



**September - 10**

## **TNPSC BITS**

- ❖ Author Amish Tripathi launched his new book, 'The Chola Tigers: The Avengers of Somnath', part of the Indic Chronicle series, in Chennai.
- ❖ Indian Navy's First Training Squadron (1TS), comprising INS Tir, INS Shardul, and ICGS Sarathi, arrived at Port Victoria, Seychelles, for a training deployment.
- ❖ Shilp Samagam Mela 2025 was inaugurated on 5 September at Freedom Park, Bengaluru, organised by the Ministry of Social Justice and Empowerment in collaboration with TULIP.
- ❖ UIDAI recorded over 221 crore Aadhaar authentications in August, including 18.6 crore AI-based face verifications, reflecting growing digital adoption and secure identity use.
- ❖ The Royal Bhutan Buddhist Temple was inaugurated at Rajgir, Bihar, by the Bhutanese Prime Minister Tshering Tobgay.
- ❖ The 20th Global Sustainability Summit in Delhi was organized by the CII-ITC Centre of Excellence for Sustainable Development.
  - The summit aimed to promote inclusive, resilient, and sustainable growth by integrating sustainability into business and policy frameworks.
- ❖ Every year, Skyscraper Day is observed on 3rd September to celebrate these towering wonders of architecture and engineering.

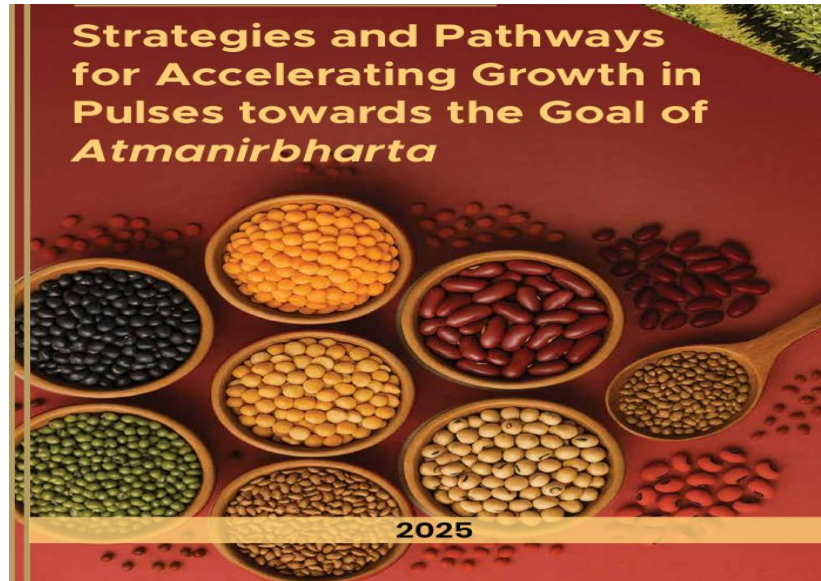
## **NATIONAL NEWS**

### **Atmanirbharta in the Pulses Sector**

- ❖ NITI Aayog released a report titled "Strategies and Pathways for Accelerating Growth in Pulses towards the Goal of Atmanirbharta."
- ❖ The report is based on a field survey of 885 farmers across Rajasthan, Madhya Pradesh, Gujarat, Andhra Pradesh, and Karnataka.
- ❖ India is the world's largest producer and consumer of pulses, critical for food security and sustainable agriculture.
- ❖ Pulse production rose from 16.35 million tonnes in 2015–16 to 26.06 million tonnes in 2022–23, reducing import dependence from 29% to 10.4%.
- ❖ The Union Budget 2025–26 announced the Mission for Atmanirbharta in Pulses, focusing on pigeon pea, black gram, and lentil.



- ❖ The report projects pulse production to reach 30.59 million tonnes by 2030 and 45.79 million tonnes by 2047.
- ❖ The strategy includes horizontal expansion by using untapped lands and vertical expansion by improving yields and farming practices.
- ❖ It recommends district-wise clustering, adoption of high-quality seeds, and “One Block–One Seed Village” hubs facilitated by farmer producer organisations.
- ❖ The goal is to increase domestic pulse supply to 48.44 million tonnes by 2030 and 63.64 million tonnes by 2047.



### Angikaar 2025



- ❖ Angikaar 2025 campaign was launched by the Ministry of Housing and Urban Affairs under PM Awas Yojana – Urban 2.0.
- ❖ It aims to create awareness, fast-track application verification, and expedite completion of sanctioned houses.
- ❖ Over 1.2 crore houses have been sanctioned under PMAY-U, with 94 lakhs already completed.
- ❖ The campaign will support the delivery of remaining houses through community mobilisation and scheme convergence.
- ❖ It focuses on ensuring last-mile delivery and holistic development for urban housing beneficiaries.

## **TPCR-2025**



- ❖ India has unveiled the Technology Perspective and Capability Roadmap 2025 (TPCR-2025), a 15-year defence preparedness blueprint.
- ❖ The roadmap outlines measures for credible nuclear deterrence, including mobile decontamination units and command-and-control infrastructure.
- ❖ It includes unmanned ground vehicles for CBRN (chemical, biological, radiological and nuclear) reconnaissance operations.
- ❖ The Army has projected stealth drones with a 1,500 km range and 60,000 ft altitude, equipped with NBC sensors and electronic warfare payloads.
- ❖ TPCR-2025 includes loitering munitions, AI-enabled targeting systems and integrated surveillance drones.

- ❖ It proposes 15 km range electronic denial bubbles and adaptive jamming systems to counter hostile drone swarms.

## INTERNATIONAL NEWS

### India and Singapore - Diplomatic Partnership

- ❖ India and Singapore marked 60 years of diplomatic ties by unveiling a strategic roadmap to deepen cooperation in trade, technology, defense, and sustainability.
- ❖ The plan expands their Comprehensive Strategic Partnership across eight key areas, including green technologies and digital finance.
- ❖ The partnership emphasizes people-to-people ties, with new student programs and a National Centre of Excellence in Advanced Manufacturing in Chennai.



### Essential Medicines 2025

- ❖ The World Health Organization (WHO) released the 24th edition of the Model List of Essential Medicines (EML) and the 10th edition for children (EMLc).
- ❖ Twenty new medicines were added to the adult list and fifteen to the children's list, reflecting urgent public health needs.
- ❖ Cancer is the second leading cause of death globally, causing nearly 10 million deaths each year.
- ❖ Only cancer medicines proven to prolong life by at least 4 to 6 months were added after strict evaluation.



- ❖ Pembrolizumab, an immune checkpoint inhibitor, was added for metastatic cervical, colorectal, and non-small cell lung cancers.
- ❖ Atezolizumab and cemiplimab were included as alternative immunotherapy options for lung cancer.
- ❖ Diabetes affects over 800 million people worldwide, with many untreated, while more than one billion suffer from obesity.
- ❖ Glucagon-like peptide-1 (GLP-1) receptor agonists semaglutide, dulaglutide, and liraglutide were added for type 2 diabetes with cardiovascular or kidney disease and obesity.
- ❖ The dual receptor agonist tirzepatide, targeting GLP-1 and glucose-dependent insulinotropic polypeptide (GIP), was also added.
- ❖ These medicines help improve blood sugar control, reduce heart and kidney complications, and support weight loss.
- ❖ The Model Lists are updated biennially to promote affordable access to priority medicines in over 150 countries worldwide.

The infographic features a dark blue background. On the left, there is a white pill-shaped icon containing a blue 'E' and the letters 'EML' in blue. To the right of this icon, the text 'Model List of Essential Medicines' is written in white. Below this, five statistics are listed in white: '43 years of history', '2922 committee decisions', '554 medicines', '379 diseases covered', and 'Now also electronic'.

**EML** Model List of Essential Medicines

43 years of history

2922 committee decisions

554 medicines

379 diseases covered

Now also electronic

### **HealthAI Global Regulatory Network**

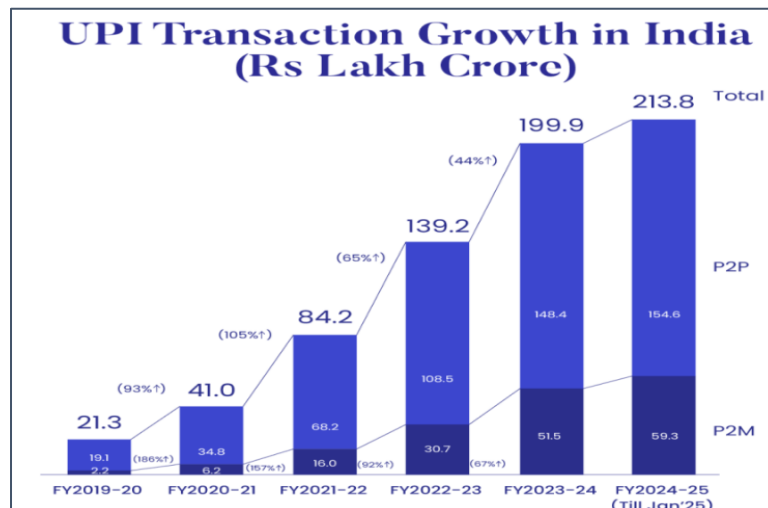
- ❖ India has joined the HealthAI Global Regulatory Network (GRN) to promote the safe and effective use of artificial intelligence (AI) in healthcare.
- ❖ The Indian Council of Medical Research - National Institute for Research in Digital Health and Data Science (ICMR - NIRDHDS) and IndiaAI will collaborate with HealthAI and other members to share safety protocols.

- ❖ They will also monitor AI performance in clinical settings.
- ❖ The partnership aims to strengthen AI governance and accelerate responsible AI adoption in India's healthcare system.
- ❖ HealthAI GRN includes pioneer countries like the UK and Singapore, focusing on global cooperation, transparency, and patient safety.



## ECONOMY NEWS

### UPI Transaction Limits



- ❖ The National Payments Corporation of India (NPCI) has increased UPI limits for specific verified merchant categories effective September 15, 2025.
- ❖ The per-transaction limit for capital markets, insurance, and government e-Marketplace has been raised from ₹2 lakh to ₹5 lakh.
- ❖ The 24-hour cumulative limit for these categories is now ₹10 lakh, up from the earlier lower limits.

- ❖ Credit card payments now have a ₹5 lakh per-transaction limit and a ₹6 lakh daily limit via UPI.
- ❖ Collections like loan repayments and EMIs also have a ₹5 lakh per-transaction and ₹10 lakh daily limit.
- ❖ Limits apply only to Person to Merchant (P2M) transactions with verified merchants; Person to Person (P2P) limits remain at ₹1 lakh.

## SCIENCE AND TECHNOLOGY NEWS

### Blood Moon 2025

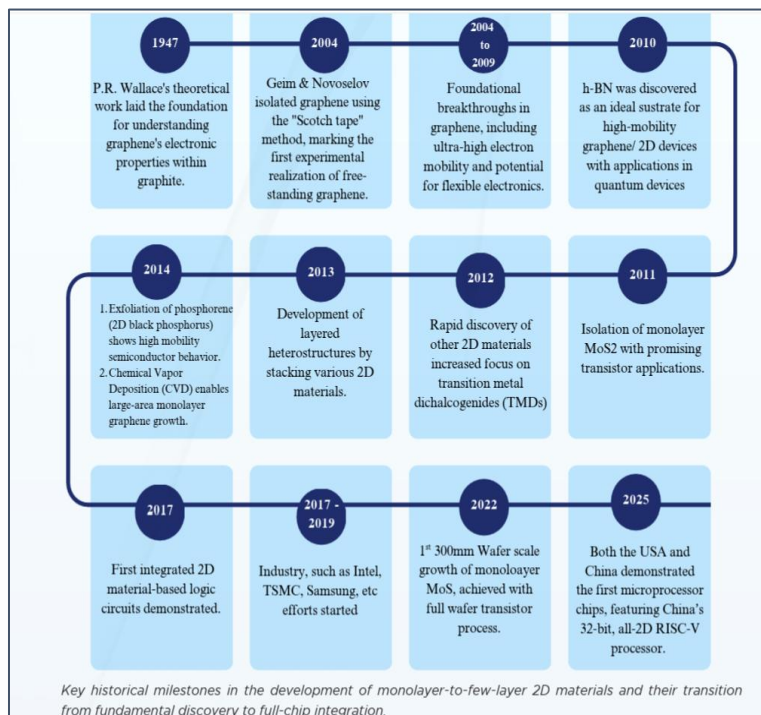


- ❖ A total lunar eclipse, also called a Blood Moon, was observed across India on September 7, 2025.
- ❖ The Moon appeared deep red during totality due to sunlight scattering through the Earth's atmosphere.
- ❖ This was the longest total lunar eclipse seen from India since 2022 and the first visible nationwide since July 27, 2018.
- ❖ A Blood Moon occurs during a total lunar eclipse when Earth casts its full shadow on the Moon.
- ❖ The next total lunar eclipse visible from India is expected on December 31, 2028.

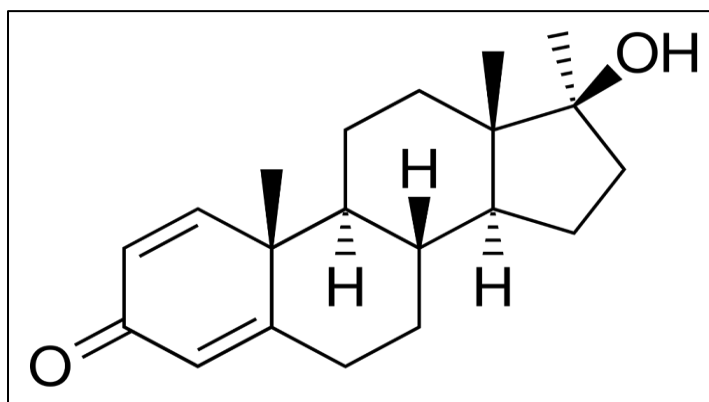
### Future Front Quarterly Insights series

- ❖ NITI Aayog's Frontier Tech Hub released the fourth edition of its Future Front Quarterly Insights series on two-dimensional (2D) materials.

- ❖ The report was developed in collaboration with the Indian Institute of Science (IISc), Bengaluru.
- ❖ Two-dimensional materials are 200 times stronger than steel and conduct electricity more efficiently than copper.
- ❖ These materials are about 1/80,000th the width of a human hair.



## Methandienone LTM

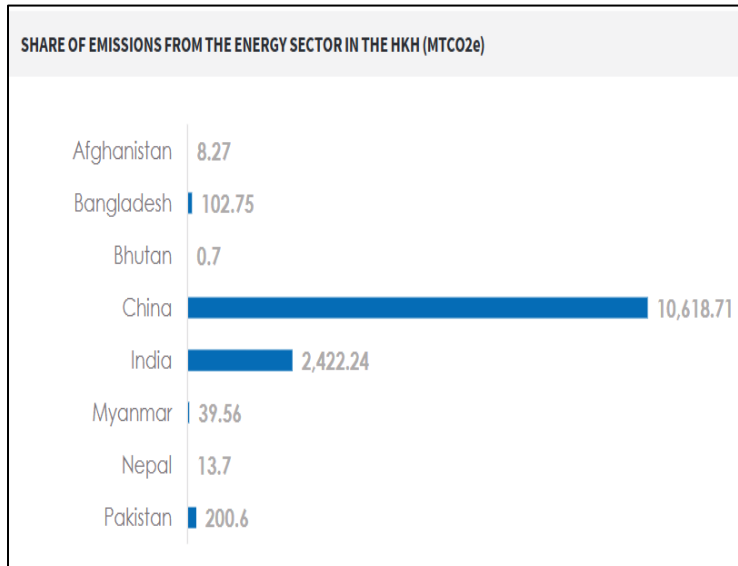


- ❖ India has developed a rare reference material, Methandienone Long-Term Metabolite (LTM), through collaboration between NIPER Guwahati and NDTL.
- ❖ The material aids in detecting long-term anabolic steroid use, even months after intake, enhancing anti-doping capabilities.

- ❖ It is one of 22 reference materials being developed by India, with 12 synthesized since 2020.

## REPORTS AND INDICES

### ICIMOD Report 2025



- ❖ The International Centre for Integrated Mountain Development (ICIMOD) released a report titled “Together We Have More Power: Status, Challenges, and the Potential for Regional Renewable Energy Cooperation in the Hindu Kush Himalaya.”
- ❖ The report was launched during Asia-Pacific Clean Energy Week in Bangkok.
- ❖ Countries in the Hindu Kush Himalaya (HKH) region are utilizing only 6.1% of their total renewable energy potential.
- ❖ The region has a total hydropower potential of 882 GW, with 635 GW from transboundary river systems.
- ❖ Only 49% of the identified hydropower potential is currently harnessed.
- ❖ Solar and wind energy potential in the HKH is estimated at around 3 Terawatts.
- ❖ Total renewable energy targets of HKH countries are currently 1.7 Terawatts, according to their Nationally Determined Contributions.
- ❖ Renewable energy potential within the HKH alone exceeds 3.5 Terawatts.
- ❖ Bhutan and Nepal generate 100% of their electricity from renewable sources.
- ❖ Fossil fuels account for 98% of electricity generation in Bangladesh, 77% in India, 76% in Pakistan, 67% in China, and 51% in Myanmar.

- ❖ Biofuels and waste contribute two-thirds of Nepal's Total Primary Energy Supply (TPES), half of Myanmar's, and one-quarter of Bhutan's and Pakistan's TPES.
- ❖ Around two-thirds of current and planned hydropower capacity is vulnerable to glacier-related risks.
- ❖ The report promotes "dam equivalents" — modern alternatives to large dams, including urban water storage, climate-resilient irrigation, and solar and wind energy.

## STATES' NEWS

### Ratings for Coal Mines



- ❖ NLC India Limited (NLCIL) lignite and coal mines received five-star ratings in the Union Ministry of Coal survey for 2023-24.
- ❖ Lignite Mine 1A in Neyveli, Talabira II and III coal mines in Odisha, and Barsingar lignite mine in Rajasthan secured first place with five-star ratings.
- ❖ NLCIL's Lignite Mines I and II in Neyveli achieved four-star ratings.
- ❖ The Ministry of Coal's star rating policy evaluates mines on seven parameters, including mining operations, environment, technology adoption, economic performance, rehabilitation, employee compliance, and safety.

## IMPORTANT DAYS

### Teacher's Day 2025 - September 05

- ❖ The date marks the birth anniversary of Dr Sarvepalli Radhakrishnan.
- ❖ He represented India at UNESCO after Independence and was later elected Vice President in 1952.

- ❖ He served as the President of India from 1962 to 1967.
- ❖ He was awarded the Bharat Ratna in 1954 and nominated 27 times for the Nobel Prize.

India's first vice-president & second President,  
**Dr Sarvepalli Radhakrishnan**, was died on Apr 17, 1975

## INDIA'S MOST FAMOUS TEACHER

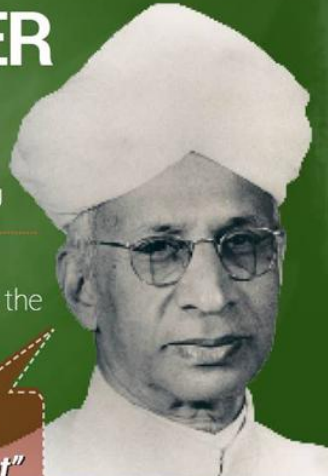
Awarded the Bharat Ratna, Order of Merit, Knight Bachelor, Templeton Prize

Taught in Madras Presidency College, University of Mysore, University of Calcutta, BHU

Knighted by King George V in 1931 for his services to education. Stopped using the title 'Sir' after India's independence

Placed Indian Philosophy on the world map

**“Reading a book gives us the habit of solitary reflection and true enjoyment”**



## MISCELLANEOUS NEWS

### UT Status for Kuki-Zo Groups





- ❖ Kuki-Zo insurgent groups signed a suspension of operations (SoO) pact with the Manipur government and the Ministry of Home Affairs on September 2, 2025.
- ❖ Future talks will focus on the demand for a union territory with a legislature for the Kuki-Zo areas.
- ❖ The demand shifted from local autonomy to union territory after ethnic violence in May 2023.
- ❖ Manipur government withdrew from the pact on February 29, 2024, before President's Rule was imposed.

