

September - 22

## TNPSC BITS

- ❖ Dr. V. Mohan has received the inaugural Diabetes Global Impact Prize 2025 from the European Association for the Study of Diabetes, recognizing his lifelong contributions to diabetes care and research.
- ❖ The Prime Minister laid the foundation stone of India's first Pradhan Mantri Mega Integrated Textile Region and Apparel (PM MITRA) Park in Dhar district, Madhya Pradesh.

## TAMIL NADU NEWS

### Tamil Nadu State Highways Authority



தமிழ்நாடு மாநில நெடுஞ்சாலை ஆணையம் தொடக்கம்!

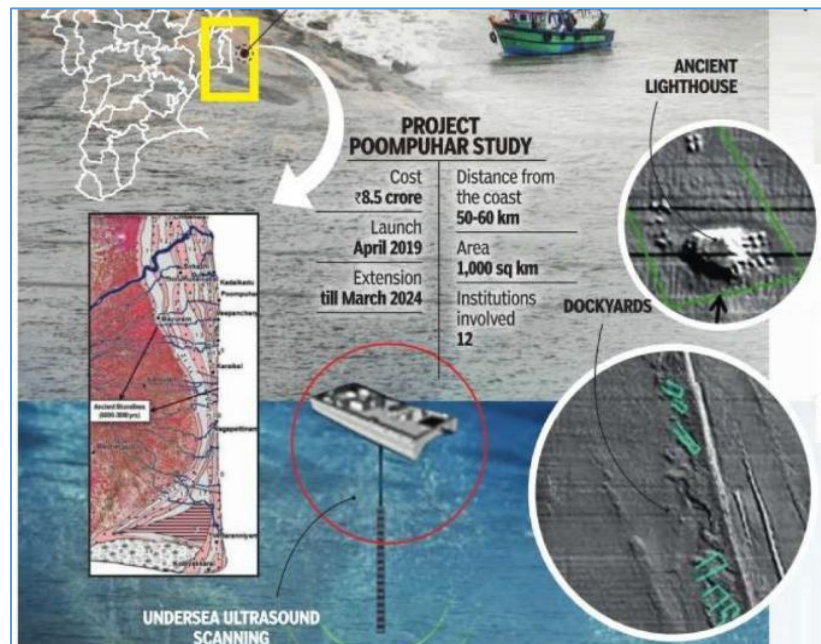
சென்னை கிண்டியில் தமிழ்நாடு  
மாநில நெடுஞ்சாலை ஆணையத்தை  
தொடங்கி வைத்து, அதற்கான  
இலச்சிணையை வெளியிட்டார்  
முதலமைச்சர் மு.க.ஸ்டாலின்.

- ❖ Tamil Nadu Chief Minister inaugurated the Tamil Nadu State Highways Authority (TANSHA) on September 19, 2025, in Chennai.
- ❖ The Chief Minister also released the official logo of the authority.
- ❖ The State government established TANSHA in the year 2024.

- ❖ TANSHA will implement major road infrastructure projects in Tamil Nadu, including four-lane corridors and expressways, through a public-private partnership.

### Deep-Sea Exploration at Poompuhar

- ❖ The Tamil Nadu State Department of Archaeology launched underwater archaeological explorations off the coast of Poompuhar.
- ❖ The exploration began on September 19, 2025, after a gap of more than two decades.
- ❖ The project is being carried out in collaboration with the Indian Maritime University.
- ❖ Poompuhar, also known as Kaveripoompattinam, is located in the Mayiladuthurai district.
- ❖ The survey involves advanced equipment such as side-scan sonar, echo sounders, ROV (remotely operated vehicle), and sub-bottom profilers.



## NATIONAL NEWS

### Section 498A Cases

- ❖ The Supreme Court upheld the Allahabad High Court's 2022 guidelines introducing a two-month 'cooling period' in Section 498A cases.

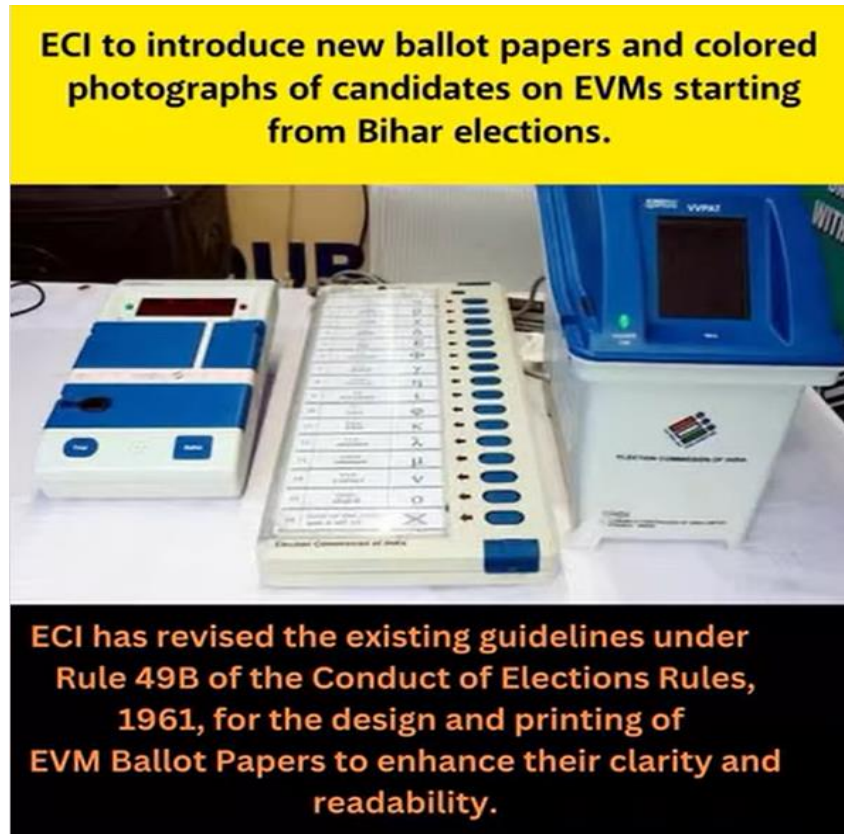
- ❖ During this cooling period, no coercive action can be taken, and the matter is referred to a Family Welfare Committee (FWC).
- ❖ The ruling came in the case Shivangi Bansal vs Sahib Bansal, decided on July 22, 2025.
- ❖ Critics say the cooling period delays justice and undermines the autonomy of criminal justice agencies.
- ❖ Section 498A was originally enacted to address cruelty against women in matrimonial settings.
- ❖ The courts have previously introduced checks like preliminary enquiry, arrest guidelines (Arnesh Kumar, 2014), and bail safeguards (Satender Kumar Antil, 2022).
- ❖ A similar FWC model in Rajesh Sharma (2017) was overturned by a three-judge Bench in Social Action Forum for Manav Adhikar (2018).



### **Revised EVM Ballot Design**

- ❖ The Election Commission of India (ECI) revised guidelines for EVM ballot papers under Rule 49B of the Conduct of Elections Rules, 1961.
- ❖ Coloured photographs of candidates will now be printed on EVM ballot papers to improve identification.
- ❖ Serial numbers of candidates and the None of the Above (NOTA) option will be printed in the international form of Indian numerals.
- ❖ These serial numbers will use a bold font with a size for better clarity.

- ❖ Names of candidates and NOTA will be printed in uniform font type and size for easy readability.
- ❖ EVM ballot papers will be printed with pink colour specified for assembly elections based on defined RGB values.



### Seva Parv 2025 – Key Highlights



- ❖ Seva Parv 2025 was launched by the BJP on September 17, 2025, to mark Prime Minister Narendra Modi's 75<sup>th</sup> birthday.



- ❖ The 15-day digital volunteering campaign is hosted on the NaMo App and runs until October 2, 2025.
- ❖ The initiative is based on the theme "Seva he sankalp, rashtra pratham he prerna".

## INTERNATIONAL NEWS

### Genocide in Gaza



- ❖ The UN Commission of Inquiry, after a multi-year investigation, concluded that Israeli authorities have committed genocide in Gaza.
- ❖ It is also confirming long-standing allegations by human rights organizations and genocide scholars.
- ❖ The Commission found “reasonable grounds” for four of five genocidal acts:
  - Killing members of a community,
  - Causing serious bodily and mental harm,
  - Actions aimed at destroying the group, and
  - Preventing births.
- ❖ The UN panel held Israeli authorities at the highest levels responsible for orchestrating a genocidal campaign against Palestinians in Gaza.

- ❖ Israel, founded by survivors of the Holocaust, now faces global isolation due to its actions, continuing ground offensives, and disregard for international law.

## **ECONOMY NEWS**

### **Regulatory Review Cell**

- ❖ RBI establishes a Regulatory Review Cell (RRC), effective from October 1, 2025, to systematically review all banking regulations every five to seven years.
- ❖ The RRC will function under the Department of Regulation and conduct phased reviews of rules affecting banks and other regulated entities.
- ❖ An independent Advisory Group on Regulation (AGR) has been formed to bring external expert feedback into the review process.
- ❖ The six-member AGR aims to enhance stakeholder engagement and leverage industry expertise, with an initial tenure of three years, renewable for an additional two years.



## **SCIENCE AND TECHNOLOGY NEWS**

### **Water-Based Hydrogen Fuel**

- ❖ HONC Gas Private Limited has developed a technology to convert purified water into hydrogen gas.
- ❖ The company is based in Avinashi, Tiruppur district, Tamil Nadu.
- ❖ The technology uses a proprietary multi-stage electrolysis and gas-blending process.

- ❖ The process generates hydrogen fuel instantly from purified water with no carbon emissions.
- ❖ The innovation includes a Gyroid Electrolyte Membrane (GEM) that produces a precise hydrogen and oxygen mix.
- ❖ The GEM technology enables on-demand hydrogen fuel generation without storage or compression.
- ❖ The system uses direct current (DC) or solar power and recycles energy during operation.
- ❖ The generators consume minimal water and are fully indigenously developed.
- ❖ The technology has completed the patenting process.
- ❖ It has been submitted to the State and Central government authorities for approval.

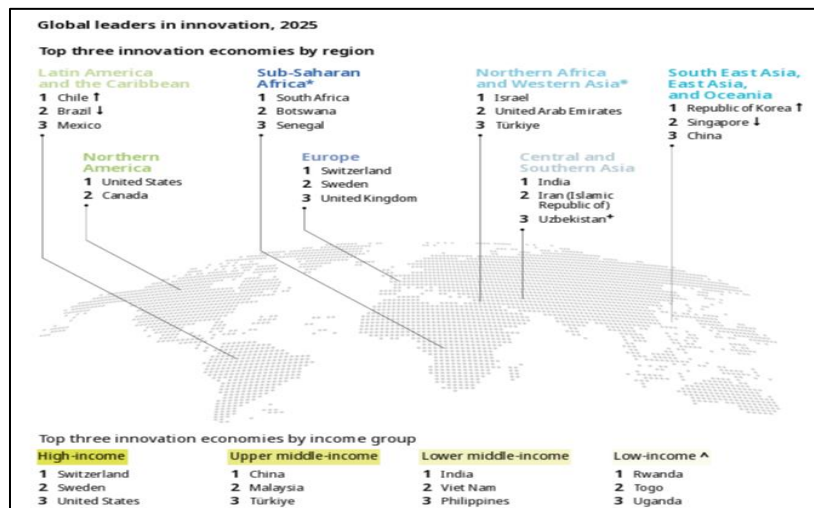


## REPORTS AND INDICES

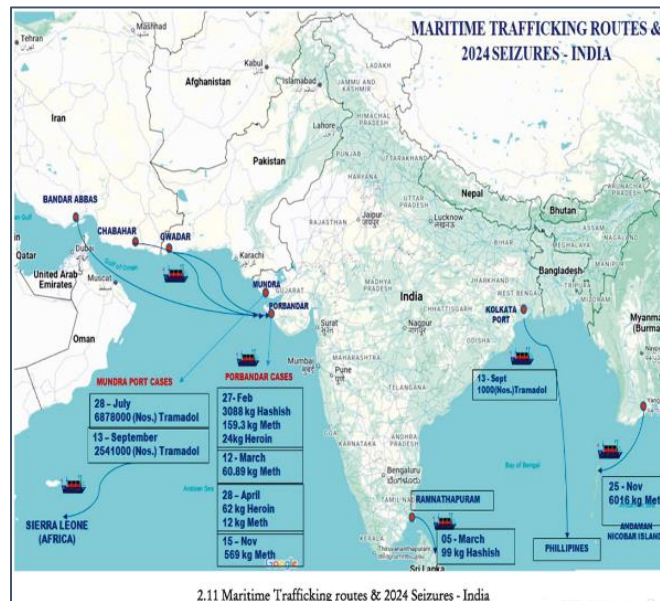
### Global Innovation Index 2025

- ❖ The Report was released by the World Intellectual Property Organisation (WIPO).
- ❖ Switzerland ranks first with a score of 66, Sweden second with 62.6, and the United States third with 61.7.
- ❖ China ranks tenth with a score of 56.6 and leads in patent filings.
- ❖ India ranks 38th globally, up from 48th in 2020.
- ❖ India holds the number one position among lower-middle-income economies.
- ❖ India also ranks first in the Central and Southern Asia region.

- ❖ India performs best in Knowledge and Technology Outputs at 22nd place.
- ❖ India's Market Sophistication ranks 38th globally.
- ❖ India's lowest ranks are Business Sophistication (64th), Infrastructure (61st), and Institutions (58th).
- ❖ Research and Development growth slowed to 2.9 percent in 2024.
- ❖ R&D growth is projected to fall further to 2.3 percent in 2025.



## Narcotics Control Bureau annual report 2024

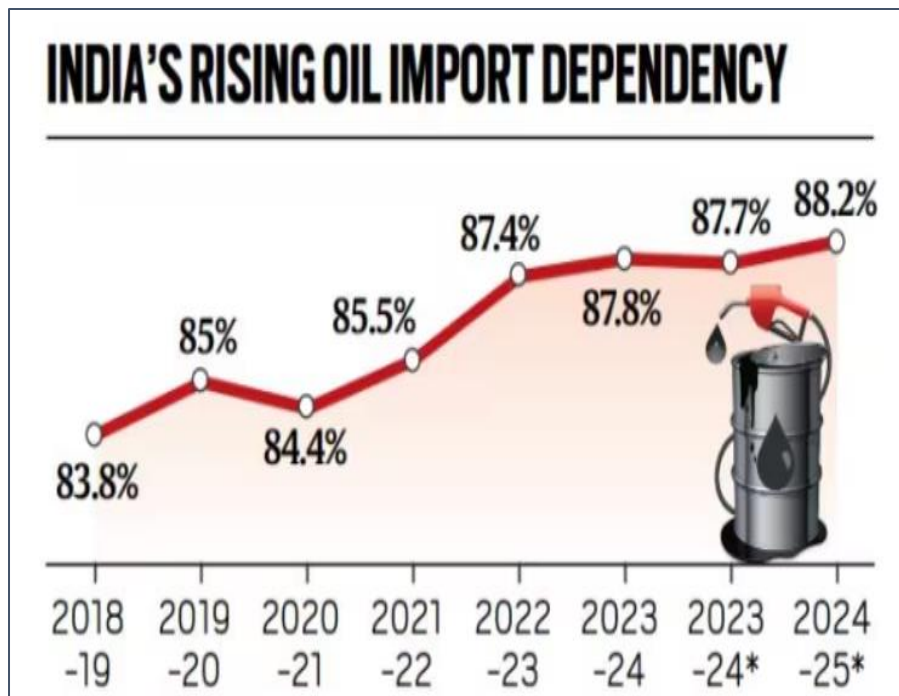


- ❖ According to the Narcotics Control Bureau (NCB) annual report 2024, Punjab seized 1,150 kg of heroin.



- ❖ Punjab accounts for 44.5% of India's heroin seizures but only has 2.3% of the country's population.
- ❖ The total heroin seized across India in 2024 was 2,596 kg.
- ❖ New Delhi ranked second with nearly 234 kg of heroin seized in 2024.
- ❖ Punjab also led in seizure of habit-forming tablets, with 2.94 crore pills confiscated.
- ❖ Uttar Pradesh was second with 51 lakh habit-forming pills seized.
- ❖ In 2024, there were 179 drone-related narcotics seizures compared to three in 2021.
- ❖ Punjab had 163 drone seizures involving 187 kg of heroin, 5.4 kg of methamphetamine, and 4.2 kg of opium.
- ❖ Nepalese nationals topped arrests among foreigners in India for drug-related offenses in 2024, with 203 arrests.
- ❖ Nigeria was second with 106 foreign nationals arrested in drug cases in 2024.

### IEA report 2025



- ❖ The International Energy Agency (IEA) warned that global oil and gas fields are depleting faster than before.
- ❖ India, which imports over 85 per cent of its crude and 45 per cent of its gas, is especially vulnerable.

- ❖ Nearly 90 per cent of upstream oil and gas investment is now used to offset natural decline in existing fields.
- ❖ Without new investment, global oil output could fall by 5.5 million barrels per day each year.
- ❖ Shale and offshore fields decline fastest, with output dropping over 35 per cent in the first year.
- ❖ The IEA urged India to diversify sources, expand domestic exploration, and adopt clean alternatives.
- ❖ New oil and gas projects take nearly 20 years from licensing to production, raising long-term risks.

## STATES' NEWS

### Economic Blockade in Assam



- ❖ The Moran community launched an indefinite economic blockade in Tinsukia district, Assam, on September 15, 2025.
- ❖ The blockade halted transportation of vital resources like oil, coal, tea, and timber through the district.
- ❖ The protest is led by the All-Moran Students' Union (AMSU) with support from six other Moran organisations.

- ❖ The community is demanding Scheduled Tribe (ST) status and a constitutional upgrade of the Moran Autonomous Council.
- ❖ Currently, the Moran council functions under state legislation and lacks Sixth Schedule constitutional protections.
- ❖ The blockade's economic impact on regional industries has prompted calls for urgent government intervention.

### **Sambhaji Maharaj Statue**

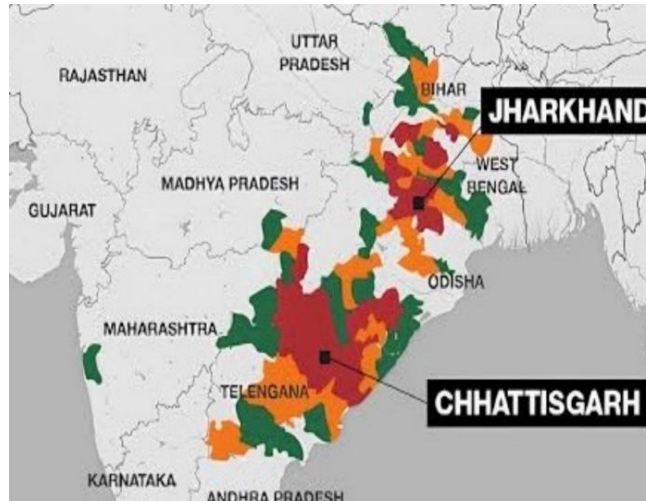
- ❖ A massive statue of Chhatrapati Sambhaji Maharaj is under construction in Moshi, Pimpri-Chinchwad, Pune.
- ❖ Once completed, it will be the tallest statue in the world dedicated to Chhatrapati Sambhaji Maharaj.
- ❖ The London Book of Records honoured the Trust for record participation and hosting the tribute to Sambhaji Maharaj event.



### **Jungle Warfare School in Red Corridor**

- ❖ The government is setting up a jungle warfare school at Karregutta Hills in Chhattisgarh's Bijapur district, a former Maoist stronghold.

- ❖ The school will train forces like the Central Reserve Police Force (CRPF), Chhattisgarh Police, and Commando Battalion for Resolute Action (COBRA) in special jungle and cave intervention tactics.
- ❖ Karregutta Hills, with difficult terrain including caves and waterfalls, was cleared of Naxal control in April 2025 after a major CRPF operation.
- ❖ This real terrain will help improve training quality.
- ❖ CRPF leads counter-insurgency and anti-Naxal operations, with around 100 battalions currently deployed for such tasks.



## PERSONALITIES, AWARDS, AND EVENTS

### NECA 2025 Awards



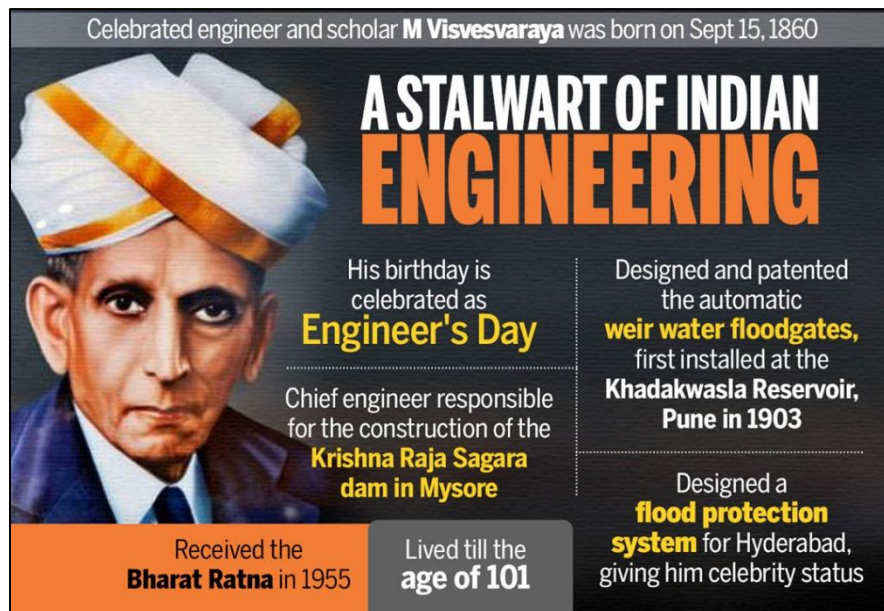
- ❖ Bureau of Energy Efficiency introduces a new category under the National Energy Conservation Awards (NECA) 2025 for content creators and influencers.



- ❖ The initiative aims to leverage digital media to promote awareness of energy efficiency, conservation, and sustainable living practices.
- ❖ NECA was instituted in 1991 and is a prestigious platform recognizing excellence in energy conservation across various sectors.

## IMPORTANT DAYS

### Engineers Day 2025 - September 15



- ❖ This day honours the birth anniversary of Sir Mokshagundam Visvesvaraya, one of India's greatest engineers.
- ❖ In 1912, he was appointed as the 19th Dewan of Mysore, earning the title "maker of modern Mysore".
- ❖ He designed reservoirs like Osman Sagar and Himayat Sagar and proposed systematic flood control solutions.
- ❖ He built the Krishna Raja Sagara (KRS) Dam in 1932, creating Asia's largest reservoir and transforming Mandya agriculture.
- ❖ Theme for 2025 is "Deep Tech & Engineering Excellence: Driving India's Techade".

### World Ozone Day 2025 - September 16

- ❖ This day is commemorating the Montreal Protocol, an environmental agreement that was signed in 1987.



- ❖ On September 16, 2009, the Vienna Convention and the Montreal Protocol became the first treaties in the history of the United Nations to achieve universal ratification.
- ❖ The protocol regulates the production and consumption of nearly 100 man-made chemicals referred to as ozone-depleting substances (ODS).
- ❖ The theme for this year's is "From science to global action".

