

November - 06

TNPSC BITS

- ❖ The contributions to the “Namma School, Namma Ooru Palli” (NSNOP) initiative have surpassed ₹1,000 crore, and the funds are being used to set up laboratories, smart classrooms, and other essential facilities to improve the quality of education in schools.
- ❖ A biography of agricultural scientist M.S. Swaminathan titled ‘The Man Who Fed India’, authored by Priyambada Jayakumar, was released in Chennai.
- ❖ Namitbir Singh Walia from, Punjab, has become an International Master (IM) in Chess after securing 4th place at the 3rd Annemasse International Masters Tournament in France.
- ❖ Indonesian tennis player Janice Tjen won her maiden by defeating Australia’s Kimberly Birrell WTA (Women’s Tennis Association) 250 Chennai Open 2025 title.
 - She is the first Indonesian woman in 23 years to win a WTA Tour title, after Angelique Widjaja’s triumph at the 2002 Bali Open.
- ❖ World Sandwich Day 2025 is celebrated on November 3 to honor John Montagu, who popularized the sandwich in the 18th century.

NATIONAL NEWS

5th MFC 2025



- ❖ The household enumeration phase of the National Marine Fisheries Census (MFC) 2025 was launched recently.



- ❖ It is fully-digitalised data collection of Indian fisheries, which is the first of its kind in the country.
- ❖ It is covering over 1.2 million fisher households across 4,000 marine fishing villages in nine coastal states and four union territories.

India's total installed electricity capacity

- ❖ As of September 30, 2025, India's installed power generation capacity has surpassed 500 GW level.
- ❖ It was 249 GW in 2014.
- ❖ Power generation from non-fossil fuel sources -- renewable energy, hydro, and nuclear -- stand at 256.09 GW.
- ❖ Fossil fuel-based sources were at 244.80 GW, about 49 per cent of the total.

India's total installed electricity capacity crosses 500 GW

- India has also achieved one of its major COP26 (Panchamirit goals) to have 50 % of installed electric power capacity from non-fossil fuel sources by 2030 five years ahead of the schedule.
- India's Present Energy Mix:
 1. Non-fossil fuels-51% (256 GW),
 2. Fossil fuels 49% (244 GW).
 3. Share of Renewables: Solar: 127 GW, Wind: 53 GW, Hydro: 47 GW.

Aadhaar Vision 2032 Framework

- ❖ The Unique Identification Authority of India (UIDAI) unveiled the Aadhaar Vision 2032 framework to strengthen future-proof digital identity.
- ❖ The framework leverages AI, blockchain, quantum computing, and advanced encryption technologies.

- ❖ It aims to provide a roadmap to redefine India's digital identity ecosystem and accelerate next-generation digital governance.



INTERNATIONAL NEWS

World Summit for Social Development



- ❖ The World Summit for Social Development was held in Doha, Qatar.
- ❖ India will be represented at the International Labour Organization (ILO) Ministerial Dialogue on the Global Coalition for Social Justice.

- ❖ A High-Level Round Table on strengthening the three pillars of social development will be held during the summit.
- ❖ An event on the National Career Service (NCS) Portal organized by the Ministry of Labour and Employment and the Indian Business and Professionals Council (IBPC).

Second Global Harmony Initiative



- ❖ Saudi Arabia's Ministry of Media kicked off the event, starting with 'India Week' as part of Riyadh Season.
- ❖ The initiative celebrates the cultural diversity of residents, highlighting their contributions and integration into society.
- ❖ Events include music, dance, food, art, and crafts, showcasing Indian culture and bridging ties between India and Saudi Arabia.
- ❖ The program will feature 14 cultures, promoting inclusivity, coexistence, and cross-cultural understanding under Saudi Vision 2030.

Fuel Conversion in China

- ❖ China successfully achieved the first-ever thorium-to-uranium fuel conversion in a Thorium Molten Salt Reactor (TMSR).
- ❖ The Shanghai Institute of Applied Physics (SIAP) confirmed valid experimental data from the reactor.
- ❖ This experiment proves that thorium can be used as nuclear fuel in molten-salt reactors.

- ❖ TMSRs use molten salt as a coolant, do not require water, and operate at atmospheric pressure.
- ❖ China has established complete and independent TMSR technology and industrial chains.
- ❖ A 100-megawatt demonstration reactor is planned to be operational by 2035.
- ❖ China's thorium reserves could supply energy for tens of thousands of years with minimal radioactive waste.



Asia-Pacific Economic Cooperation Summit 2025

- ❖ Leaders of 21 Asia-Pacific Economic Cooperation (APEC) nations concluded their annual summit in Gyeongju, South Korea.
- ❖ The summit followed a meeting between the leaders of the United States and China, who agreed to ease trade tensions.
- ❖ APEC leaders issued a joint statement emphasizing regional economic cooperation and acknowledging global trade challenges.
- ❖ Members reaffirmed the Putrajaya Vision 2040, promoting a trade environment that is free, open, fair, non-discriminatory, and predictable.
- ❖ The summit also addressed cooperation on artificial intelligence, demographic challenges, and cultural industries.

- ❖ APEC was established in 1989 and aims to promote free and open trade and investment.



ECONOMY NEWS

UPI Payments in Malaysia



- ❖ Indian travellers can use Unified Payments Interface (UPI) for payments in Malaysia.

- ❖ The expansion is through a partnership between NPCI International Payments Limited (NIPL) and Razorpay Curlec.
- ❖ Transactions are instant, secure, and seamless via UPI-enabled apps.
- ❖ The initiative was launched during the Global Fintech Fest (GFF) 2025.

Special Category Client on IIBX - SBI

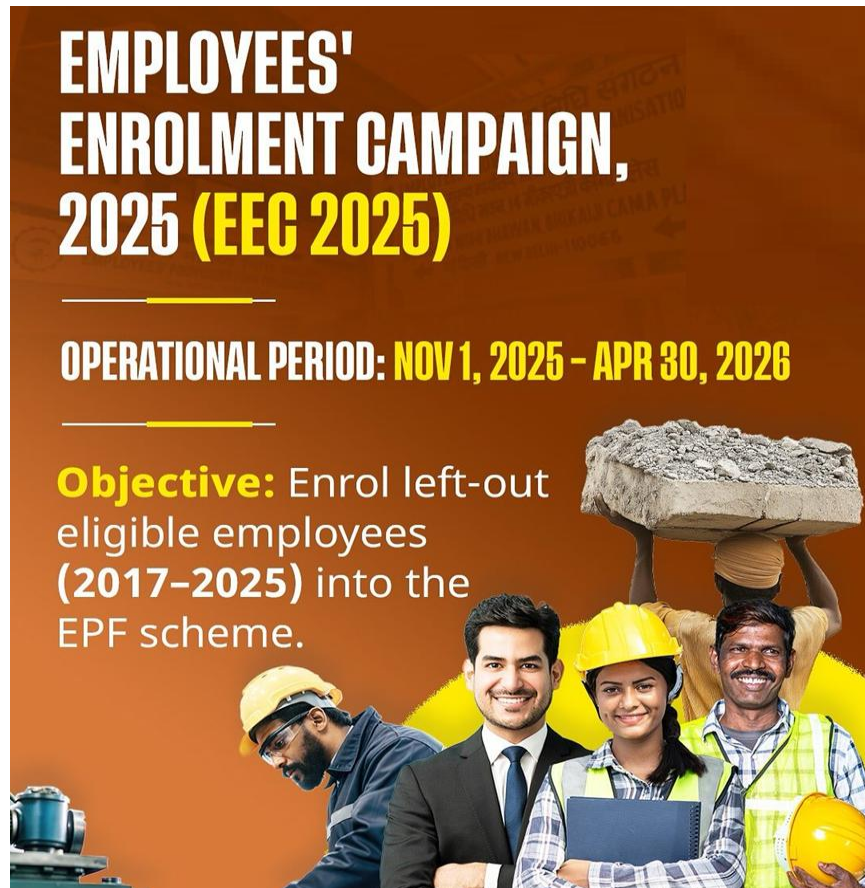
- ❖ State Bank of India executed its inaugural gold trade as a Special Category Client (SCC) on the India International Bullion Exchange (IIBX).
- ❖ SBI was the first bank to become a Trading-cum-Clearing (TCM) Member at IIBX in 2024.
- ❖ As a Special Category Client, SBI facilitates bullion transactions for jewellers, bullion dealers, and other stakeholders.
- ❖ The move aims to enhance efficiency, transparency, and accessibility in India's bullion import system.
- ❖ SBI's participation supports GIFT City as a global financial hub and aligns with government initiatives to modernize the bullion trade.



Employees' Enrolment Scheme 2025

- ❖ The Employees' Provident Fund Organisation (EPFO) launched the Employees' Enrolment Scheme 2025 on November 1, 2025.

- ❖ The scheme allows employers to enroll employees left out of Employees' Provident Fund (EPF) coverage between July 1, 2017, and October 31, 2025.
- ❖ The scheme will remain open for six months, ending on April 30, 2026.
- ❖ Employers must generate a Face Authentication-based Universal Account Number (UAN) for each employee through the UMANG App.



SCIENCE AND TECHNOLOGY NEWS

India's Heaviest Communication Satellite CMS-03

- ❖ ISRO successfully launched CMS-03, India's heaviest communication satellite, on November 2, 2025.
- ❖ CMS-03 weighs 4,410 kilograms and was placed into the intended geosynchronous transfer orbit from the Sriharikota spaceport in Andhra Pradesh.
- ❖ The satellite was launched aboard the LVM3-M5 rocket, also known as the 'Bahubali' rocket.
- ❖ It is a new-generation heavy-lift launch vehicle developed entirely in India.

- ❖ CMS-03 is a multi-band communication satellite designed to provide telecommunications, television broadcasting, and internet services across India and the surrounding oceanic region.



Russia's Poseidon Drone

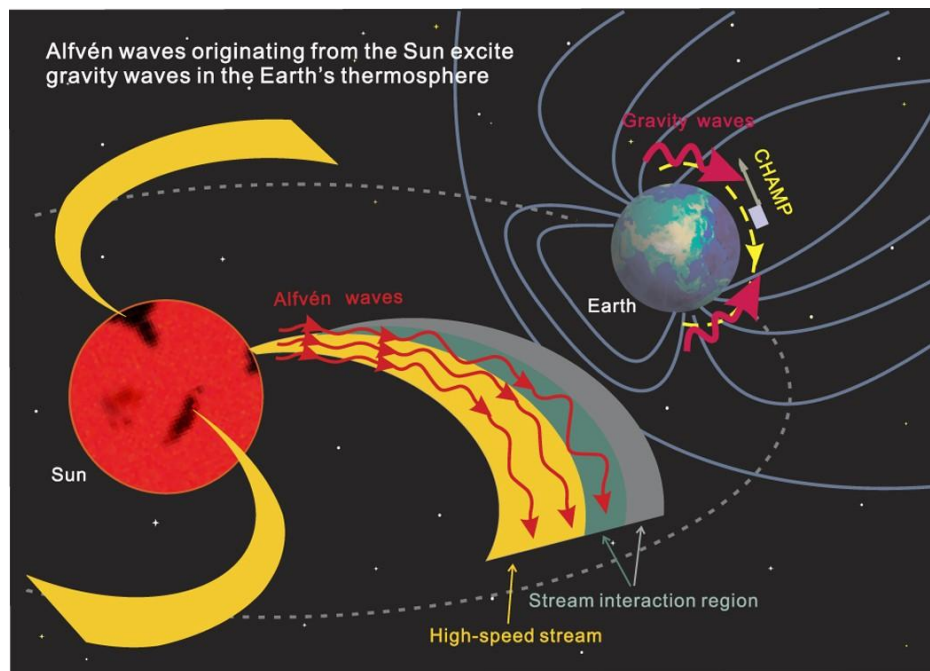


- ❖ Russia has launched its newest nuclear submarine 'Khabarovsk'.

- ❖ It is designed to carry the underwater nuclear drone 'Poseidon', also known as 'doomsday missile'.
- ❖ This missile is capable of intercontinental travel and can "wipe out" coastal nations immense destruction.

Alfven Waves

- ❖ Scientists have directly detected Alfven waves in the Sun's corona for the first time.
- ❖ These magnetic waves may account for at least half of the energy needed to heat the Sun's outer atmosphere.
- ❖ The Sun's corona reaches 2 million degrees Fahrenheit (1.1 million degrees Celsius), far hotter than its surface at 10,000 degrees Fahrenheit (5,500 degrees Celsius).
- ❖ The discovery was made using the Daniel K. Inouye Solar Telescope (DKIST) in Hawaii.
- ❖ Red and blue Doppler shifts in the corona confirmed the presence of Alfven waves.



City-Killer Asteroid 2024 YR4

- ❖ Asteroid 2024 YR4 may collide with the Moon in 2032.
- ❖ The asteroid measures approximately 6m across, according to observations from the James Webb Space Telescope (JWST).

- ❖ NASA considers using nuclear disruption because traditional kinetic deflection methods are insufficient for this asteroid.
- ❖ Mission windows for a nuclear intervention are being evaluated between late 2029 and late 2031.
- ❖ A nuclear standoff detonation would vaporize a layer of the asteroid's surface, changing its trajectory without direct contact.
- ❖ A lunar impact could temporarily increase micrometeoroid flux in low Earth orbit, which may threaten satellites and human space missions.

The potential threat of Asteroid 2024 YR4



The "city-killer" asteroid, estimated to be between 40 to 90 meters wide, has raised concerns, especially due to its potential threat to India's densely populated urban cities. NASA's projected impact zone includes the **eastern Pacific Ocean, northern South America, the Atlantic Ocean, Africa, the Arabian Sea, and South Asia**, placing densely populated countries like India, Nepal, and Bangladesh at a higher risk.

STATES' NEWS

Uttarakhand Silver Jubilee

- ❖ The President of India addressed the Uttarakhand Legislative Assembly on the Silver Jubilee of the formation of the Uttarakhand state.
- ❖ Uttarakhand was formed on November 9, 2000, as the 27th state of India.
- ❖ It was separated from the northern hilly districts of Uttar Pradesh.

- ❖ The state was initially named Uttaranchal and was officially renamed Uttarakhand in January 2007.



Garbage Dumping Festival



- ❖ The Greater Bengaluru Authority (GBA) launched the 'Garbage Dumping Festival' campaign.
- ❖ Civic marshals deliberately dumped garbage outside the houses of habitual litterers to raise awareness and promote cleaner neighbourhoods.

- ❖ The campaign began in Banashankari and targeted 218 households, collecting fines worth Rs 2.8 lakh.
- ❖ The Bengaluru Solid Waste Management Limited (BSWML) plans to install 65 waste kiosks across Bengaluru to facilitate free segregated waste disposal and reduce garbage black spots.

Silicon Carbide Semiconductor Plant In Odisha

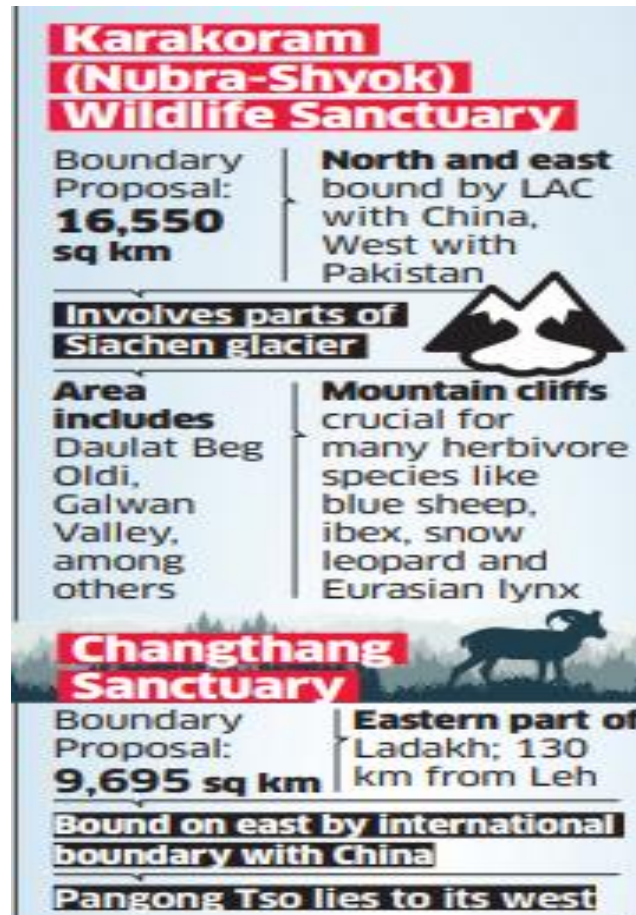
- ❖ Odisha Chief Minister laid the foundation stone for India's first silicon carbide (SiC) semiconductor plant in Bhubaneswar.
- ❖ The facility, approved under the India Semiconductor Mission, involves an investment of ₹2,067 crore and will be operational by 2027-28.
- ❖ The plant will support critical sectors such as electric vehicles, railways, data centres, renewable energy, and industrial automotive systems.



Expansion of Sanctuaries in Ladakh

- ❖ The Ladakh State Wildlife Board has proposed expanding the Karakoram Wildlife Sanctuary to 16,550 square kilometers.
- ❖ The Changthang Wildlife Sanctuary is proposed to expand to 9,695 square kilometers.
- ❖ The original notifications in 1987 recorded nearly 5,000 square kilometers for Karakoram and 4,000 square kilometers for Changthang.

- ❖ The Wildlife Institute of India (WII) identified high conservation value areas in both sanctuaries.
- ❖ Some inhabited areas will be excluded, including 1,742 square kilometers in Karakoram and 164 square kilometers in Changthang.
- ❖ The revisions aim to allow local residents to develop small-scale tourism infrastructure and improve essential services.



SPORTS NEWS

Asian Youth Games 2025

- ❖ India won a record 48 medals at the 2025 Asian Youth Games in Manama, Bahrain, including 13 gold, 18 silver, and 17 bronze.
- ❖ The girls' kabaddi team won India's first gold at the Games by defeating Iran.
- ❖ Priteesmita Bhoi set a world youth record in the girls' 44kg weightlifting clean and jerk to win individual gold.
- ❖ Khushi won the first medal for India with bronze in girls' kurash.

- ❖ Ranjana Yadav won India's first athletics medal with silver in the 5000-meter race walk.
- ❖ The medal tally also qualified Indian athletes for the 2026 Youth Olympics in Dakar, Senegal.



RANK	COUNTRY	GOLD	SILVER	BRONZE	TOT
1	 CHN	63	49	35	147
2	 UZB	37	16	28	81
3	 KAZ	24	29	40	93
4	 IRI	22	18	36	76
5	 THA	15	15	18	48
6	 IND	13	18	17	48

IMPORTANT DAYS

World Jellyfish Day 2025 – November 3



- ❖ The day aims to celebrate one of the ocean's oldest and most fascinating creatures.
- ❖ Jellyfish have existed for over 500 million years, predating even the dinosaurs.



- ❖ They lack a brain, heart, and bones, yet possess nerve nets that help them sense light and movement.
- ❖ Some species, like *Turritopsis dohrnii*, are called “immortal jellyfish” because they can revert to a youthful stage and live indefinitely.
- ❖ Many jellyfish are bioluminescent, producing light used for survival and studied in genetic research.

