that the Track Asia Cup Cycling Race is being held in India.
- **Participants:** Over 100 athletes from 15 countries, including India, Hong Kong, Iran, and Malaysia.

Sultan Azlan Shah Cup

- The Sultan Azlan Shah Cup hockey tournament is being held in Ipoh, Malaysia.
- On **28.11.2025, India faced New Zealand** in the tournament. The Indian team won the match.

Syed Modi Super 300 international badminton tournament

- In the Syed Modi Super 300 International Badminton Tournament, India's Gayatri Gopichand and Treesa Jolly won the championship title in the women's doubles category.
- The tournament was held in Lucknow, Uttar Pradesh.
- **Srikanth finishes second:** In the men's singles category, India's Kidambi Srikanth lost to Hong Kong's Jason Ho-shue and missed the opportunity to win the title.

INTERNATIONAL

India–U.S. 10-Year Defence Partnership

Framework

- The agreement is titled the “Framework for the U.S.-India Major Defence Partnership.”
- It outlines a 10-year road map for strategic collaboration, marking a new phase aimed at “advancing peace, security, and stability in the Indo-Pacific.”
- The new framework builds upon the 2013 Joint Principles for Defence Cooperation and the 2016 recognition of India as a Major Defence Partner (MDP).
- Marks a new 10-year framework to deepen collaboration across all defence domains – land, maritime, air, space, and cyberspace.

Core Objectives of the Framework

- Maintain a free and open Indo-Pacific region.
- Enhance interoperability between Indian and U.S. forces.
- Strengthen maritime security to ensure unhindered global trade and commerce.
- Prevent proliferation of weapons of mass destruction (WMDs).
- Promote defence industrial innovation through advanced technology partnerships.
- Expand cooperation with like-minded partners via mechanisms such as the Quad.

COMPACT Initiative

- Both sides had earlier launched the **COMPACT initiative** – Catalysing Opportunities for

Military Partnership, Accelerated Commerce and Technology.

- **Objective:** To drive transformative changes in key areas of defence cooperation and trade.

G7 Summit

- The 2025 G7 Summit was held in Kananaskis, Alberta, Canada from June 15 to 17.
- The 51st summit was attended by the member countries of Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States.
- Although India is not a member, the Prime Minister attended the summit.

Key discussion topics:

- Creating economies that benefit all
- Combating climate change
- Energy security

G7 Energy Security Session

- Indian External Affairs Minister Jaishankar participated in a briefing session on energy security and rare earths held in Canada as part of the G7 Foreign Ministers' Meeting.
- The G7 Foreign Ministers' Meeting was held in Niagara Region, Canada on November 11 and 12.

Global Big Cats Summit

- India announced that it will host the Global Big Cats Summit in New Delhi in 2026, reaffirming global leadership in wildlife conservation.
- Global Big Cats Summit is a high-level international summit dedicated to strengthening global cooperation, policy coordination, and scientific collaboration

for the conservation of big cat species across continents.

UN Security Council

- **Context:** The UN Security Council approved the U.S.-drafted resolution outlining Donald Trump's plan for post-war Gaza governance.

About UN Security Council

- The United Nations Security Council (UNSC) is a group of 195 nations formed in October 1945 to maintain international peace and security.
- The Security Council is the successor to the previously created League of Nations.
- India's participation in the Security Council has been as a non-permanent member during the periods of 1950-51, 1967-68, 1972-73, 1977-78, 1984-85, 1991-92, 2011-12, and 2021-22.
- The Council comprises 15 members, including 5 permanent members (P5) - China, France, Russia, the United Kingdom, and the United States—who possess veto power, and 10 non-permanent members elected for 2-year terms by the UN General Assembly (UNGA).

G-20 Summit

- The G-20 summit was held in Johannesburg, South Africa, marking the first time the grouping has been hosted in an African country.

India's Proposals/Initiatives:

- Proposed initiatives to reconsider global growth parameters to balance growth and promote "**integral humanism**."
- Announced the G-20-Africa Skills Multiplier Initiative to impart skill development to "one million" people across the African continent.

- Proposed a **G-20 Global Healthcare Response Team**.

- Proposed a **G-20 Initiative on Countering the Drug-Terror Nexus**.

- Proposed a **Global Traditional Knowledge Repository**: To transmit sustainable and "eco-balanced ways of life" to future generations.

- Proposed a **G-20 Open Satellite Data Partnership**: To share information related to agriculture, fishing, and disaster management.

- Proposed a **G-20 Critical Minerals Circularity initiative**: To promote recycling and sustainable mining methods.

- **Australia-Canada-India Technology & Innovation (ACITI) Partnership**:

- The goal is to deepen cooperation on critical and emerging technologies, resilient supply chains, clean energy, and artificial intelligence (AI).

- **Note:** United States boycotted the summit; no U.S. leader attended due to tense ties with South Africa.

COP30 (Belem, Brazil)

- **Summit Outcome**

- COP30 concluded with a consensus agreement titled "Global Mutirão: Uniting humanity in a global mobilisation against climate change."

- COP President Andrei Lago announced two major global road maps to be prepared:

- Road map to halt and reverse deforestation.
- Road map to transition away from fossil fuels in a just, orderly, and equitable manner.

- This Mutirão refers to a consensus on the most contentious climate-talk issues:

- **Article 9 (Paris Agreement):** Developed nations must mobilise finance for developing countries' energy transition.
 - Measures against trade-restrictive unilateral climate actions (a key concern among developing countries).
 - Progress on **Nationally Determined Contributions (NDCs)**.
 - Addressing the **1.5°C ambition and implementation gap**.
- Argued for flexibility as economic growth and energy needs remain high.
 - **Developed Countries' Stand:**
 - A **clear fossil-fuel transition pathway** is essential to limit warming to 1.5°C by 2100.
 - **Climate finance** for mitigation and adaptation must come from both **public and private sources**.
- WHO's New Global Guideline on Fertility Care**
- The final consensus text, the Mutirão Agreement, includes:
 - A two-year work programme on climate finance.
 - A call to at least triple adaptation finance by 2035.
 - A new systematic dialogue with UN trade bodies (ITC, UNCTAD, WTO) to ensure climate measures do not hinder trade or growth in developing countries.
 - The adaptation goal falls under the **New Collective Quantified Goal (NCQG)**:
 - Developed countries must mobilise **\$300 billion per year by 2035**.
 - Aim to scale up to **\$1.3 trillion annually** from all sources in later years.
 - The Mutirão agreement does not mention fossil fuels or a phase-out road map.
 - **India and several developing/petroleum-exporting countries stand:**
 - **Opposed inclusion of a timeline** for complete phase-out of fossil fuels.
 - The WHO called on countries to make fertility care safer, fairer, and more affordable for all.
 - This is First-ever global guideline on prevention, diagnosis, and treatment of infertility.
 - The guideline includes 40 recommendations aimed at strengthening the prevention, diagnosis, and treatment of infertility.
- About World Health Organisation**
- The WHO is the United Nation's specialized health agency and is mandated to coordinate the world's response to global health threats.
 - The International Health Conference held in New York in 1946 adopted the Constitution of WHO, which entered into force in 1948.
 - WHO coordinates the world's response to health emergencies, promote well-being, prevent disease and expand access to health care.
 - **Membership:** 194 member states grouped into 6 regions (Africa, Americas, Eastern Mediterranean, Europe, South-East Asia, and Western Pacific).

MISCELLANEOUS

An agricultural school in Madras became agricultural university

- The **Tamil Nadu Agricultural University** traces its origin to an agricultural school, which was established at **Saidapet in Madras in 1868** and then shifted to Coimbatore.
- In 1920, it was affiliated to the University of Madras.
- It became the region's pioneering centre for agricultural education and research.

A dam across Bhavani River in Erode

- **Bhavanisagar Dam**, also known as the **Lower Bhavani Dam**, is in Erode district.
- Built across **Bhavani River**, it was one of the major irrigation projects to be executed in the State after Independence.
- It was completed in **1955**.
- Its catchments include Upper Bhavani, Avalanche, Kundha, and other parts of the Western Ghats.

Travancore forces defeated Dutch East India Company in 1741

- The **Battle of Colachel** was fought in **1741** at **Colachel in Kanniyakumari district**.
- Travancore forces, under **King Marthanda Varma**, decisively defeated the **Dutch East India Company**.
- The battle marked one of the earliest instances of an Asian power triumphing over a European naval force.

Sanchar Saathi Portal

- Date Created: May 17, 2023.
- Designated Department: Department of Telecommunications.
- **Objective:** To enhance the security of mobile subscribers and prevent telecom frauds.
- This portal allows mobile phone users to
 - Report fraudulent or unwanted connections
 - Block stolen/lost mobile phones.
 - Check the authenticity of IMEI before purchasing a mobile phone.
- This portal and its reforms aim to improve transparency, security and accountability in the telecom sector.

Tuberculosis (TB) incidence in India is declining by 21% per year

- India's tuberculosis (TB) incidence, where new cases are emerging every year, has declined by 21%
- It has increased from 237 TB cases per lakh population in 2015 to 187 per lakh population in 2024,
- This is almost double the pace of decline observed globally, i.e. 12%, as per the World Health Organization's (WHO) Global Tuberculosis Report 2025, the Union Health Ministry said in a statement.
- This is one of the highest declines in TB incidence globally.
- India is at the forefront of the global fight against TB.
- India's flagship TB eradication programme, the TB Mukta Bharat Abhiyan, has reached a comprehensive scale.

Cooperative Society – History

- While the cooperative movement emerged and developed globally in the mid-19th century, the seeds for it in India were planted at the end of that century.
- Its history began in Tamil Nadu. Farmers were dependent on landowners and moneylenders. The successive famines made farmers indebted.
- The debt problem of farmers was also a major reason for the Deccan Rebellion of 1875, following which the British government brought the Deccan Farmers Relief Act (1875) and the Farmers Loan Act (1884)
- In this situation, the then Madras Provincial Government appointed an officer named Sir Frederick Augustus Nicholson to study and report on the establishment of organizations like the agricultural credit societies operating in the West in India.
- Nicholson submitted his report in two large volumes in 1895 and 1897. He suggested that organizations like the Roybeson Societies operating in Germany could be established to provide credit to the farmers.
- The 1901 Famine Commission also made similar recommendations to the government. Based on these, the British government passed the Cooperative Societies Act, 1904.
- The Act was amended in 1912 to remove the shortcomings in these.

Cooperative Society in India

- The first cooperative society in India was registered in Tirur village in Tiruvallur district of Tamil Nadu, on 30.08.1904, as the Tirur Village Cooperative Society.
- This society was started through the efforts of Adhi Narayanayya, a retired Deputy Commissioner of Revenue, from Tirur village, and the initiative of P. Rajagopalachari, the first Registrar of Cooperative Societies in the Madras Province.
- Former Tamil Nadu Chief Minister P.S. Kumaraswamy Raja, who was also its chairman, started the Bhupathi Raja Cooperative Bank in Rajapalayam in 1925 and was also its chairman. He brought Gandhiji to this bank in 1934.
- Gandhi visited the Thiruvallikeni Cooperative Society in Chennai in 1925.
- Gandhi, who had started and run Phoenix Farm and Tolstoy Farm while in South Africa, had a natural interest and involvement in cooperatives.
- He was very keen on strengthening the Indian cooperative movement.
- Various leaders of the Nehru-Dravidian movement have contributed to the development of the cooperative movement, including Pitti Thiagarayar, Pitira A.D. Panneerselvam, V.V. Rama and U.P.A. Soundarapandian. Justice Party N.R. Samiyappa, Tamil Nadu He supported the development of the Cooperative Training Institute.
- The institution is named after him and he started the Erode Nagar Bank.
- Not only economic development, but also the cooperative societies have played a major role in bringing about social development among various backward communities. People from various strata of society
- The Public Distribution Scheme of Tamil Nadu, which is functioning in the best way in India, is implemented through cooperative societies.
- Currently, public welfare schemes have increased to the extent that essential commodities from the fair price shop are

delivered to the homes of the elderly and the differently abled.

Cooperatives and State Autonomy

- When the Montagu Chelmsford Reforms were brought in 1919, the cooperative sector came under the control of the states.
- Following this, the then British provinces took steps to strengthen the cooperative movement.
- In 1927, the Madras Provincial Government reviewed the progress of the cooperative movement and made recommendations for its improvement. Townsend Committee.
- The Madras Province Cooperative Societies Act was passed in 1932. This Act broadened the scope of the cooperative movement beyond the 1912 Act.
- The Vijayaraghavachari Committee (1939) and the Santhanam Committee (1968) formed after this gave the government recommendations for the development of the cooperative movement.

The first district to be created after States were reorganised

- The first district created in Madras State after the Reorganisation of States was Dharmapuri in 1965.
- Historically known as Thagadoor, it became a new administrative unit with Dharmapuri, Krishnagiri, Hosur, and Harur taluks, all carved out of Salem district.
- In 2004, Dharmapuri was bifurcated to create Krishnagiri district.

Seven Tamil kings noted for generosity and charitable deeds

- Noted for their generosity and charitable deeds, the Kadai Ezhu Vallalgal were a

group of seven kings of ancient Tamilagam mentioned in Sangam literary texts such as Sirupanatrupadai and Purananooru.

- These monarchs were called Velir and ruled small kingdoms.
- They were Pari, Ori, Kari, Athiyaman, Pegan, Aay, and Nalli.

The capital of the early Cholas is now a part of Tiruchi city

- Uraiyur (Woraiyur- part of Tiruchi city), was the capital of the early Cholas.
- Ashokan inscriptions in Odisha mention Uraiyur as the Chola capital.
- This ancient city, with its fortress and walls on the Cauvery's southern bank, flourished during the Sangam Age.
- Excavations in the 1960s uncovered 20 fragmented potsherds.

Adavinainar Dam forms part of the Thamirabarani basin

- The Adavinainar Dam, at the foothills of the Western Ghats on the Kerala border, is built across the Hanumanadhi at Mekkarai in Tenkasi district.
- The picturesque dam is part of the Thamirabarani basin.

Just Transition Work Programme (JTWP)

- It is a UNFCCC initiative launched at COP27 (2022) and operationalised at COP28 (in 2023) through the Sharm el Sheikh Implementation Plan.
- It aims to ensure climate actions are fair, equitable, and aligned with national development goals, especially for workers and communities affected by moving away from fossil fuels.

EMINENT PERSONALITIES

Indira Priyadarshini Gandhi Memorial Day

- Indira Gandhi served as the Prime Minister of India for three terms from 1966 to 1980.
- Indira Gandhi announced the nationalization of 14 commercial banks in India on July 19, 1969. This decision was taken under the Banking Regulation Act, 1949.
- The Twenty-Point Plan, launched by Indira Gandhi in 1975, aimed to eradicate poverty and improve the living standards of the backward classes in the country. The plan was reformed in 1982 and 1986 and reintroduced in 2006 with new schemes and programs.
- Indira Gandhi was awarded the Bharat Ratna in 1972.

Veeramamunivar's Birthday

- Birth and Education: Born in 1680 in Castiglione delle Stivier, Italy.
- Constantine Joseph Peschi, popularly known as Veeramamunivar, was an Italian Jesuit priest, Tamil scholar and a prominent figure in South India in the 18th century.
- Visited Goa in 1700.
- He also diligently studied Sanskrit, Telugu and Tamil and became proficient in these languages, especially Tamil.
- His works: Thembavani(1726), Chaturkaradhi and other works testify to his proficiency in Tamil.

- Thembavani contains 3,615 virtuous verses and tells the story of Susaiyappar, the father of Jesus Christ.

- It is noteworthy that Thembhavani was staged very well by Tamil scholars at the Madurai Tamil Sangam.

- Later, in 1711, he visited Madurai.

- Veeramamunivar composed four grammar books for the Tamil language. They are Kodunthamizh Lakhanam (1728), Senthamizh Lakhanam (1730), Thonnul Vairavukol (1730) and Tilvukol. The first three were written in Latin. Of these, Babington's English translation of Senthamizh Lakhanam with the Latin original was published in 1917 by Joseph Industrial Printing Press, Trichy.

- Language skills: He visited various centres in South India including Tirunelveli, Ramanathapuram, Thanjavur and Madurai to learn Tamil, Sanskrit and Telugu.

- Translations and works: He translated "Thirukkural" into Latin, he wrote Tamil grammars, dictionaries and prose works.

- He also translated various Tamil literary works into European languages. He wrote Tamil grammars, dictionaries and prose works

- Lexicography: Compiled the first Tamil-Latin dictionary and a comprehensive Chaturakarathi. It is a four-fold dictionary containing words, synonyms and types of words and rhymes.

- He died in 1742.

- In 2019, Dr. Dominic Raj translated and published the entire Thembavani into English.
- The Tamil Development Department celebrates Veeramamunivar's birth anniversary on 8 November as Dictionary Day, a government festival every year, and is proud to present an award in his name to Tamil scholars.
- The Mundas, an adivasi tribe, experienced high rent pressures, forced labor, and other forms of exploitation that disrupted traditional practices.
- This was the social background in which Birsa Munda found a place for himself as a leader.

C.V. Raman

- C.V. Raman was born on November 7, 1888 in Tiruchirappalli, Tamil Nadu.
- The first Asian to win the Nobel Prize in Physics and the first recipient of the Bharat Ratna, C.V. Raman is best known for his advanced theory of light scattering - the inelastic theory of scattering.
- This phenomenon is called the Raman effect or Raman scattering,
- Rayleigh had already established the phenomenon of light scattering and had also provided reasons for the blue colour of the sky.
- But his work was based on multi-wavelength light passing through atmospheric gases that scatter light of shorter wavelengths.
- C.V. Raman established an advanced theory of scattering.
- Ulkulan Movement-His leadership in the historical uprisings of freedom fighters reached its peak through the Ulkulan Movement, a major uprising led by the tribals against British colonialism and feudal domination.
- Santhal Rebellion (1855-1856) Sandal Rebellion, also known as Santhal Hool
- It was one of the earliest and largest tribal rebellions against the British.
- **Kol Rebellion (1831-1832):** This is popularly known as Kol Rebellion.
- The Kol community, especially those living in the Chotanagpur region of present-day Jharkhand, rebelled against the colonial rule of the British East India Company and local landlords.
- **Rambha Rebellion (1879-1880)** The Rambha Rebellion, also known as Rambha Rebellion, was a tribal uprising led by Alluri Sitarama Raju, a tribal leader in present-day Andhra Pradesh.

Birsa Munda

- Birsa Munda, a freedom fighter, was born on November 15, 1875, in the village of Ulihattu in the present-day state of Jharkhand.
- The Chotanagpur Plateau is home to the tribal people, Birsa Munda was born into a Munda family.
- **V.O.Chidambaranar - (1872 - 1936)**
- V.O.C.'s birthplace was Ottapidaram (Thoothukudi district) V.U.C.Valliyappan Ulaganathan Chidambaram, popularly known as V.U.C., was an Indian freedom fighter.

- He started the first indigenous Indian shipping company to compete with British ships.
- The indigenous steamship company he started operated between Thoothukudi and Colombo.
- He was accused of sedition by the British government and sentenced to life imprisonment and imprisoned. His lawyer's license was also revoked.

Tamil and community service

- V.O.C. was well-versed in Tamil and English.
- He was a lawyer, writer, orator, trade union leader, and freedom fighter.
- His political career was full of high morals, honesty, and energy.
- He was a man of love, courage and openness.
- He read many Tamil literatures and wrote articles and poems about them, and translated English books.
- He used to discuss the freedom struggle and Tamil literature with his friends.
- V.O.C. In 1892, he was impressed by the powerful and courageous writings of Bal Gangadhar Tilak and became his disciple.
- He himself participated in the Indian freedom struggle and made others participate. He fought against the oppression of the British. He gave a heroic speech to the people about their cruel laws.
- The 89th Memorial Day of the Tamil sailor V.O. Chidambaranar is observed as the Day of Sacrifice on behalf of the Government of Tamil Nadu.

N. Jagadeesan (Erode Tamilanban)

- Received the Sahitya Akademi Award in 2004 for his poetry collection "**Vanakkam Valluva**", based on the Tirukkural.
- Tamilanban has authored over 90 books, including poetry works such as "**Tivagal Karaiyerukin Suriya Raayal Vaaran Tha Tehvalam**," "**Bani Peiyum Pagal**," and "**Iraup Padagan**."
- He was a major figure in the Vaanampadi poetry movement, following the literary tradition of Bharathidasan.
- **Recipient of several honours:** Kalaimamani, Sahitya Akademi Award, Bharathidasan Award, Tamil Nadu Government Best Book Award, Kuranpita Award, Kalaignar Award (Murasoli Foundation), and the Kaviko Award.

CURRENT FACTS

- Article 20(3) of the Constitution: No person accused of any offence shall be compelled to be a witness against himself.
- Article 19(1)(g) of the Constitution: Guarantees Indian citizens the fundamental right to practise any profession, or to carry on any occupation, trade or business.
- Article 21 of the Constitution: Protection of life and personal liberty.
- MAHASAGAR - Stands for Maritime Heads for Active Security And Growth for All in the Region. It aims to create a platform for high-level interactions fostering cooperation among Indian Ocean Region (IOR) nations.
- Census 2027: It will be India's first digital Census. It will also be the first Census to enumerate caste in Independent India.
- Mamallapuram Crocodile Farm, established in 1976 by wildlife conservationist Ramulus Whitaker, is the first crocodile sanctuary in Asia. It houses over 5,000 reptiles.
- India has so far won five Booker Prizes. The Juvenile Booker Prize will also be awarded from 2027.
- The CMS-03 satellite for naval and military use was launched from Sriharikota by an LVM-3 rocket.
- Kerala was officially declared the first state in India to be free from extreme poverty on Nov. 1.
- Chief Election Commissioner (CEC) of India: Gyanesh Kumar
- Nipah virus is a zoonotic disease. There are no licensed vaccines or specific treatments currently available.
- The Rowmari-Donduwa Wetland Complex lies within the Laokhowa Wildlife Sanctuary (70.13 sq. km), part of the Kaziranga Tiger Reserve.
- The five chariot sculptures created by the Pallava kings in Mamallapuram are a very artistic sculpture with intricate designs. Moreover, the elephant sculpture in this sculpture complex is carved out of a single stone.
- Egypt has opened the world's largest museum.
- Andhra Pradesh, Madhya Pradesh, Karnataka, Kerala, and Lakshadweep were formed in 1956, Punjab and Haryana in 1966, and Chhattisgarh was separated from Madhya Pradesh in 2000. The day of formation of these states and the Union Territory of Puducherry is celebrated on 1 November.
- T.J. Srinivasaraj has been elected as the President of the Tamil Nadu Cricket Association (TNCA).
- United Nations (UN) Day was observed on 24th October 2025, marking the 80th anniversary of the UN's founding in 1945.
- India's first Emerging Science Technology and Innovation Conclave (ESTIC) was held in New Delhi.
- Pradhan Mantri Fasal Bima Yojana: Launched in 2016. It is a Central Sector Scheme designed to offer financial protection to farmers against crop losses caused by natural disasters, pests, or diseases.

- The One-Horned Rhinoceros is the State Animal of Assam. It is home to 70-75% of the total one-horned rhinoceros in India. They are mainly found in the Kaziranga National Park.
- Globally, wheat is the second most produced grain after rice and maize. In India, Uttar Pradesh ranks first in wheat production.
- National Farmers' Day is celebrated in India every year on 23 December. The birthday of former Prime Minister Charan Singh is commemorated as Farmers' Day.
- Kanishka was the greatest king of the Kushan dynasty. He ruled from 127 to 151 AD. His empire covered parts of present-day Afghanistan, Pakistan and India.
- Bilaspur railway station is located in Chhattisgarh on the Mumbai–Howrah railway route.
- Article 324 in Constitution of India: Superintendence, direction and control of elections to be vested in an Election Commission.
- Article 327 in Constitution of India: Power of Parliament to make provision with respect to elections to Legislatures.
- Chairman of the Securities and Exchange Board of India: Tuhin Kanta Pandey.
- Tamil Nadu Archives Historical Research is located opposite Egmore Railway Station. It was established in 1909. Here, all the government orders issued since 1640 are preserved.
- The United Nations, which officially started functioning from 24th October 1945, will complete 80 years in 2025.
- Udhayan Pandit Award- It is given to those who excel in fruit cultivation in India. The State Horticulture Board gives these awards at the state and national levels. One award is given in each fruit category.
- Tamil Nadu is the capital of India in the production of electric vehicles, the Tamil Nadu Industries Minister has said.
- The Tehri Dam is the largest dam in India. Located on the Bhagirathi River in Uttarakhand, this dam is 260.5 meters high. It is also considered one of the tallest dams in the world.
- First South Asian mayor elected in New York Mr. Mamtani, a little-known state legislator, is in the lead for the post of mayor of New York.
- The "Mudhalvarin Mugavari" (Chief Minister's Grievance Redressal) online portal is an integrated platform for citizens to lodge, track, and resolve their grievances with the government.
- The Tamil Nadu Cancer Registry Programme (TNCRP) was established in 2012 as a collaboration between the Government of Tamil Nadu's Department of Health and Family Welfare and the Cancer Institute (WIA), Adyar, Chennai to conduct state-wide cancer surveillance. Covers 8 crore population – largest single registry in the world.
- The Dairy Development Department in Tamil Nadu was established in 1926-27 and was converted into the Tamil Nadu Cooperative Milk Producers' Federation in 1981. On 1st February 1981, the business operations of the cooperative were transferred under the trade mark 'Aavin'.
- Article 19(1) (b) of the Indian Constitution: Guarantees the fundamental right to assemble peacefully.
- Article 13(2) of the Indian Constitution: States that the state shall not make any law that takes away or abridges the rights conferred by Part III (Fundamental Rights) of the Constitution.

- Defence Research and Development Organisation Chairman: Samir V. Kamat
- Arani River, which originates in the Narayana Vanam area of Chittoor district, travels 108 km and flows into the Pazhaverkadu Lake. The surplus water of 211 lakes, including the Chezhiyampedu Azh Lake in Thiruvallur district, flows into this river.
- United Nations Secretary-General: Antonio Guterres
- *Senna spectabilis*: It is a highly invasive tree that harms biodiversity and is not preferred by wildlife.
- Mangroves: They are effective at anchoring carbon, are a cradle of biodiversity, and serve as good bio-shields (e.g.: the protection offered by Muthupettai and Pichavaram during the Tsunami).
- Tamil Nadu created 2,400 hectares of new mangrove plantations in Ennore, Adyar, and other sites.
- The right to own immovable property includes the freedom to acquire, possess, and dispose of it.
- The song Vande Mataram was included in the novel Anandamadam by poet Bankim Chandra Chatterjee. Regarding this novel, poet Rabindranath Tagore said, "Anandamadam is not just a novel. It is the dream of an independent India."
- Tamil Nadu Information Commissioner: R. Priyakumar.
- Arundhati Roy is the first Indian woman to win the Booker Prize for General Knowledge. She won the award in 1997 for her novel 'The God of Small Things', which explores social issues through narrative.
- The Maintenance and Welfare of Parents and Senior Citizens Act was introduced in India in 2007.
- A charity called 'Educate Girls' is involved in the work of re-enrolling girls who have dropped out of school in Uttar Pradesh, Rajasthan, Madhya Pradesh and Bihar. Its founder Safeena Hussain received the Ramon Magsaysay Award for this organization in the Philippine capital Manila.
- The Himalayan state of Uttarakhand was first formed in 2000 by splitting from Uttar Pradesh. The state was originally named Uttaranchal and was renamed Uttarakhand in 2007.
- Narasimha Varma Pallava ruled from 630 AD to 668 AD with Kanchipuram as his capital. He is also known as Vadapi Kondan because he destroyed Vadapi. This village is currently located in Bagalkot district of North Karnataka.
- Uttarakhand became the first state in the country to implement the Uniform Civil Code (UCC) last January.
- The Guwahati High Court is located in the state of Assam. It is the high court for the four states of Assam, Nagaland, Mizoram and Arunachal Pradesh.
- The International Court of Justice (ICJ) was created as the primary judicial organ of the United Nations. The court is located in the Peace Palace complex in The Hague, the capital of the Netherlands.
- Sholinganallur is a combination of Chola' + 'Angam' + 'Nallur'. It refers to the fact that it was once part of the Chola settlement. It was mostly a swampy area with mangrove forests in the 8th century.
- The Pazhaverkadu Lake near Ponneri in Tiruvallur district is a bird sanctuary.
- Mahendravarman Pallava ruled Kanchipuram from 600 to 630 AD. Known as Vichitrasiddha, he was initially a Jain and later converted to Saiva. He wrote the comedy play Madhavilasap Prahasanam.

- Today's Poompuhar was formerly known as 'Kaveripoompatinam'. Before the sea engulfed that city, it was sung about in a literary work called 'Pattinappalai' by Kadiyalur Urudirangannanarar.
- Bankim Chandra's novel 'Ananda Matham' (1882) describes the struggle against the British in Bengal in 1771. The song 'Vande Mataram' in it caused a national uprising in India.
- Justice B.V. Nagarathna: India's only woman Supreme Court judge.
- Laws protecting trees
- Tamil Nadu Forest Act 1882
- Tamil Nadu Preservation of Private Forests Act, 1949
- Tamil Nadu Hill Areas (Protection of Trees) Act-1955
- Tamil Nadu Rosewood Trees (Conservation) Act-1994
- Nari Shakti Vandan Adhiniyam (Constitution 106th Amendment Act, 2023) provides 33% reservation for women in Lok Sabha and State Assemblies.
- Article 15(3) of the Indian Constitution: Allows the government to make special provisions for women and children, overriding the general prohibition against discrimination based on sex.
- Article 14 in Constitution of India: The State shall not deny to any person equality before the law or the equal protection of the laws within the territory of India.
- Article 15 in Constitution of India: Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth.
- 8th Central Pay Commission (CPC): Constituted by the Central government with Justice Ranjana Prakash Desai as Chairperson.
- First Pay Commission: Constituted in 1946.
- Nobel Prize in Economics 2024: Awarded to Joel Mokyr, Philippe Aghion, and Peter Howitt.
- India ranks second in foreign tourists to Moscow
- Brazil is the largest producer of sugarcane in the world, followed by India. Other major producers include China and Thailand.
- A student team from Space Kids India, Chennai, developed a small satellite named 'Kalamsat', weighing just 1.2 kg, which was successfully launched into space on January 25, 2019, aboard the PSLV-C44 rocket.
- Greater Flamingo Sanctuary: It is located in Dhanushkodi in Ramanathapuram district of Tamil Nadu.
- The Election Commission of India (ECI) ordered a Special Intensive Revision (SIR) of electoral rolls in 12 States and Union Territories including Tamil Nadu, Kerala, West Bengal, Uttar Pradesh, Madhya Pradesh, Rajasthan, Chhattisgarh, Goa, Gujarat, Puducherry, Andaman & Nicobar Islands, and Lakshadweep.
- Uthiramerur, originally known as Merur, was developed into an educational and spiritual hub by Pallava king Nandivarman. Scholars suggest that the prefix 'Uthiram' was added to the name at a later period.
- The Kailasanathar Temple at Kanchipuram, built by Rajasimha Pallava, features an entire outer wall constructed from soft sandstone. The numerous lion sculptures carved along the structure stand as remarkable evidence of the Pallava's architectural excellence.

- The National Archives of India was established in 1891 in Calcutta, the then capital of India, during the British rule. It is currently located at the junction of Janpath & Rajpath in New Delhi.
- Chepauk is an area in Chennai, adjacent to the Bay of Bengal. The name 'Chepauk' is believed to have been derived from the Urdu word 'Che Paek'. It means 6 gardens.
- The Tiruttani Cooperative Sugar Mill in Thiruvallur district was registered as a cooperative society in 1982.
- The Kovalam beach in Chennai, which received about 5.5 lakh visitors in 2024-25, has been awarded the 'Blue Flag' certificate by the Danish Environmental Education Foundation for the fifth consecutive time.
- The marshland formed at the meeting point of the sea and the river is home to a number of wetlands. The world's second largest alaiyathi forest is located in Pichavaram, Tamil Nadu.
- More than 70 per cent of the spices consumed globally are grown in India. This is why India is called the 'spice bowl of the world'.
- The attorney-client privilege under Section 132 prohibits lawyers from disclosing professional communications.
- The State Wetlands Commission said that Tamil Nadu is the only state to have designated 20 wetlands of international importance as 'Ramsar Sites' as per the Intergovernmental Agreement on Environment signed at Ramsar, Iran in 1971.
- Section 179 of the BNSS empowers the police to summon witnesses.
- In 1921, the hormone insulin was isolated from the pancreas of dogs. In 1922, its successful use on humans was a turning point in medical history. People suffering from diabetes were able to extend their lives with insulin injections.
- Renew Energy plans to invest ₹60,000 crore in green energy in Andhra Pradesh.
- The Indian Defense Ministry has signed an agreement with Bharat Dynamics to purchase anti-tank missiles for Rs.2,095 crore.
- The Music Academy located in Alwarpet is one of the oldest music academies in South India. It was established in 1928. The Music Academy, which plays a major role in the development of Carnatic music, has awards that are unique in the music world.
- The famous Chinese traveler Yuan Zhuang of the seventh century visited Kanchipuram. He mentioned in his notes that at that time, Kanchi was 6 miles in circumference and had more than 100 Buddhist monasteries.
- The Social Justice and Human Rights Unit was established in 1972 to prevent violence and atrocities against Scheduled Castes and Scheduled Tribes in Tamil Nadu.
- A report by the World Health Organization states that 25% of the total tuberculosis cases reported globally in 2024 were reported in India.
- Dakshina Chitra is a centre for the interpretation of South Indian art, culture, architecture and lifestyle. It is located in Muttukadu. It was established in 1996 by the Chennai Handicrafts Trust.
- An agreement was signed in the presence of the Chief Minister on 13.11.25 to set up a private textile manufacturing plant at Thiruvarur at a cost of Rs. 50 crore.
- Dubai, US, UAE arms companies to collaborate to develop AI-powered drones.

- By expanding its focus beyond energy and industry to include agriculture, livestock and waste, Tamil Nadu can achieve its goal of low carbon transition.
- The Buckingham Canal runs from Vijayawada in Andhra Pradesh to Parangipettai in Cuddalore district of Tamil Nadu. The length of this saltwater canal is 420 km. It was a major waterway in the 19th and 20th centuries.
- The human heart beats an average of one lakh times a day. For example, the heart of a person who has passed the age of 60 will have beaten a total of more than 200 crore times in 60 years.
- The Sahara Desert occupies more than 90 percent of the land area of Algeria. Mount Tahat is the highest mountain in the country (3003 m). The Selif is the longest river in the country. It runs for 700 km and merges into the Mediterranean Sea.
- Kanchipuram, known as the city of a thousand temples, is mentioned in literature that there were 1,008 Shiva temples and 108 Vaishnavite temples in ancient times. Like Kashi, Kanchipuram is considered a holy place in the south.
- Steps have been taken to install 1 lakh smart water meters to be purchased on behalf of the Chennai Water Supply Board in the first phase in apartments.
- Three new criminal laws were passed in the Parliament in 2023. The Indian Penal Code of 1860 was replaced by the Indian Justice Act 2023.
- The Indian Citizen Protection Act of 2023 replaced the Criminal Procedure Code of 1973. The Indian Evidence Act of 1872 was replaced by the Indian Evidence Act of 2023. There are 358 sections in this act.
- Salim Ali was one of the important people who laid the foundation for bird watching to become a scientific discipline in India. If we go in search of birds with binoculars today, Salim Ali is also a major reason for that.
- The Bharatpur Bird Sanctuary/Keladev National Park in Rajasthan was created due to the efforts of Salim Ali. Today, the national park is playing an important role in bird conservation.
- Sahitya Akademi's Bala Sahitya Puraskar Award for the year 2025 was announced for the children's book 'Otrai Siragu Oviya' in the Tamil language category. The Bala Sahitya Puraskar Award was presented to writer Vishnupuram Saravanan by Sahitya Akademi Vice President Kumart Sharma on 14.11.2025.
- Chennai, also known as the 'Metropolitan Chennai Corporation', was started as a municipality on 29th September 1688.
- The Right to Education Act, 2009, stipulates that every school should have a library that provides books on all subjects, including newspapers, magazines and storybooks
- Former Union Finance Minister P. Chidambaram has released a book titled Little India and the Singapore Indian Community Through the Ages, written by Soundara Nayagi Vairavan. It was first released in Singapore on April 25.
- Dr. Muthulakshmi Reddy is the first Indian woman to study medicine in Tamil Nadu. She was responsible for starting the Adyar Cancer Institute, the first cancer hospital in South India, in 1954.
- Mithra and Sridevi, students from Coimbatore, have won gold medals in the Indo-Nepal International Silambam Competition held in Nepal. Both are experienced in participating in national and international competitions.

- India's tea production fell by 5.9 percent in September.
- Inscriptions indicate that the Uthiramerur Panchayat administration was functioning 1,200 years ago, with separate committees such as the Plantation Committee, Water Resources Committee, Management Committee, Finance Committee, Security Committee and Education Committee.
- The Indian Education Exhibition was held in the United Arab Emirates
- The Commonwealth of Nations was formed in 1949 by the British Empire. India is a member of 54 countries, including India. Its conference is held every 2 years.
- Walajabad (Shivapuram) in Kanchi district is surrounded by Saiva temples. Excavations are underway by the Archaeological Department in the nearby Vadakkupattu area. Sand dunes and ancient statues have been discovered there.
- Hungary, which has won both the major awards, the Nobel Prize and the Booker Prize, has attracted the attention of the entire literary world.
- Novels participating in the Booker Prize competition must be written directly in English. The country of the novelist does not matter. However, they must be published by a publisher in England or Ireland.
- Nobel laureate László Krasznai György is from Hungary. Although Booker Prize winner David Szalay was born in Canada, his origin is Hungary. In that sense, Hungary is doubly happy with the successive award announcements.
- On behalf of the Malaysian Tourism Department, an awareness cycle rally emphasizing the importance of cycling and physical health and environmental protection began from Nungambakkam on 15.11.2025
- According to the website of the Directorate of Public Libraries, there are more than 4,640 public libraries and 14 mobile libraries in Tamil Nadu
- The External Affairs Minister reviewed the bilateral relations between Washington and New Delhi and support for diaspora activities at the Conference of Indian Consuls General in the United States held in New York.
- The Chennai Ramakrishna Math was started in 1897 by Swami Ramakrishnananda, a direct disciple of Ramakrishna. The Math functioned in the Ice House till 1907. It was later shifted to Mylapore.
- Iodine is an element. The word iodine comes from the Greek language. It means purple. Iodine tincture is used to heal wounds.
- French chemist Antoine Lavoisier discovered that there is oxygen around us, that water is a hydrogen-oxygen mixture, and that oxygen is required for a substance to burn.
- The Digital Personal Data Protection (DPDP) Act, 2023 establishes the legal framework for data protection in India, and the DPDP Rules, 2025 provide the operational details for its implementation
- Rhinoceros is the second heaviest land animal after the elephant. It does not have sharp vision. Its eyesight is slightly poor. But its hearing and eating ability are very high.
- In 1997, the merged Chengai Anna district was divided into two districts, Tiruvallur and Kanchipuram. In 2019, Chengalpattu district was formed from Kanchipuram.
- Through the Pediatric Emergency Treatment Program (PREM) implemented in 116 government hospitals in Tamil Nadu, 96.26% of the patients have recovered by 2024.

- Vitamin 'K' is a fat-soluble vitamin that is essential for blood clotting, bone development, and heart health. It is found in green leaves, vegetables, some dairy products and meat.
- The Nile River flowing in the northeast African continent is the longest river in the world. It is approximately 6,650 km long and flows through 11 countries. Egypt and Sudan are the countries that benefit the most from this river.
- The Indian Air Force and the French Aerospace Forces (FAF) jointly conducted an air combat exercise named 'Garuda 25'.
- China is the world's leading producer of tomatoes, while India is the second. In India, Madhya Pradesh is the first, followed by Andhra Pradesh and Karnataka.
- China is the world's largest producer of chillies, accounting for 45 percent of the world's chilli production. India is the second. However, India is the world's largest exporter of chillies.
- Chennai has been awarded the National Award for Best Public Transport System at the 18th Indian Urban Transport Conference held in Haryana.
- Finland tops the World Happiness Report for the 8th consecutive year. India ranks 118 with a score of 4.389.
- Article 20(1): Protection from Retrospective Criminal Laws (Ex-Post Facto Laws). Part 1 of Article 20 states that no person can be convicted from an act that was not a crime at the time it was committed or be given a hard punishment. This applies to criminal laws and convictions and not to trial and certainty.
- A city must have at least 2 million population (as per Census) to qualify for a Metro Rail project under the Metro Rail Policy, 2017.
- The May 2024 judgment had ruled that retrospective (ex post facto) environmental clearances (ECs) to regularise illegal constructions were illegal. It had struck down: 2017 notification and 2021 Office Memorandum (OM), because they permitted ex post facto environmental clearances (ECs).
- The SIR exercise is being conducted in Chhattisgarh, Goa, Gujarat, Kerala, Madhya Pradesh, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal, Puducherry, the Andaman and Nicobar Islands, and Lakshadweep.
- A Rudra Brigade is a newly conceptualised all-arms, permanently integrated combat formation combining infantry, mechanised units, armour, artillery, air defence, engineers, signals, drones, logistics and support elements under a single operational framework.
- Vindhya Range: A west-central Indian mountain range stretching from Gujarat through Madhya Pradesh to near the Ganga valley in Uttar Pradesh.
- Mount Everest Record: Nepal's Kami Rita Sherpa, who first summited Everest in 1994, achieved a record 31st ascent in May 2025.
- Tele-MANAS Project: India launched the National Mental Health Programme in 1982 to deliver community-based mental health services as recommended by WHO. In October 2022, it was upgraded into the National Tele-Mental Health Programme "Tele-MANAS".
- Children's Science Park inaugurated on 19.11.2025 at Anna Centenary Library Complex, Kotturpuram, Chennai. Established by the School Education Department at a cost of ₹80.24 lakh.

- Professor Srivas Sahasranamam from Thiruvananthapuram, Kerala, of the University of Glasgow, received the British Young Achiever Award in the Education category and also won the People's Choice Award. The ceremony was held on 16 November 2025 in London.
- Nitish Kumar sworn in as Bihar Chief Minister for the 10th term.
- A memorandum of understanding (MoU) was signed between the Tamil Nadu government and Tata Technologies Limited towards transforming 44 State-run Industrial Training Institutes (ITIs) into Centres of Excellence.
- Article 141 in Constitution of India: Law declared by Supreme Court to be binding on all courts.
- Article 142 of the Indian Constitution: To enable the Court to declare the law to give such directions or orders as are necessary to do complete justice.
- Article 145(3) of the Indian Constitution: States that a minimum of five judges (Constitution Benches) must hear any case involving a substantial question of law as to the interpretation of the Constitution, or any reference made by the President under Article 143.
- Article 131 of the Indian Constitution: Original jurisdiction of the Supreme Court.
- Kuno National Park (Sheopur, Madhya Pradesh): It was established as a wildlife sanctuary in 1981 and upgraded to a national park in 2018. It was selected under the Action Plan for Introduction of Cheetah in India.
- The US has approved the sale of advanced Excalibur missile equipment and anti-tank Javelin missile equipment to India, which can track and destroy targets.
- The Southern Railway was formed on April 14, 1951, by merging the Madras and Southern Maratha Railway, South Indian Railway, and Mysore State Railway. At present, it covers Tamil Nadu, Kerala, Puducherry, and a small part of Andhra Pradesh.
- The Vallur Thermal Power Plant, which has been operational since 2012 in Tiruvallur, Athipattupudunagar, generates 1,500 MW of electricity. 75 percent of the electricity is supplied to Tamil Nadu. The remaining electricity is distributed to the states of Andhra Pradesh and Karnataka.
- The Sarkaria Commission (1983), set up to examine Centre-State relations, recommended that Governors should decide on Bills within a maximum of six months.
- The length of the India-Pakistan border - Approximately 3,323 kilometers (2,063 miles).
- The length of the India- Bangladesh border - Approximately 4,096 kilometers (2,545 miles - Fifth-longest land border in the world.).
- Tamil Nadu notified snakebite envenomation as a disease of public health importance, officially declaring it a notifiable disease under the Tamil Nadu Public Health Act, 1939, in November 2024.
- Bhutan hosted the first-ever Global Peace Prayer Festival (GPPF), a major spiritual gathering promoting world peace and harmony. The festival took place from November 4-19, coinciding with the 70th birthday of Bhutan's fourth king, Jigme Singye Wangchuk.
- African grey parrot (*Psittacus erithacus*): Listed under CITES Appendix I and Classified as Endangered by the IUCN.
- Rajaraja Chola referenced Kanchi's Vaiyanathar temple as "Kasipet Periya Thaliyaar" in his inscriptions, noting he visited it before building the Thanjavur Big Temple.

- Bhimgad Wildlife Sanctuary: It is located in Karnataka near the Goa border. It is named after Bhimgad Fort, built by Shivaji in the 17th century to defend against Portuguese forces.
- Anshi Dandeli Tiger Reserve: It is located in Uttara Kannada district of Karnataka in the Western Ghats. Also known as Kali Tiger Reserve. The Kali River flows through the reserve.
- Chief Electoral Officer of Tamil Nadu: Archana Patnaik.
- The Hayli Gubbi volcano is located in Ethiopia's Rift Valley, part of the Erta Ale Range. It has erupted for the first time in 12,000 years.
- 14th Men's Hockey Junior World Cup: The tournament will be held from November 28 to December 10 in Chennai and Madurai. 24 countries will participate in the event.
- Kavach 4.0 is an automated railway safety system developed indigenously.
- An ammeter is an instrument used to measure the current flowing in an electrical circuit in amperes.
- In ancient times, Kanchipuram was a great educational centre of South India, like Nalanda and Takshashilam. Higher educational institutions called 'Kadigai' functioned here. Since many scholars studied there, Kanchipuram is known as Kadigaasthanam.
- Of the 163 Mesolithic sites found in Tamil Nadu, 70 percent are in Kanchi district and its nearby places like Yerumaiyur, Sirukulathur, Sikkarayapuram, Ayyansery, Keelambakkam, and Nanmangalam.
- Kadai Ezhu Vallalgal- The seven celebrated patrons of the Sangam age. Pari, Pegan, Kari, Nalli, Ay, Athiyaman, and Valvil Ori.
- Operation Pawan was launched in 1987 as part of India's Indian Peace Keeping Force (IPKF) mission in Sri Lanka.
- INS Vikrant is India's first indigenous aircraft carrier, commissioned on September 2, 2022.
- India has committed to achieving net-zero carbon emissions by 2070.
- The Chief Economic Adviser, V. Anantha Nageswaran, stated that India's economic valuation is expected to exceed \$4 trillion (\approx ₹357 lakh crore) in the current financial year (2025–26).
- Transport sector contributes to 40% of India's air pollution.
- Auramine O is a synthetic yellow industrial dye produced from compounds such as dimethylaniline and formaldehyde, banned in India, EU, US, and most countries for use in food.
- During the Pallava period, Kanchipuram was renowned and was subjected to several military campaigns. After Narasimha Varman I defeated Vatapi (in present-day Karnataka), Kanchipuram became a target of retaliatory campaigns by Pulikesi II and Vikramaditya II.
- From 1361 to 1645 CE, Kanchipuram was under the rule of the Vijayanagara Empire. During the Muslim invasions, Hindu rituals had been abandoned, but they were revived and practiced again during this period. Inscriptions related to this revival are found within the Kailasanathar and Varadaraja temples.
- India spends 0.7% of its GDP on R&D, with 0.6% contributed by the government.
- India generates 20% of the world's data.
- Kamarajar Port: India's first corporatized major port, registered as a company. It was declared as 12th Major Port of India.

- A Supreme Court-appointed committee (CEC) has recommended creating a Goa Tiger Reserve in a phased manner, prioritizing areas with lower human presence.
- The 2030 Commonwealth Games are to be held in Ahmedabad, Gujarat.
- India's GDP grew 8.2% in Q2 (July-September) 2025-26, the highest in six quarters. However, the growth of the agricultural sector, which was 4.1 percent, has now decreased to 3.5 percent.
- S-400 Defence system: It is a long-range, multi-layered surface-to-air missile system developed by Russia's Almaz-Antey. In Indian service, it is named 'Sudarshan Chakra'.
- The International Astronomical Union has named a 3.5 billion year old crater on Mars after the late geologist M.S. Krishnan from Tamil Nadu.
- The Minister of School Education has been awarded the Silver Elephant Award in recognition of his outstanding service to the Scouts and Guides Movement of India.
- Santiago Neiva has been appointed as the head coach of the Indian women's boxing team.
- At the International Film Festival in Goa, actor Rajinikanth has been awarded the Lifetime Achievement Award in recognition of his 50 years of achievements in the film industry.
- The Sálim Ali Centre for Ornithology and Natural History (SACON) was established in 1990 in Coimbatore, to honour Salim Ali (Birdman of India).
- A fruit bat caught in 1972 in the Theni Highway Hills was named *Latidens salimalii* in honour of Salim Ali (Birdman of India).
- The Union Minister of Electronics and Information Technology has said that the central government is planning to invest Rs 4,500 crore in upgrading the Semiconductor Laboratory (SCL) in the next three years.
- Kerala Forest Department will use the 'Ayyan' app to locate and rescue devotees who stray into Sabarimala forests. The app works even without internet. Available in 6 languages: Tamil, Malayalam, English, Telugu, Kannada, Hindi.
- India will host the 2030 Commonwealth Games (CWG) in Ahmedabad, exactly 20 years after its first CWG.
- Fourth Kashi Tamil Sangamam: starting December 2 at Namoo Ghat, Kashi. Theme: "Learn Tamil - Tamil Karkalam".
- IRS officer Vivek Chaturvesi has been appointed as the Chairman of the Central Board of Indirect Taxes and Customs (CBIC).
- Nilgiri tahr: Endemic to Western Ghats above 4,000 ft. It is considered an endangered species and is the state animal of Tamil Nadu.
- Raj Bhavan across the country has been renamed as 'Lok Bhavan' ('People's House').