

June - 08

TNPSC BITS

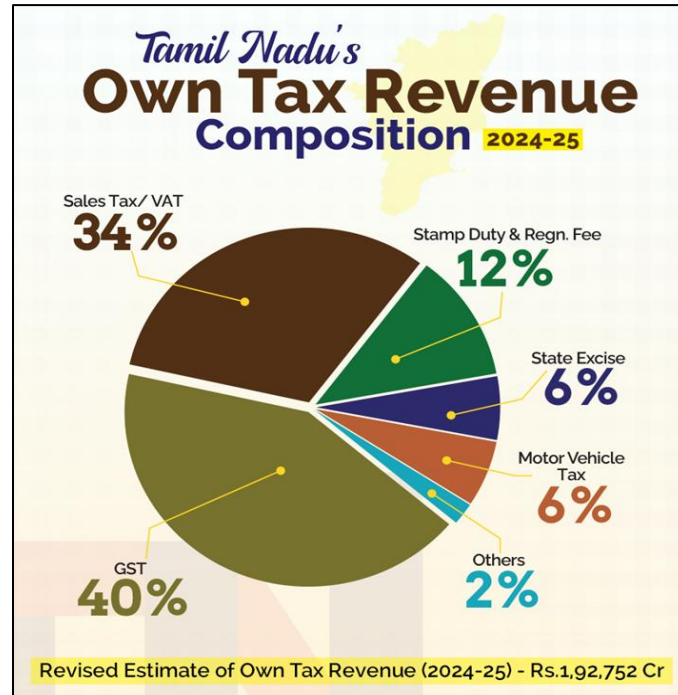
- ❖ Centre has launched 'Samadhan Didi', an Artificial Intelligence (AI)-enabled voice chatbot under the Centralised Public Grievance Redress and Monitoring System (CPGRAMS).
 - The chatbot allows citizens to register and track grievances through voice-based interaction in simple language and local dialects.
- ❖ Scientists from the Zoological Survey of India (ZSI) discovered a new frog species, *Amolops kamal* (Nagaland Cascade Frog), in Kiphire district, Nagaland, near the Myanmar border.
 - The species belongs to the *Amolops* genus, which includes 90 recognized species worldwide, with 20 species recorded in India.
- ❖ Royal Challengers Bengaluru (RCB) won the Indian Premier League (IPL) 2026 title by defeating the Gujarat Titans (GT).
- ❖ R. Praggnanandhaa became the first Indian to win the prestigious Norway Chess 2026 title, finishing with 18 points after defeating top players including Magnus Carlsen, D. Gukesh, Alireza Firouzja, and Vincent Keymer.
- ❖ International Level Crossing Awareness Day (ILCAD) is observed annually on June 5 to raise awareness about safety at railway level crossings.
- ❖ International Day for the Fight Against Illegal, Unreported and Unregulated (IUU) Fishing is observed every year on 5 June to promote sustainable fisheries and protect marine resources.

TAMIL NADU NEWS

Tamil Nadu State's Own Tax Revenue 2025-26

- ❖ Tamil Nadu recorded a modest growth of 6.8% in the State's Own Tax Revenue (SOTR) during 2025-26, despite registering 10.83% economic growth.
- ❖ SOTR increased from ₹1.80 lakh crore in 2024-25 to about ₹1.92 lakh crore in 2025-26.
- ❖ SOTR mainly consists of State Goods and Services Tax (SGST) and Taxes on Sales and Trade.
- ❖ SGST collections rose marginally from ₹70,886.77 crore to ₹72,008.47 crore, a growth of 1.6%.
- ❖ The slow growth is attributed to the GST (Goods and Services Tax) rate rationalisation implemented in September 2024.

- ❖ Tamil Nadu had also recorded a gap between economic growth and tax revenue growth in 2024–25, when the economy grew 11.19%, but SOTR grew only 7.74%.



NATIONAL NEWS

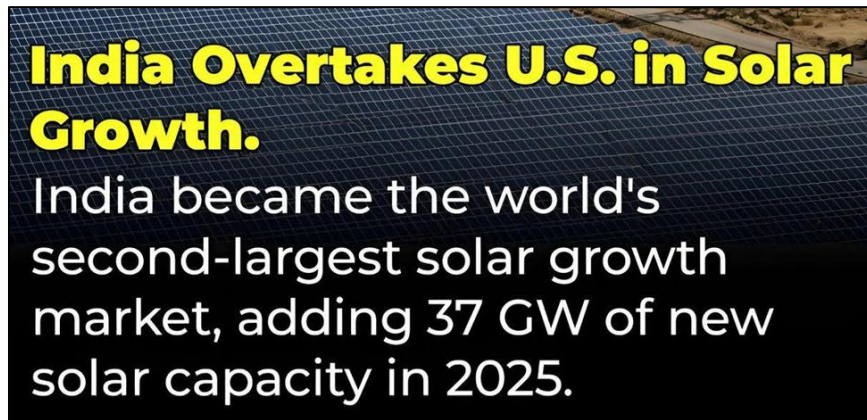
India's Semiconductor Vision 2035



- ❖ NITI Aayog released the report “Future of India’s Semiconductor Industry”, outlining India’s Semiconductor Vision 2035.

- ❖ India aims to build a USD 120–150 billion semiconductor value chain by 2035.
- ❖ The vision targets 35–50% chip self-sufficiency and 10–13% share of the global semiconductor market by 2035.
- ❖ The strategy is based on the 5P framework: Pioneering, Policy & Investment, Production, People, and Partnership.
- ❖ Key focus areas include Artificial Intelligence (AI) chips, Silicon Carbide (SiC), Gallium Nitride (GaN), advanced packaging, and quantum technologies.

India's Solar Market Growth

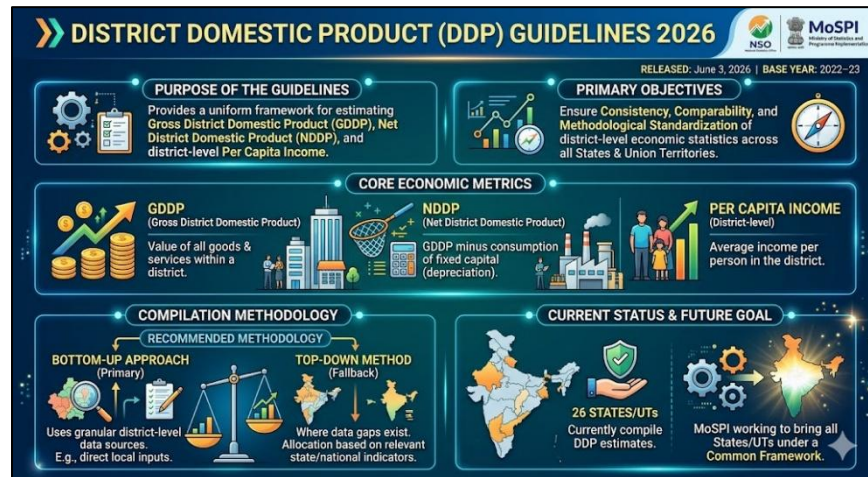


- ❖ India became the world's second-largest solar growth market in 2025, surpassing the United States in annual solar capacity additions.
- ❖ India's installed solar power capacity increased from 2.8 Gigawatts (GW) in 2014 to over 155 GW in 2025.
- ❖ The country recorded a growth of about 5,370% in solar capacity during this period.
- ❖ India has crossed 50% non-fossil fuel-based installed electricity capacity.
- ❖ Under the PM Surya Ghar Muft Bijli Yojana, more than 40 lakh households have adopted solar power.

District Domestic Product Guidelines 2026

- ❖ The National Statistics Office (NSO), under the Ministry of Statistics and Programme Implementation (MoSPI), released the Uniform Guideline for Compilation of District Domestic Product (DDP) Estimates with base year 2022–23.
- ❖ The guideline provides a uniform framework for estimating Gross District Domestic Product (GDDP), Net District Domestic Product (NDDP), and district-level Per Capita Income.

- ❖ It aims to ensure consistency, comparability, and methodological standardisation of district-level economic statistics across States and Union Territories.
- ❖ The guideline primarily recommends a bottom-up approach using district-level data, with top-down methods where data gaps exist.
- ❖ Currently, 26 States/UTs compile DDP estimates, and MoSPI is working to bring all States/UTs under a common framework.



73rd NEC Plenary Meeting



- ❖ The 73rd Plenary Meeting of the North Eastern Council (NEC) outlined a multi-sectoral development strategy for the North Eastern Region aligned with the vision of Viksit Bharat 2047.
- ❖ Eight high-level task forces submitted action plans covering sectors such as investment, agriculture, infrastructure, tourism, sports, and handicrafts.
- ❖ Around 6,500 previously unbanked villages were integrated into the banking system, raising UPI adoption to nearly 90% in the region.
- ❖ The Rising North East Investment Summit secured investment commitments worth ₹4.5 lakh crore.

- ❖ The North Eastern Council (NEC) is a statutory body established under the North Eastern Council Act, 1971, functioning under the Ministry of Development of North Eastern Region (DoNER).

SCIENCE AND TECHNOLOGY NEWS

Blue Moon and Micromoon

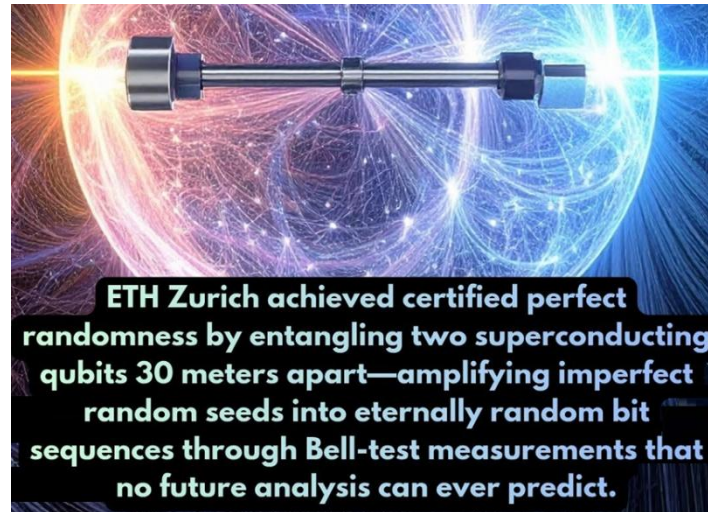


- ❖ A rare Blue Moon–Micromoon event was observed on 31 May 2026, making it an uncommon lunar phenomenon.
- ❖ A Blue Moon is the second full moon occurring within the same calendar month.
- ❖ A Micromoon occurs when a full moon coincides with the Moon being near Apogee, its farthest point from Earth.
- ❖ During a micromoon, the Moon appears slightly smaller and less bright than an average full moon.
- ❖ Blue Moons generally occur once every two to three years, making them relatively rare.
- ❖ The last Blue Moon–Micromoon combination was observed in October 2020.

World's First Perfect Randomness

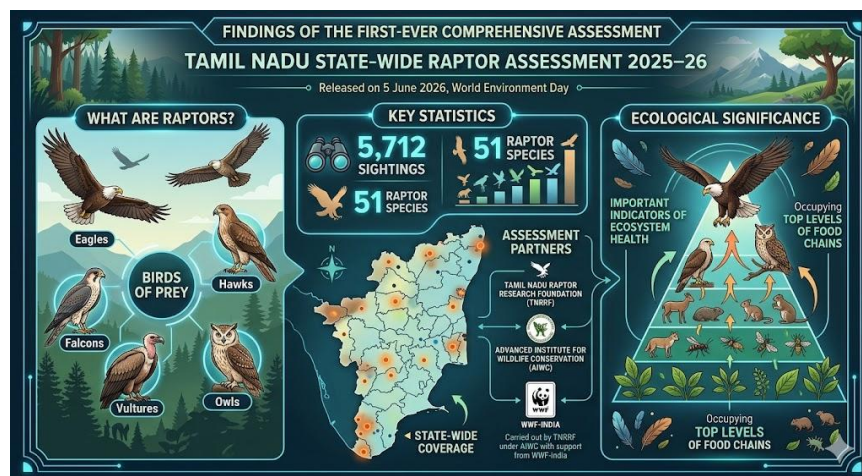
- ❖ Physicists at ETH Zurich, Switzerland, achieved the world's first certifiably perfect randomness using quantum entanglement.

- ❖ The breakthrough used entangled quantum bits (qubits) and Bell-test experiments to generate truly unpredictable random numbers.
- ❖ Researchers conducted over one billion trials in about nine hours to verify randomness.
- ❖ The method demonstrated randomness amplification, converting imperfect randomness into perfectly random outputs.
- ❖ Unlike conventional generators, the system is device-independent, relying on quantum behaviour rather than trusted hardware.



ENVIRONMENT NEWS

Tamil Nadu State-Wide Raptor Assessment 2025–26



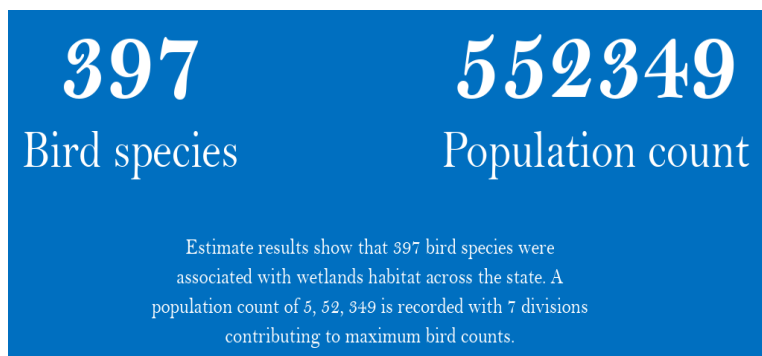
- ❖ Tamil Nadu released the findings of its first-ever comprehensive state-wide raptor assessment on 5 June 2026 on the occasion of World Environment Day.



- ❖ Raptors are birds of prey, such as eagles, hawks, falcons, vultures, and owls.
- ❖ It recorded 5,712 sightings belonging to 51 raptor species across the state.
- ❖ The assessment was carried out by the Tamil Nadu Raptor Research Foundation (TNRRF) under the Advanced Institute for Wildlife Conservation (AIWC) with support from WWF-India.
- ❖ Raptors are considered important indicators of ecosystem health because they occupy the top levels of food chains.

Tamil Nadu Synchronised Bird Estimate 2025

- ❖ The findings of the Tamil Nadu Synchronised Bird Estimate 2025 were released by the Tamil Nadu Forest Department.
- ❖ The survey was conducted in two phases: Wetland Birds (8–9 March 2025) and Terrestrial Birds (15–16 March 2025).
- ❖ A total of 798 bird species were recorded across the state, including 397 wetland species and 401 terrestrial species.
- ❖ The survey documented about 7.8 lakh birds across diverse habitats in Tamil Nadu.
- ❖ It recorded 26 endangered bird species out of the 37 endangered species known from the state.
- ❖ The estimate also documented 17 nocturnal bird species and a large number of migratory birds.



HAWK Wildlife Management System

- ❖ Kerala launched HAWK (Hostile Activity Watch Kernel) as India's first judiciary-integrated digital system for wildlife offence management.
- ❖ HAWK links forest offence records with the District Court Management System through an Application Programming Interface (API).

- ❖ It tracks the complete lifecycle of wildlife crime cases, from the Preliminary Offence Report to court verdicts.
- ❖ The system creates a centralised database and reduces the need for physical paperwork.
- ❖ It provides dashboards for forest officials to monitor case pendency, investigations, and crime patterns.
- ❖ HAWK also serves as an ecological intelligence platform by analysing data on wildlife mortality, illegal weapon seizures, vehicles involved, and repeat offenders.

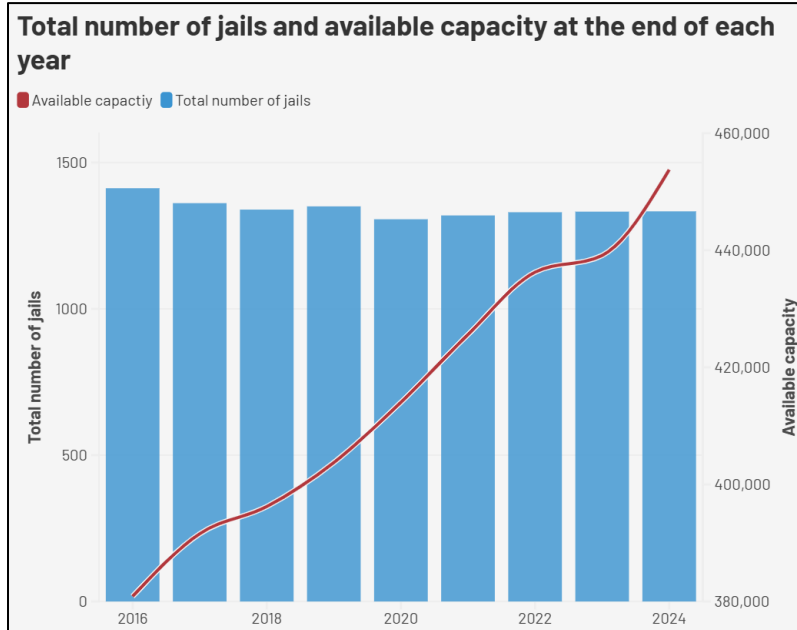


REPORTS AND INDICES

Prison Statistics 2024 report

- ❖ The Prison Statistics India 2024 report highlighted continued overcrowding in Indian prisons, mainly due to a high proportion of undertrial prisoners.
- ❖ India had 1,333 prisons with a capacity of 4.53 lakh inmates, but housed over 5.11 lakh inmates in 2024.
- ❖ The national prison occupancy rate stood at 112.7%, indicating overcrowding beyond sanctioned capacity.
- ❖ Undertrial prisoners accounted for about 73% of the total prison population in 2024.
- ❖ More than half of the States and Union Territories (UTs) recorded occupancy rates above 100%.

- ❖ Delhi had the highest prison occupancy rate at 194%, and over 87% of its inmates were undertrials.



AI Footprint Report 2026



- ❖ The United Nations University Institute for Water, Environment and Health (UNU-INWEH) released the report “Environmental Cost of AI's Energy Use: Carbon, Water and Land Footprints”.

- ❖ Global data centres consumed about 448 Terawatt-hours (TWh) of electricity in 2025, projected to reach 945 TWh by 2030.
- ❖ Data-centre operations could require 9.3 trillion litres of water annually by 2030 for cooling and electricity generation.
- ❖ Artificial Intelligence (AI)-related electricity infrastructure may occupy over 14,500 sq km of land by 2030.
- ❖ Inference (running AI models for user queries) accounts for 80–90% of AI's total energy consumption.
- ❖ AI infrastructure could generate up to 2.5 million tonnes of electronic waste (e-waste) annually by 2030.
- ❖ Over 90% of global AI computing capacity is concentrated in the United States and China, highlighting a growing digital divide.

