

December - 31

## TNPSC BITS

- ❖ TN Chief Minister inaugurated a mini-Tidel Park in Milavittan in Thoothukudi.
- ❖ Tamil Nadu state government extended the Pudhumai Penn scheme to aid 75,028 students who studied from Class VI to Class XII at government-aided schools.
- ❖ The 18<sup>th</sup> edition of Joint Military Exercise SURYA KIRAN is being held between the Indian army and Nepal army in Nepal.
- ❖ The Andhra Pradesh government has declared the Ratha Saptami as a State festival.
- ❖ The GSI Geoscience Museum was inaugurated at the Victoria Market Building in Gwalior, Madhya Pradesh.
- ❖ India's Koneru Humpy regained the women's World rapid chess championship after a gap of five years, held at Newyork, USA.
- ❖ ISRO has successfully carried out the sea level hot test of its CE20 Cryogenic Engine featuring a nozzle area ratio of 100 at the ISRO Propulsion Complex, Mahendragiri.
- ❖ The INS Nirdeshak, the second ship of Survey Vessel (Large) project, was commissioned into the Indian Navy.
- ❖ The Karnataka government has revealed the plan to develop a SWIFT (Startups, Workspaces, Innovation, Finance and Technology) city near Bengaluru.

## TAMIL NADU

### **25<sup>th</sup> anniversary of Thiruvalluvar statue**

- ❖ The silver jubilee celebrations of the Thiruvalluvar statue at Kanyakumari Triveni Sangamam are being held on the 31st December and 1st of January.
- ❖ CM declared this statue in Kanyakumari will be known as 'Statue of Wisdom'.
- ❖ It was dedicated to the people on January 1, 2000 by the then Chief Minister of Tamil Nadu M. Karunanidhi.
- ❖ The total height of the statue and the pedestal combined is 133 feet (41 metres).
- ❖ It denotes the 133 chapters of the Thirukkural.
- ❖ The sculpture of Thiruvalluvar is 95 feet (29 metres) and it stands on a 38 feet (12 metres) pedestal.
- ❖ The pedestal represents the 38 chapters of virtue, the first of three books of the Kural text.

- ❖ The second and third books – wealth and love respectively – are represented by the statue itself.
- ❖ TN Chief Minister also inaugurated the Glass bridge connecting Vivekananda Rock and Thiruvalluvar statue during the event.
- ❖ It is India's first glass bridge on sea.



### **Chola-era Tamil inscription - Bengaluru**

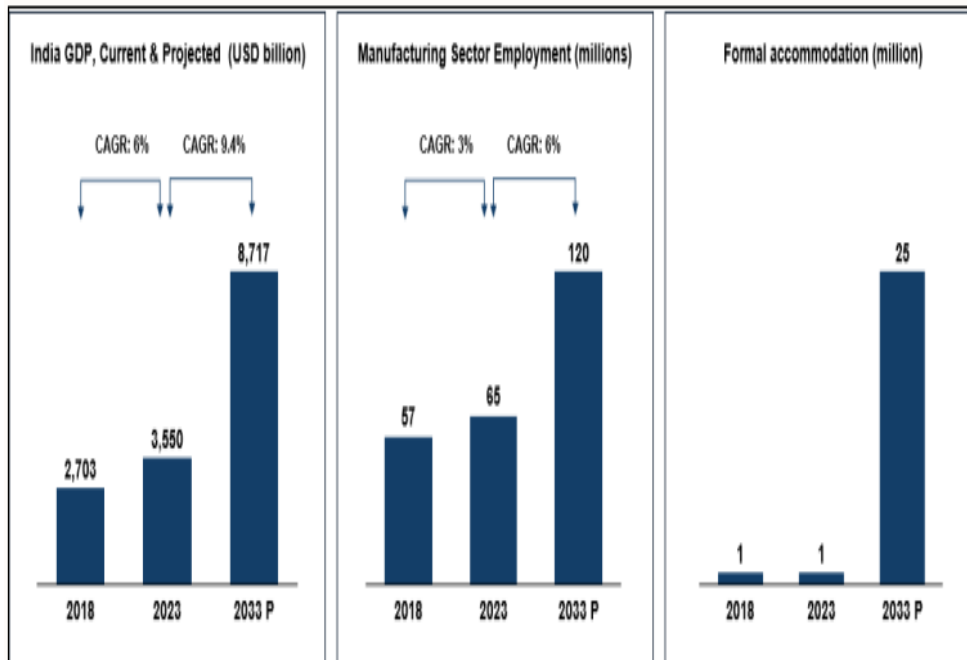


- ❖ The Epigraphy division is taking steps to copy a fragmented Chola-era Tamil inscription engraved on a stone.
- ❖ It is found near Someshwara temple at Kammasandra village in Bengaluru rural district.
- ❖ The inscription in Tamil language dates back to the 11th Century Chola period.

- ❖ It seems to have a record of 12 kandagam (a measure of land) gifted to the Someshwara temple for conducting pujas

## NATIONAL

### S.A.F.E Accommodation Report



- ❖ NITI Aayog released a report on “S.A.F.E. Accommodation - Worker Housing for manufacturing growth”.
- ❖ This report explores the crucial role of secure, affordable, flexible, and efficient (S.A.F.E.) accommodations for the industrial workers in boosting of India’s manufacturing sector.
- ❖ It identifies key challenges, offers actionable solutions, and highlights the pivotal interventions required to scale up such housing facilities across the country.

### India’s Coal Production in 2023-24

- ❖ The country has witnessed the highest ever coal production in the Year 2023-24.
- ❖ The all-India coal production in the year 2023-24 was 997.826 million Tonne (mT).
- ❖ It was 893.191 mT in the year 2022-23 and is increased about 11.71%.
- ❖ During Calendar Year 2024 (up to 15th December, 2024 from January 2024), the country has produced about 988.32 mT (Provisional) of coal.

- ❖ It was about 918.02 mT (Provisional) coal during the same period of last year with a growth of about 7.66%.



### Significant Achievements in Coal Sector in 2023-24

- Highest Ever Coal Production: 997.83 MT (2023-24) vs. 893.19 MT (2022-23), a growth of 11.71%
- Coal Supply: 963.11 MT (up to 15th December 2024, provisional)
- Key Initiatives: SHAKTI Policy, Mine Closure Portal, and Coal Mines Safety Report Portal launched.
- 13,341 appointment letters issued (CIL: 9,384, NLCIL: 3,957).
- 54.06 lakh saplings planted on 2,380 hectares by Coal/Lignite PSUs.

### Internet shutdown in India 2024



- ❖ India saw the fewest number of mobile internet shutdowns in eight years in 2024.
- ❖ There have been 60 shutdowns so far this year as against 96 last year.
- ❖ The most internet shutdowns -132 happened in 2020, following the abrogation of Article 370 of the Constitution.



- ❖ In 2017, the law was amended and the Government promulgated the Temporary Suspension of Telecom Services (Public Emergency or Public Safety) Rule 2017.
- ❖ The States and Union Territories can impose an internet shutdown only in case of a “public emergency” or in the interest of “public safety”, according to the Indian Telegraph Act.

### **India's First Multimodal AI Initiative**

- ❖ BharatGen is an initiative to make generative AI available to citizens in different Indian languages.
- ❖ It aims to develop advanced AI models tailored to India's multifaceted languages and cultures.
- ❖ BharatGen has launched the Bharat Data Sagar initiative to collect primary data, focusing on languages that lack sufficient representation.



### **New SAMARTH Centers**

- ❖ The Ministry of Heavy Industries (MHI) has established four Smart Advanced Manufacturing and Rapid Transformation Hub (SAMARTH) Centres.
- ❖ It aims to enhance competitiveness in the Indian capital goods sector.
- ❖ The 4 Centres are:
  - Centre for Industry 4.0 (C4i4) Lab, Pune;



- IITD-AIA Foundation for Smart Manufacturing, IIT Delhi;
- I-4.0 India @ IISc, Bengaluru; and
- Smart Manufacturing Demo & Development Cell, CMTI, Bengaluru.



## 'Jalvahak' Scheme



# Jalvahak

Revolutionizing Logistics with India's Waterways!

<p><b>Decongest Surface Transport :</b> Boost trade across NW1, NW2 &amp; NW16 with smooth, scheduled services.</p>	<p><b>Economic Advantage :</b> Save logistics cost with incentives of up to 35% on operational expenditure.</p>	<p><b>Efficient &amp; Eco-Friendly :</b> Reduce carbon footprint with sustainable cargo transport.</p>
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- ❖ The Union Ministry for Ports, Shipping & Waterways launched the 'Jalvahak' scheme to promote inland waterways and cargo movement.
- ❖ It aims to unlock the trade potential of inland waterways, reduce logistics costs, and alleviate congestion in road and rail networks.

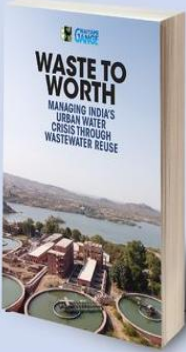
- ❖ It incentivises long-haul cargo movement on National Waterways (NW) 1 (Ganga), 2 (Brahmaputra), and 16 (Barak).
- ❖ Under the scheme, the cargo owners transporting goods over distances exceeding 300 km via waterways will receive up to 35 per cent reimbursement on operating costs.

## Report on Managing Waste 2024


# WASTE TO WORTH

## MANAGING INDIA'S URBAN WATER CRISIS THROUGH WASTEWATER REUSE

**72 PER CENT OF INDIA'S WASTEWATER GOES UNTREATED, POLLUTING NEARBY RIVERS, LAKES AND GROUNDWATER AQUIFERS, AND DEGRADING THE WATER QUALITY**



FOR MORE INFORMATION, PLEASE SCAN THE QR CODE:



- ❖ The report “Waste to Worth: Managing India’s Urban Water Crisis through Wastewater Reuse” was released jointly by the Centre for Science and Environment (CSE) and the National Mission for Clean Ganga (NMCG).
- ❖ India currently treats only 28 per cent of the 72,000 million litres of wastewater generated daily.
- ❖ The Ministry of Jal Shakti mandates that cities recycle at least 20 per cent of the water they consume.
- ❖ Uttar Pradesh leads in untreated wastewater volumes, followed by Maharashtra, Karnataka, Rajasthan, Tamil Nadu, Delhi and Haryana.
- ❖ However, several states have implemented progressive policies.
- ❖ Tamil Nadu has prioritised industrial and urban greening applications.



- ❖ Cities such as Nagpur, Bengaluru and Chennai offer successful examples of the wastewater reuse.
- ❖ Nagpur supplies the treated wastewater to power plants, reducing the freshwater consumption.

## INTERNATIONAL

### Gadhimai Mahotsav

- ❖ It is celebrated every five years; this year's edition will take place at the Gadhimai Temple in Bara District, Nepal.
- ❖ The festival, famous for animal sacrifice, is one of the largest and most controversial slaughter events.
- ❖ It ranks as one of the world's largest animal sacrifice festivals, drawing thousands of devotees from Nepal, India, and beyond.
- ❖ The sacrificial animals include water buffalo, pigs, goats and birds.

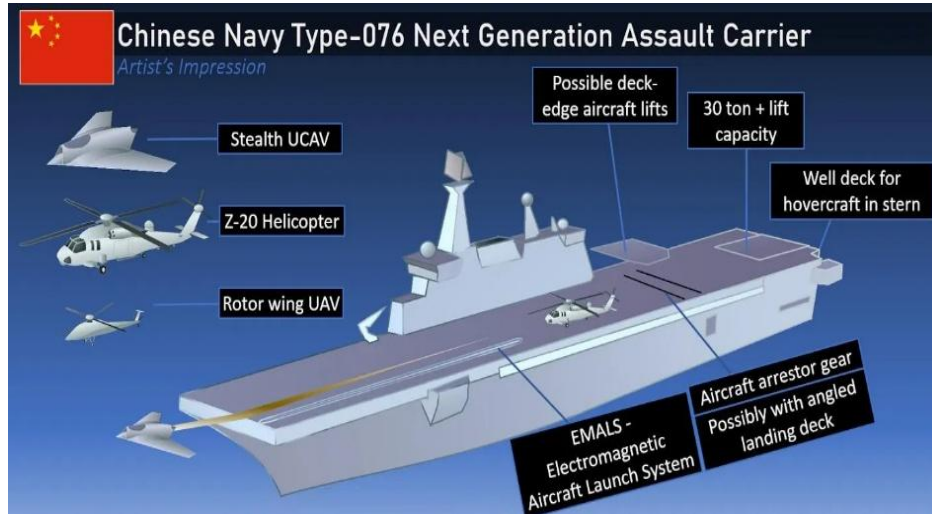


### Type 076 Amphibious Assault Ship – China

- ❖ China has launched its first next-generation Type 076 amphibious assault ship - Sichuan.
- ❖ The Type 076 ranks among the world's largest amphibious assault ships.



- ❖ Sichuan is the first amphibious assault ship in the world to incorporate the electromagnetic launch technology.
- ❖ This allows it to carry helicopters and fighter jets such as the J-15.



## ECONOMY

### RBI's State Finances: A Study of Budgets 2024-25

**Table 1: Revenue Receipts of All State Combined relative to GSDP**

Year	Own Tax Revenue	Own Tax Revenue without SGST	Own Non-Tax Revenue	Tax Devolution	Grants-in-Aid	Revenue Receipts
2019-20	6.4 (45.8)	3.8 (27.7)	1.4 (9.8)	3.4 (24.4)	2.8 (20.0)	13.9 (100.0)
2020-21	6.1 (45.3)	3.8 (28.0)	0.9 (6.8)	3.1 (23.0)	3.4 (24.9)	13.5 (100.0)
2021-22	6.2 (45.6)	3.7 (27.0)	1.0 (7.6)	3.9 (28.4)	2.5 (18.2)	13.7 (100.0)
2022-23 RE	6.7 (46.3)	3.8 (26.5)	1.0 (7.2)	3.6 (25.3)	3.0 (21.2)	14.4 (100.0)
2023-24 BE	7.0 (49.5)	4.0 (28.1)	1.2 (8.3)	3.5 (24.7)	2.5 (17.7)	14.1 (100.0)

Note: Figures in parentheses are percentage shares of total revenue receipts  
Source: State Finances: A Study of Budgets 2023-24, RBI

- ❖ The Reserve Bank of India (RBI) released the Report “State Finances: A Study of Budgets of 2024-25”.
- ❖ State governments contained their consolidated gross fiscal deficit (GFD) within 3% of gross domestic product (GDP).
- ❖ Their revenue deficit stands at 0.2% of GDP during 2022-23 and 2023-24.
- ❖ In 2024-25, States have budgeted a GFD of 3.2% of GDP.

- ❖ Their Capital expenditure rose from 2.4% of GDP in 2021-22 to 2.8% in 2023-24 and budgeted at 3.1% of GDP in 2024-25.
- ❖ States' total outstanding liabilities declined from 31.0% of GDP 2021 to 28.5% in 2024 but remain above the pre-pandemic level.
- ❖ In 2020-21, the combined fiscal deficit of all states had edged up to 4.1 per cent of GDP and their debt-to-GDP ratio had risen to 31 per cent.

## SCIENCE AND TECHNOLOGY

### ISRO's LVM3 Rocket - Multi-Orbit Capability



- ❖ ISRO has successfully conducted a crucial test that will enable its largest rocket LVM3 to inject satellites into orbits at different altitudes, all in a single mission.
- ❖ This restart capability is made possible due to the development of a 'multi-element ignitor'.

- ❖ It can help restart the 'CE-20' Cryogenic engine that sits atop the LVM3 rocket.
- ❖ The final stage of the LVM3 rocket has the Cryogenic engine that is responsible for placing satellites into different designated orbits (altitudes) in space.

## **IRIS<sup>2</sup> satellites**

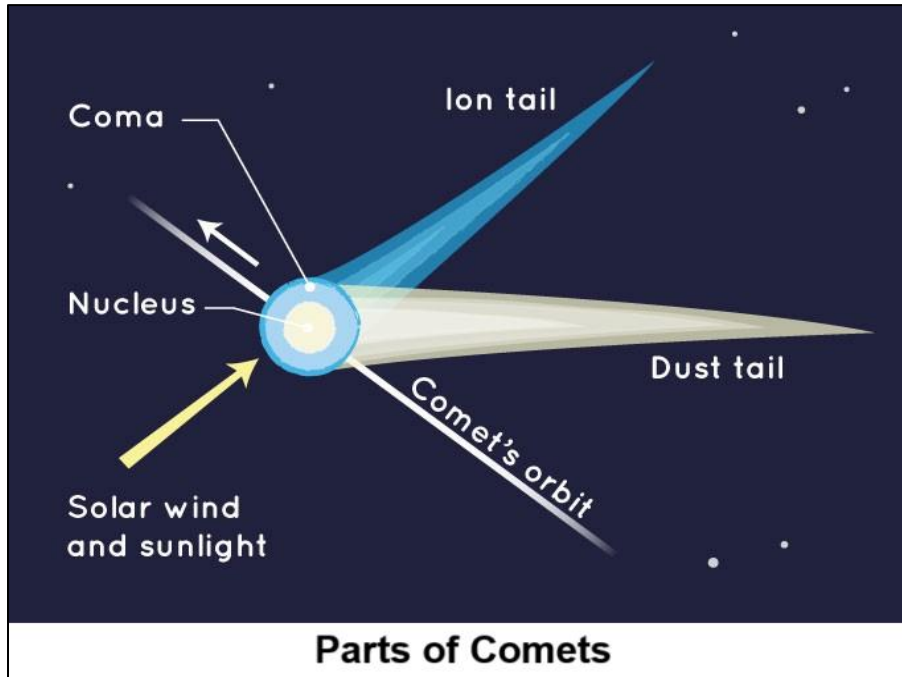


- ❖ The IRIS<sup>2</sup> constellation stands for Infrastructure for Resilience, Interconnectivity and Security by Satellite.
- ❖ It is a multi-orbit constellation of about 300 satellites.
- ❖ They will deliver resilient, secure and fast communications for EU governments, European companies and citizens.
- ❖ It will ensure uninterrupted access to secure governmental connectivity services and provide high-end commercial services.

## **Dark Comet**

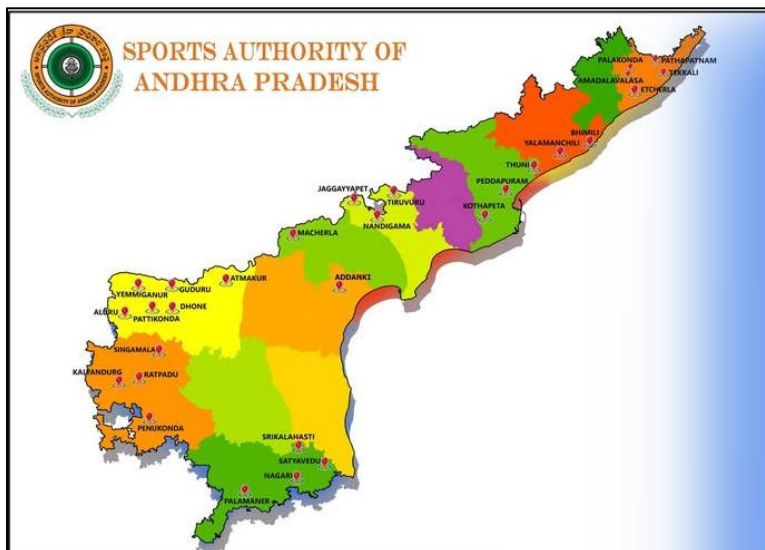
- ❖ The Dark Comets are celestial bodies which lack the glowing tails and resemble asteroids.
- ❖ In 2017, NASA discovered and later confirmed the first interstellar object to enter our Solar System.
- ❖ Dark comets are often small, just a few metres to a few hundred metres wide.
- ❖ They are categorised into “outer dark comets”, which have eccentric orbits and are larger, and “inner dark comets”.

- ❖ They follow elongated, elliptical paths that bring them close to the Sun before sweeping back out to the farthest reaches of the Solar System.



## STATES

### Kreeda App - first sports app



- ❖ The Sports Authority of Andhra Pradesh (SAAP) introduced 'Kreeda App', a first-of-its-kind mobile application in India.
- ❖ It is designed to modernise and streamline sports management across the state.





- ❖ The app aims to eliminate the malpractices in the issuance of sports quota certificates while providing a unified platform for managing comprehensive sports data.
- ❖ It ensures transparency in player registration, performance tracking, tournament applications, and equipment distribution.

