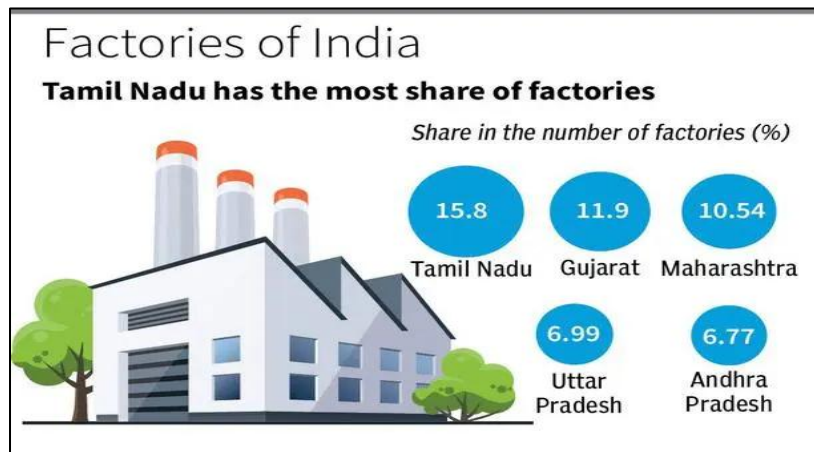# TNPSC BITS

- ❖ Prasanna Kumar Motupalli, Chairman and MD of NLC India Limited, has been awarded the 'Top Rankers Excellence - CEO of the Year Award'.

- ❖ The FIDE World Cup 2025 will take place in Goa, India, from October 30 to November 27, 2025.

- ❖ India hosted its first-ever 3rd Generation Partnership Project (3GPP) Radio Access Network (RAN) meetings in Bengaluru.

- ❖ Five Government Medical College Hospitals (GMCH) in Tamil Nadu, including GMCH Omandurar Estate, Tiruvannamalai GMCH, Theni GMCH, Kanyakumari GMCH, and Tiruvallur GMCH, have received certification from the National Accreditation Board for Hospitals and Healthcare Providers (NABH).

- ❖ The New Development Bank (NDB) has appointed Dr Rajiv Ranjan as its vice president and chief risk officer.

- ❖ The book named 'Secession of the Successful: The Flight Out of New India' is authored by Sanjaya Baru.

- ❖ One of the largest and longest-running multinational military drill '19th edition of Exercise Bright Star 2025' is being held in Egypt with the participation from 43 countries.

- ❖ Exercise Aarogya Setu was organised by the Indian Army at Rupai, Doomdooma in Assam.
  - o It marked a first-of-its-kind civil-military medical fusion exercise to strengthen cooperation between various Arms of Army.

TAMIL NADU NEWS

India's Factory Hub - Tamil Nadu

- ❖ Tamil Nadu topped the country in the number of factories as per the Annual Survey of Industries 2023–2024.

- ❖ The survey was released by the Union Ministry of Statistics and Programme Implementation on August 27, 2025.

- ❖ A total of 1,95,89,131 persons were employed in factories across India.

- ❖ Tamil Nadu accounted for 15.24% of the total factory employment in India.

- ❖ Gujarat followed with 13.07%, and Maharashtra came next with 12.95%.

- Uttar Pradesh had 8.30% and Karnataka had 6.29% of the total industrial workforce.
- Out of 2,60,061 factories in India, Tamil Nadu had the highest share with 15.43%.
- Gujarat stood second with 12.81% of the total factories.
- Maharashtra had 10.20%, followed by Uttar Pradesh with 8.51% and Andhra Pradesh with 6.16%.
- Tamil Nadu ranked third in Fixed Capital with a share of 8.09%.
- The state also stood third in Output with 10.11% of the national share.
- Tamil Nadu was ranked third in Gross Value Added with a contribution of 10.26%.

Factories of India
Tamil Nadu has the most share of factories
Share in the number of factories (%)

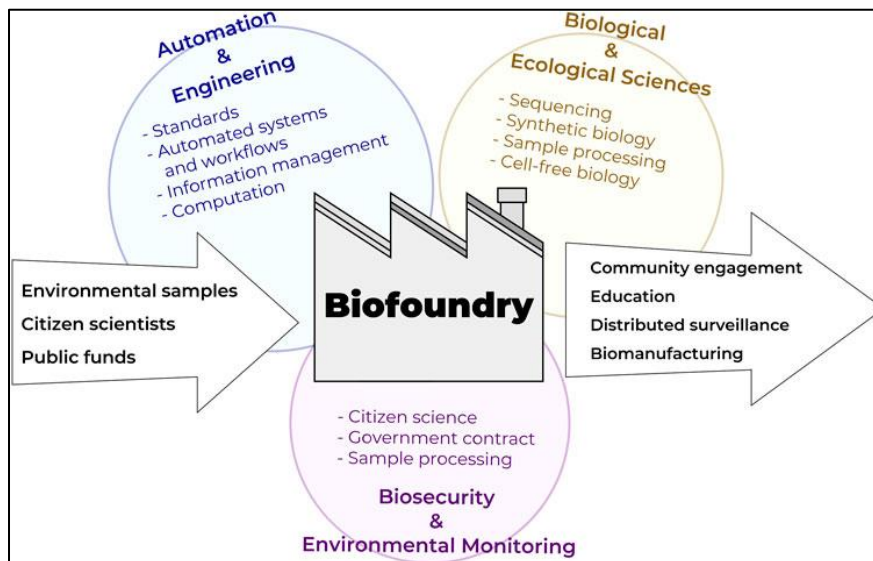| 15.8 | 11.9 | 10.54 |
Tamil Nadu	Gujarat	Maharashtra
6.99	6.77
Uttar Pradesh	Andhra Pradesh

NATIONAL NEWS

Doctrines for Armed Forces Integration

- India unveiled three joint doctrines to promote armed forces integration and joint operations.
- CDS has released the Special Forces (SF) operations doctrine, focusing on interoperability among Army, Navy, and Air Force commandos.
- The SF doctrine includes joint training, upgrading training schools to Joint Service Training Institutes, and standardizing procedures.
- A doctrine for airborne and heliborne operations was released to enhance technology integration and joint training for operational readiness.
- Defence Minister has unveiled the multi-domain operations doctrine for coordinated action across land, sea, air, space, and cyber domains.

- The doctrines aim to build a resilient, agile force capable of leveraging advanced technologies and joint strategies.
- These documents lay the groundwork for future joint planning, execution, and capacity building of India's armed forces.
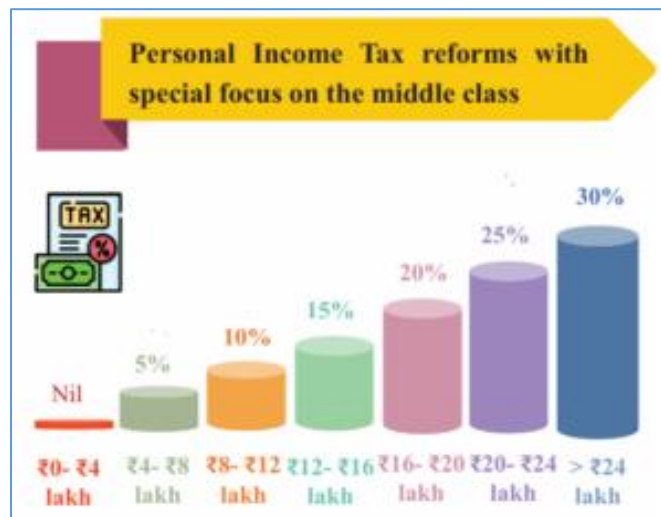

National Biofoundry Network

- The Ministry of Science and Technology launched India's first National Biofoundry Network.
- The network includes six institutions aimed at scaling proof-of-concept developments, enhancing indigenous biomanufacturing, and creating jobs.
- India's bioeconomy grew from $10 billion in 2014 to $165.7 billion in 2024.
- The government targets a bioeconomy of $300 billion by 2030.

ECONOMY NEWS

Personal income tax collection

❖ Personal income tax collections have surpassed corporate taxes for the first time in India's history.

❖ The share of personal income tax in total direct taxes rose sharply from 38.1 per cent in FY14 to 53.4 per cent in FY24.

❖ Corporate taxes declined from 61.9 per cent to 46.6 per cent over the same period.

❖ The number of individual income tax return filers surged 2.3 times, from 30.5 million in FY14 to 69.7 million in FY23.

❖ The number of active GST taxpayers rose from 12.4 million in 2019 to 14.7 million in 2024.

Personal Income Tax reforms with special focus on the middle class

SCIENCE AND TECHNOLOGY NEWS

New World screwworm

❖ The first U.S. human case of New World screwworm was confirmed on August 4, 2025.

❖ New World screwworms are blue-grey blowflies scientifically known as Cochliomyia hominivorax.

❖ Female screwworms lay eggs in open wounds of warm-blooded animals, including humans.

❖ One female screwworm can lay up to 300 eggs at a time and up to 3,000 during her 10–30-day lifespan.

❖ The larvae feed on living tissue, causing painful infestations with a high risk of complications like sepsis if untreated.

❖ Symptoms include non-healing wounds, bleeding, foul smell, and a feeling of larvae movement in the skin.

❖ The U.S. eradicated screwworms in 1966 using the sterile insect technique.

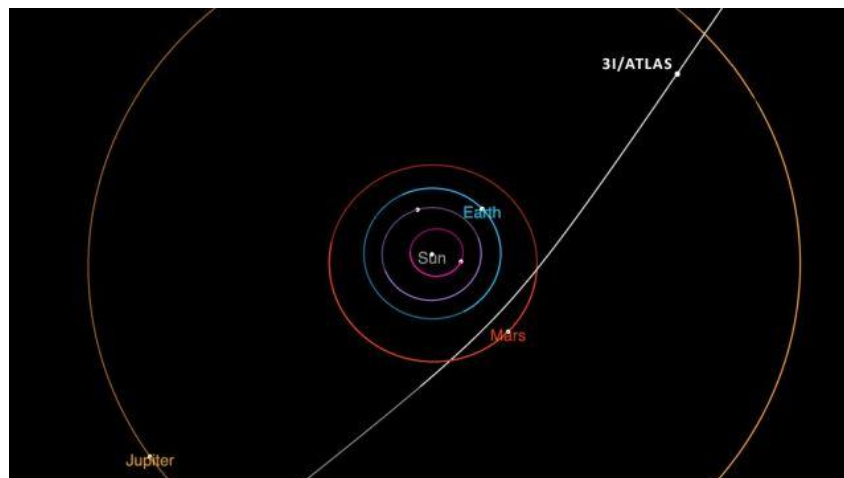❖ The recent outbreaks have occurred in Panama, Costa Rica, Nicaragua, and Honduras.

1st human case of New World screwworm, a flesh-eating parasite, has been detected in the U.S.

Kulasekarapattinam Launch Complex

❖ The new rocket launch pad at Kulasekarapattinam, Thoothukudi district, will handle 20 to 25 satellite launches each year.

❖ Currently, ISRO operates the Satish Dhawan Space Centre (SDSC) in Sriharikota.

❖ Polar Satellite Launch Vehicle (PSLV) and Geosynchronous Satellite Launch Vehicle (GSLV) satellites are launched from SDSC.

❖ India's second launch complex is being constructed at Kulasekara Pattanam to increase launch capacity.

❖ The project was inaugurated by Prime Minister in February 2024.

❖ Construction of the rocket launch pad began on August 27, 2025, with a budget of ₹100 crore.

❖ Rockets will be launched from Kulasekarapattinam using the Small Satellite Launch Vehicle (SSLV).

❖ Sriharikota currently has two operational launch pads, with a third under construction at the SDSC at a cost of about ₹4 crore.

❖ Rockets weighing up to 500 kilograms will be launched from Kulasekarapattinam.

❖ Both ISRO and private companies will launch rockets from the new site.

❖ ISRO plans to begin rocket launches from Kulasekarapattinam by the fourth quarter of 2026.
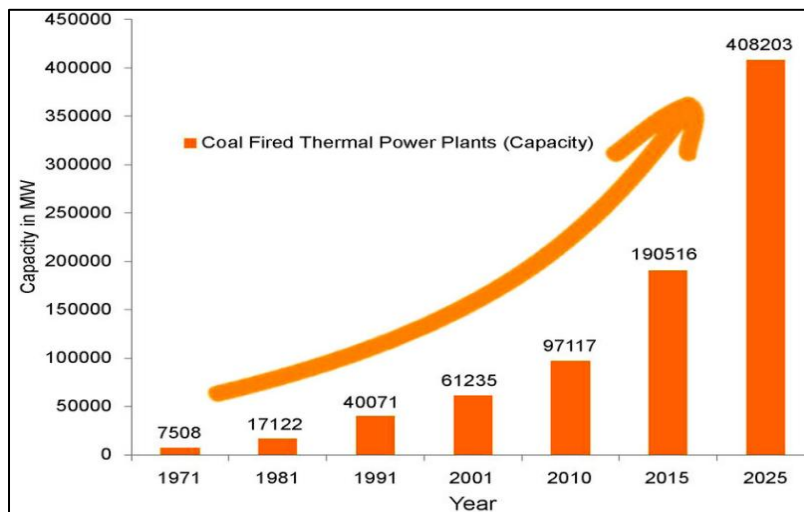

3I/ATLAS – Space Object

❖ The recently discovered object could be an artificial craft rather than a natural celestial body.

❖ The object, currently named 3I/Atlas, is believed to have characteristics different from those of a comet or meteor.

❖ 3I/Atlas is a comet discovered in July 2025 by the ATLAS survey telescope.

❖ It is the third interstellar visitor confirmed to pass through the solar system.

❖ The first was 1I/'Oumuamua in 2017, and the second was 2I/Borisov in 2019.

❖ It will stay at least 1.6 astronomical units away from Earth and is not a threat.

ENVIRONMENT NEWS

Coal Pollution

❖ The report titled "Regulating Coal Operations: Environmental and Social Impacts through the Lens of the National Green Tribunal" was released by the non-profit organization Vikalpa.

❖ Coal accounted for 73 percent of India's total power generation in 2022-23.

❖ It is expected to remain around 50 percent of power generation by 2031-32.

❖ Coal mining and thermal power plants cause air, water, and noise pollution as well as land degradation.

❖ Dust pollution from coal transportation in coal-bearing areas increased PM10 levels to 460 micrograms per cubic meter.

❖ It is five times higher than the acceptable limit.

❖ In Tamil Nadu's Ennore area, fly ash clogged rivers, canals, and floodplains, causing waterlogging and flood risk.

❖ Toxic elements present in fly ash have raised the risks of silicosis, cancer, and neurological diseases.

❖ Heavy metals such as cadmium and lead found near the Ennore thermal plant caused high cancer risks in children and adults.

❖ Many coal plants, including those in Ennore, manipulated emission data and violated pollution control regulations.

IMPORTANT DAYS

World Lake Day 2025 - August 27

World Lake Day
August 27
First-ever World Lake Day, declared by the United Nations!

❖ This year marked the first year of observance.

❖ It aims to raise awareness of the importance of lakes and the sustainable management of lake and related ecosystems.

❖ There are over 117 million lakes on Earth. They cover nearly 4 per cent of the planet's land surface.

MISCELLANEOUS NEWS

Shadow schooling in India

❖ Latest Comprehensive Modular Survey (CMS) on education, was conducted as part of the 80th round of the National Sample Survey (NSS).

❖ Government schools still enroll the majority of students nationwide, accounting for 55.9% of all enrolments.

❖ From villages, nearly two-thirds of children study in government institutions.

❖ In contrast, only 30.1% of city children attending government schools.

❖ 33% of students relying on private coaching beyond classrooms or Shadow schooling.

❖ "Shadow schooling" refers to the additional private tutoring or coaching that students undertake outside regular school hours.

❖ These sessions aim to reinforce classroom learning, prepare students for exams, or give them a competitive edge.

Table 1: % Children enrolled in different types of schools. By age group and sex. 2024

Age group and sex	Govt	Pvt	Other	Not in school	Total
Age 6-14: All	66.8	30.6	0.7	1.9	100
Age 7-16: All	66.0	30.8	0.7	2.5	100
Age 7-10: All	67.5	30.7	0.7	1.2	100
Age 7-10: Boys	64.3	33.8	0.7	1.2	100
Age 7-10: Girls	70.7	27.4	0.6	1.3	100
Age 11-14: All	66.5	30.8	0.7	2.1	100
Age 11-14: Boys	63.4	34.1	0.7	1.9	100
Age 11-14: Girls	69.6	27.5	0.7	2.3	100
Age 15-16: All	60.3	31.3	0.6	7.9	100
Age 15-16: Boys	57.9	33.8	0.6	7.7	100
Age 15-16: Girls	62.4	28.9	0.6	8.1	100

'Other' includes children going to Madarsa or EGS.
'Not in school' includes children who never enrolled or have dropped out.

MAR-a-THON 2025

MOPSW LAUNCHES MAR-A-THON 2025:

Boosting Maritime Startups & Innovation

Ministry of Ports, Shipping and Waterways (MoPSW) launched MAR-a-THON 2025 at iitmadras to Foster Maritime Innovation.

Organised under the Sagarmala Start-up Innovation Initiative (S2I2), the programme seeks to advance Research, Innovation, Start-ups, and Entrepreneurship (RISE) in the maritime sector and served as the curtain-raiser to India Maritime Week 2025. Selected start-ups will receive milestone-based funding support to scale their innovations.

❖ MAR-a-THON 2025 was launched by the Ministry of Ports, Shipping and Waterways.

❖ MAR-a-THON 2025 is a national maritime hackathon.

❖ It is part of the Sagarmala Start-up Innovation Initiative.

❖ The initiative supports research, innovation, start-ups, and entrepreneurship.

Terrier Cyber Quest 2025

❖ The Indian Army launched Terrier Cyber Quest 2025 as a national-level challenge to address critical defence and cybersecurity issues.

❖ The event is jointly organized in New Delhi by the Indian Army, IIT Madras, Indian Army Research Cell (IARC), and CyberPeace.

❖ The 36-hour Bug Hunting Challenge focuses on finding vulnerabilities in BOSS Linux (Bharat Operating System Solutions) within a simulated army environment.

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