



November - 30

TNPSC BITS

- ❖ Rohit Sharma has been named ambassador for the ICC Men's T20 World Cup 2026 to be held in India and Sri Lanka.
- ❖ Viola Fletcher oldest survivor of the 1921 Tulsa Race Massacre, recently died in Tulsa, Oklahoma, USA.
- ❖ Researchers from the Central Marine Fisheries Research Institute (CMFRI), Kochi, discovered a new deep-sea squid species in the Arabian Sea, named *Taningia silasii* after marine biologist E. G. Silas.
- ❖ The Chief Election Commissioner Gyanesh Kumar will serve as the Chair of the International Institute for Democracy and Electoral Assistance (International IDEA) in 2026.
- ❖ The Geological Survey of India (GSI), as part of its 175th Foundation Year celebrations, has organized International Seminar on "Unearthing the Past, Shaping the Future: 175 Years of GSI" at the Rajasthan International Centre, Jaipur.
- ❖ Ahmedabad is officially confirmed as the host city for the 2030 Commonwealth Games.
- ❖ Uzbek Chess Grand Master Javokhir Sindarov became the youngest FIDE World Cup Champion, defeating China's Wei Yi in tiebreaks in Goa.
- ❖ Indian athlete Giovanna de Sequeira won bronze at the World Professional Jiu-Jitsu Championship in Abu Dhabi.
- ❖ China has completed the building of Jiangmen Underground Neutrino Observatory (JUNO) in Kaiping, Guangdong Province.
- ❖ India showcased its rich tribal arts and handicrafts at the 44th India International Trade Fair (IITF) 2025 in New Delhi.
 - Exhibited works included tasar silk weaving, Paitker scroll paintings, applique and mirror-work textiles, and Bharewa statues.
- ❖ World Sustainable Transport Day was observed on 26 November, to highlight the importance of safe, affordable, accessible and sustainable transport for economic growth, social well-being and lower emissions.
- ❖ National Newborn Week was observed from 15th through 21st in November to reinforces the importance of newborn health as a key priority area.

- ❖ Airports Authority of India is observed "Aviation Safety Awareness Week - 2025" from 24 Nov. 2025 to 28 Nov. 2025 to strengthening aviation safety across all airports.

TAMIL NADU NEWS

Tamil Nadu Technical Textiles Mission



- ❖ The Tamil Nadu Technical Textiles Mission has begun with a five-year plan and a budget of ₹15 crore.
- ❖ Entrepreneurs can get guidance from approved consultants, with reimbursement of ₹50 lakh or 50 % of the consultation fee.
- ❖ Several schemes from the Ministry of Micro, Small and Medium Enterprises (MSME) and the Ministry of Textiles support investments in technical textiles.
- ❖ The State will organise a technical textile expo in Coimbatore once every two years and will launch a trade facilitation portal to link manufacturers and buyers.
- ❖ Subsidy will be given to three or four companies for research and development in technical textiles.



- ❖ The Department plans to facilitate the setting up of 24 industrial units in technical textiles with a total investment of ₹480 crore.

NATIONAL NEWS

India Internet Governance Forum (IIGF) 2025

- ❖ The India Internet Governance Forum (IIGF) was organised by the Ministry of Electronics and Information Technology (MeitY) and the National Internet Exchange of India (NIXI) in New Delhi.
- ❖ It aims to improve internet governance for an inclusive and sustainable digital future.
- ❖ The theme of the event is “Advancing Internet Governance for an Inclusive and Sustainable Viksit Bharat”.



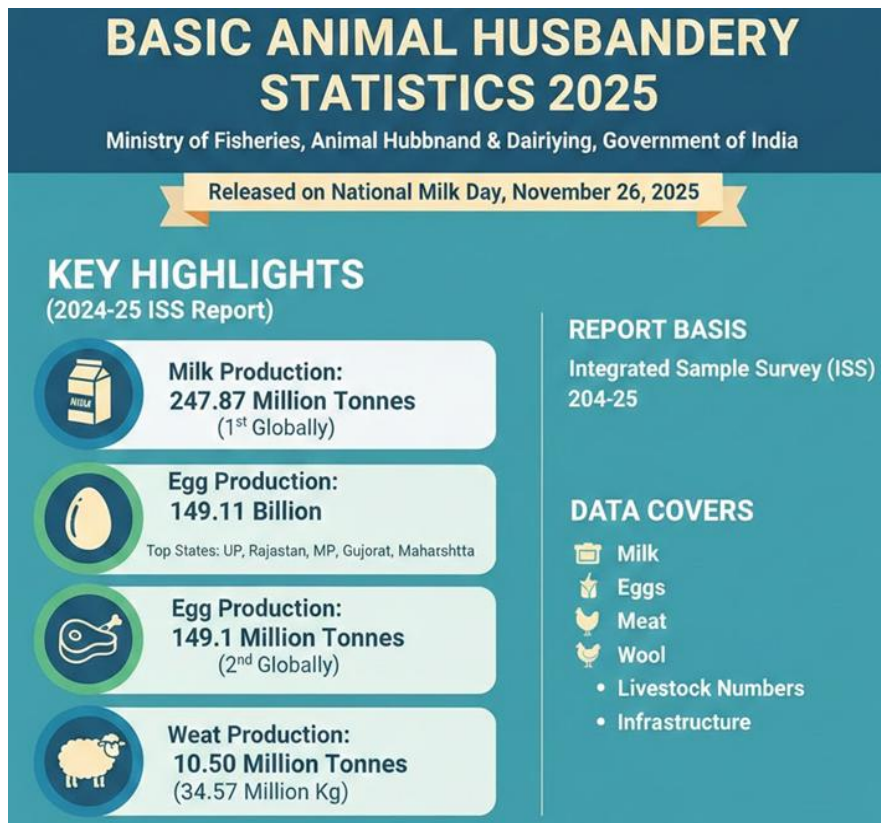
SAESI facility



- ❖ Prime Minister inaugurated the Safran Aircraft Engine Services India (SAESI) facility in Hyderabad, Telangana.
- ❖ The facility is dedicated to Leading Edge Aviation Propulsion (LEAP) engines.

- ❖ These engines power Airbus A320neo and Boeing 737 MAX aircraft.
- ❖ SAESI is one of the largest global aircraft engine Maintenance, Repair, and Overhaul (MRO) facilities and the first global engine Original Equipment Manufacturer (OEM) operation in India.

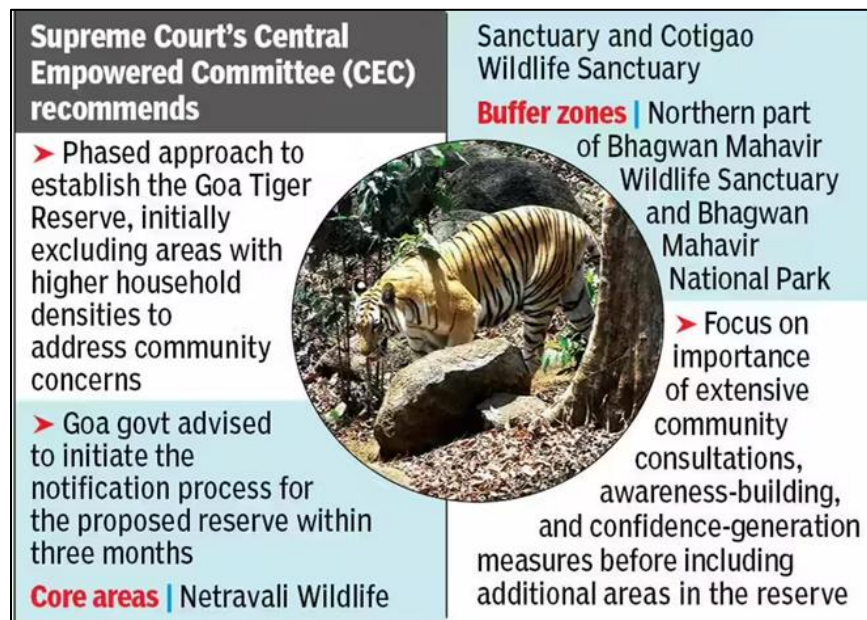
Basic Animal Husbandry Statistics 2025



- ❖ The Ministry of Fisheries, Animal Husbandry & Dairying released the Basic Animal Husbandry Statistics (BAHS) 2025 on National Milk Day, November 26, 2025.
- ❖ The report is based on the Integrated Sample Survey (ISS) 2024–25 and provides data on milk, eggs, meat, wool, livestock numbers, and related infrastructure.
- ❖ India produced 247.87 million tonnes of milk, ranking 1st globally.
- ❖ Also, the per capita availability of milk in India has increased from 319 gram (gm) per day (in 2014-15) to 485 gm per day (in 2024-25).
- ❖ The top milk-producing states are Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat, and Maharashtra.
- ❖ Egg production reached 149.11 billion, ranking 2nd globally.

- ❖ Top 5 Egg Producing States: Andhra Pradesh with the share of 18.37%, followed by Tamil Nadu (15.63%), Telangana (12.98%), West Bengal (10.72%), and Karnataka (6.67%).
- ❖ Meat production was 10.50 million tonnes, ranking 4th globally.
- ❖ Top 5 Meat Producing States: West Bengal with the share of 12.46% followed by UP (12.20%), Maharashtra (11.57%), AP (10.84%) and Telangana (10.49%).
- ❖ Wool production was 34.57 million kg.
- ❖ Top 5 Wool Producing States: Rajasthan with the share of 47.85%, followed by Jammu & Kashmir (22.88%), Gujarat (6.22%), Maharashtra (4.75%) and Himachal Pradesh (4.30%).
- ❖ The statistics support policy-making, research, and sustainable growth in India's livestock and dairy sector.

Goa Tiger Reserve



- ❖ A Supreme Court panel has recommended the phased creation of the Goa Tiger Reserve.
- ❖ In the first phase, 468.6 sq. km, including Netravali and Cotigao Wildlife Sanctuaries, will be notified.
- ❖ In the second phase, 208 sq. km, including Mhadei Wildlife Sanctuary, may be considered later.
- ❖ These areas will be contiguous with Karnataka's Kali Tiger Reserve, forming an integrated landscape of 1,814 sq. km.

- ❖ Core zones will be strictly protected, while buffer zones will allow limited human activity, ensuring funds and support for tiger conservation.

SCIENCE AND TECHNOLOGY NEWS

Vikram-I Rocket

- ❖ Vikram-I is India's first privately developed commercial orbital rocket, built by Skyroot Aerospace.
- ❖ The Prime Minister unveiled the rocket and inaugurated Skyroot's Infinity Campus in Hyderabad, a facility that can produce one orbital rocket per month.
- ❖ Vikram-I is designed to launch small satellites into low Earth orbit, marking Skyroot's shift from sub-orbital to orbital launch capability.
- ❖ Skyroot earlier launched Vikram-S, India's first private sub-orbital rocket, in 2022.



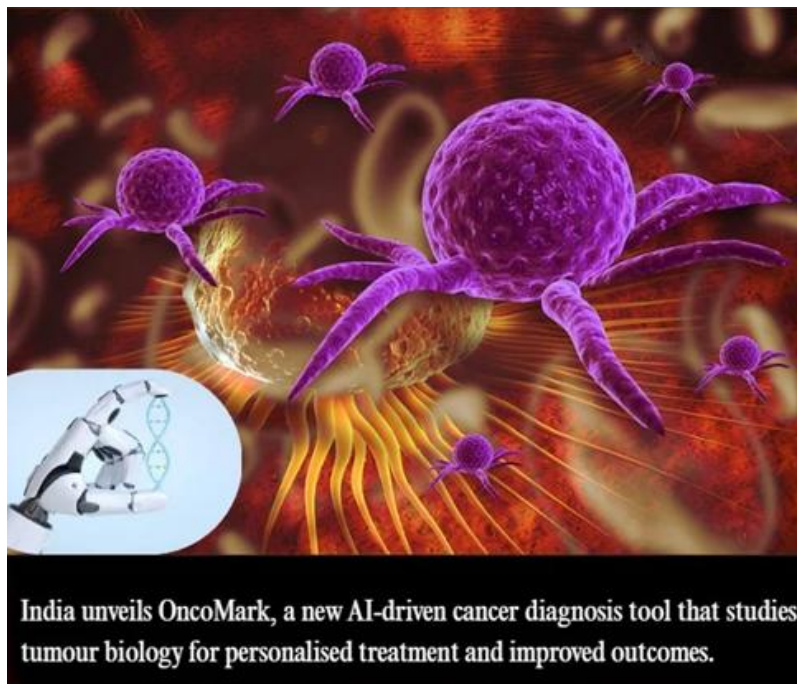
New Names for Martian Landforms

- ❖ A 3.5-billion-year-old crater on Mars has been named after Indian geologist M.S. Krishnan.
- ❖ The International Astronomical Union (IAU) officially approved the name.

- ❖ Five Kerala-based names—Valiamala, Thumba, Bekal, Varkala, and Periyar—are now assigned to nearby craters and a Martian valley.
- ❖ The crater is located in Xanthe Terra, a region with evidence of ancient glaciers and rivers.
- ❖ Large craters are named after deceased scientists; small craters are named after towns or villages.
- ❖ This is the first time Kerala place-names have been used for features on Mars.



AI Framework for Cancer Therapy



- ❖ Indian researchers from the S N Bose National Centre for Basic Sciences and Ashoka University developed an AI framework named OncoMark.

- ❖ OncoMark analyses the cancer at the molecular level, focusing on the biological programs (hallmarks) that drive tumour growth.
- ❖ The system studied 3.1 million single cells from 14 cancer types and created pseudo-biopsies to map tumour behaviour.
- ❖ OncoMark achieved over 99% internal accuracy and 96% accuracy across independent global datasets.
- ❖ It helps clinicians identify aggressive tumours and guide personalised, targeted therapies, advancing precision medicine in India.

Quantum Fabrication Hubs

- ❖ India will set up four advanced quantum fabrication hubs under the National Quantum Mission at IIT Delhi, IIT Bombay, IIT Kanpur, and IISc Bengaluru.
- ❖ These hubs will focus on quantum sensing, quantum computing, and quantum materials, supporting secure and scalable quantum devices.
- ❖ IIT Bombay and IIT Kanpur will lead quantum sensing and metrology.
- ❖ IISc Bengaluru and IIT Bombay will lead advanced quantum computing fabrication.
- ❖ The initiative will promote innovation, startups, and the training of quantum hardware specialists across India.
- ❖ The program strengthens India's technological sovereignty and deep-tech capabilities in critical sectors like superconductivity, photonics, healthcare, and space.



ENVIRONMENT NEWS

Amur Falcons Migration

- ❖ Amur falcons migrate 5,000 to 6,000 km nonstop from Northeast India to Africa every autumn.

- ❖ In November 2025, the Wildlife Institute of India (WII) tracked three falcons, Apapang, Alang, and Ahu, using lightweight transmitters.
- ❖ Apapang flew 6,100 km in 6 days 8 hours to Tanzania, Alang covered 5,600 km in 6 days 14 hours to Kenya, and Ahu travelled 5,100 km in 5 days to Somalia.
- ❖ The tracking project began after mass hunting in Nagaland in 2012, and India signed the Raptors MoU under the Convention on Migratory Species in 2016.
- ❖ Falcons spend 2 to 3 weeks in Northeast India, feeding on termite swarms to build fat reserves before crossing the Arabian Sea.

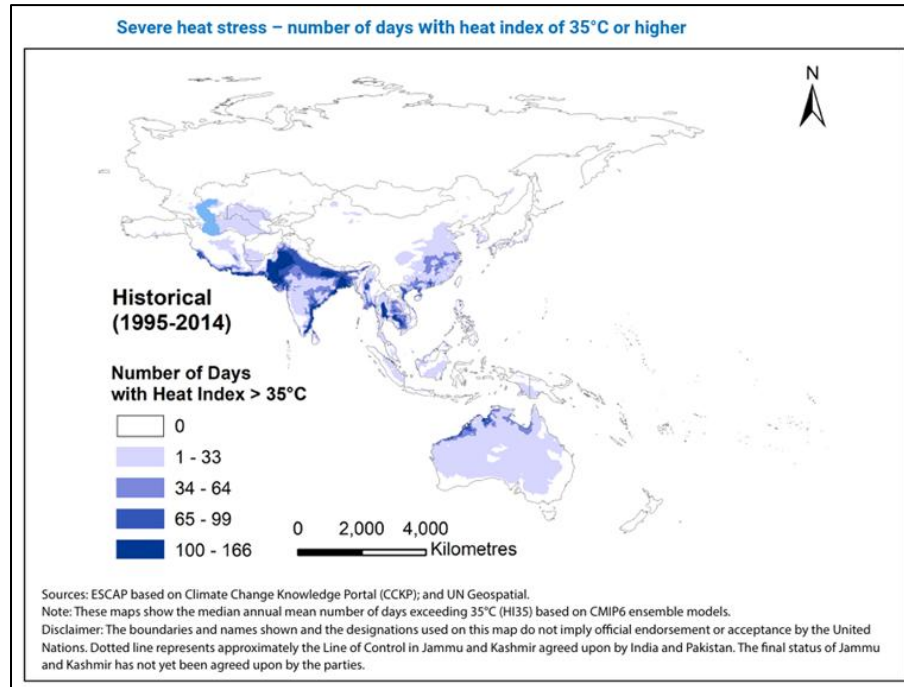


REPORTS AND INDICES

Asia-Pacific Disaster Report 2025

- ❖ The report was released by the United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP).
- ❖ Asian megacities like Delhi, Karachi, Dhaka, Manila, Shanghai, and Seoul could face 2-7°C extra heat due to the urban heat island effect.
- ❖ South Asia may experience over 300 days a year with a heat index above 35°C, and over 200 days above 41°C in some regions.
- ❖ Extreme heat worsens health risks, pollution, wildfires, and droughts, and affects millions of outdoor workers.

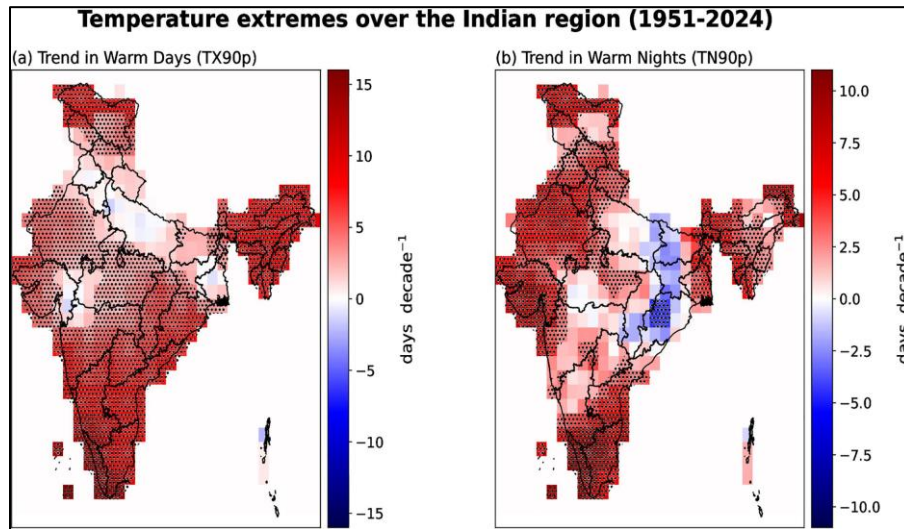
- ❖ Economic losses and working-hour reductions are projected to rise sharply if heat adaptation is insufficient.



Assessment Report 6

- ❖ The post-IPCC AR6 (Assessment Report 6) update is a peer-reviewed scientific study.
- ❖ It provides the latest assessment of India's observed and projected climate changes.
- ❖ It builds on the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6) by using new observational data and advanced climate models specific to India.
- ❖ The report notes that India's average temperature increased by nearly 0.9°C during 2015–2024 compared to the period 1901–1930.
- ❖ The hottest day of the year in Western and Northeast India has warmed by 1.5–2°C since the 1950s, leading to more frequent and intense heatwaves.
- ❖ Southwest monsoon rainfall has become erratic, with a decline in the Indo-Gangetic plains and the Northeast.
- ❖ Extreme rainfall events have intensified in central India and coastal Gujarat.
- ❖ The tropical Indian Ocean is warming at 0.12°C per decade.
- ❖ This warming is causing marine heatwaves to increase from 20 days per year in recent decades to nearly 200 days by 2050, threatening coral reefs and fisheries.

- ❖ The Hindu Kush Himalaya glaciers, known as Asia's "water towers," are melting rapidly.
- ❖ Glacier volume is projected to reduce by 30–50% by 2100 under 1.5–2°C of global warming.
- ❖ Arabian Sea tropical cyclones have become stronger, with maximum cyclone intensity increasing by 40% in recent decades.



IMPORTANT DAYS

International Jaguar Day 2025 - November 29

NOVEMBER 29

INTERNATIONAL JAGUAR DAY

JAGUARS- the iconic cat of the Americas and health of our planet.
November 29, International Jaguar Day- a day to recognize the importance of protecting and conserving the Jaguar and raise awareness about how they impact the wider environment

Jaguar is an umbrella species for biodiversity conservation and icon for sustainable development.



- ❖ The day is to create awareness about jaguars and their conservation.

- ❖ The day aims to highlight the ecological importance of jaguars and support efforts to protect them.
- ❖ It was first celebrated in 2018 through global conservation work led by Panthera (a wild cat conservation organisation).
- ❖ The observance marks the adoption of the Jaguar Corridor Initiative, which protects jaguar movement routes across 18 countries.
- ❖ Jaguars (*Panthera onca*) are the largest big cats in the Americas and help maintain ecosystem balance.
- ❖ The jaguar is listed as Near Threatened in the International Union for Conservation of Nature (IUCN) Red List.

MISCELLANEOUS NEWS

Sirpur Archaeological Site



- ❖ Sirpur is a 5th–12th century multi-religious archaeological city in the Mahasamund district, Chhattisgarh.
- ❖ It is located on the banks of the Mahanadi River, near Raipur.
- ❖ Sirpur was the capital of Dakshina Kosala under the Panduvanshi and Somavamshi kings (6th–8th century).
- ❖ Excavations have revealed 22 Shiva temples, 5 Vishnu temples, 10 Buddhist viharas, and 3 Jain viharas.
- ❖ Key monuments include the 7th-century Lakshmana Temple, Surang Tila temple complex, 8th-century Teevardev Buddha Vihara, and Baleshwar Temple.
- ❖ Sirpur's architecture blends Shaiva, Vaishnava, Buddhist, and Jain traditions.



- ❖ The site includes palaces, marketplaces, stupas, monasteries, meditation cells, water systems, and a 6th-century market complex.
- ❖ The Chhattisgarh government is being prepared for a UNESCO World Heritage nomination.

