



## DAILY DOSE

### CURRENT AFFAIRS – 01/10/2025

#### 1. False Smut Disease:

**Recent** - According to reports, the paddy crop, which is at the maturing and harvest stage, has been infested with false smut disease, causing widespread damage across Punjab.

False smut (haldi rog) is an important fungal disease of rice (paddy).

It is caused by the fungus *Ustilaginoidea virens*.

It is also known as Lakshmi disease or Oothupathi disease of rice.

#### 2. Interstellar Mapping and Acceleration Probe:

**Recent** - NASA launched the Interstellar Mapping and Acceleration Probe (IMAP) to show how solar particles are energised and shield us.

Its goal is to map the heliosphere's boundary, trace energetic particles, and improve space weather forecasting.

The heliosphere is a huge bubble created by the Sun's wind that encapsulates our entire solar system.

IMAP will support real-time observations of the solar wind and energetic particles, which can produce hazardous conditions in the space environment near Earth.

It is situated at the first Earth-Sun Lagrange point (L1), at around one million miles from Earth toward the Sun.

#### 3. Leyte Island:

**Recent** - A 6.7 magnitude earthquake has hit Leyte Island in the Philippines recently.

It is a large island in the Visayas group of islands in the Philippines.

It is the eighth-largest island in the Philippines and the sixth most populated.

#### **4. Wassenaar Arrangement:**

**Recent** - The Wassenaar Arrangement faces challenges in adapting to cloud technology, requiring updates to control lists and enforcement mechanisms.

It is a multilateral “export control regime” for conventional arms and dual-use goods and technologies.

Member countries: 42 members.

India joined the Wassenaar Arrangement in 2017 and incorporated its lists into its Special Chemicals, Organisms, Materials, Equipment, and Technologies framework.

Headquarters: Vienna, Austria.

#### **5. Lecanemab Drug:**

**Recent** - Australia approved Lecanemab drug for early Alzheimer's diseases.

It is a monoclonal antibody drug to treat early stages of Alzheimer's.

It is designed to slow early Alzheimer's progression by targeting amyloid proteins in the brain.

It was developed to tackle the causes of Alzheimer's disease rather than only relieving the symptoms.



## DAILY DOSE

### CURRENT AFFAIRS – 02/10/2025

#### 1. Bathukamma Festival:

**Recent** - in Telangana, the celebrations of Bathukamma Festival, organised by the state Government, have set two new Guinness World Records.

Bathukamma is a floral festival celebrated by the women folk of Telangana.

Every year this festival is celebrated usually in September–October of the Gregorian calendar.

It is celebrated for nine days during Durga Navratri and the 9-day festivities will culminate on "Saddula Bathukamma" or "Pedda Bathukamma" festival.

Bathukamma is followed by Boddemma, which is a 7-day festival.

It has been declared as the Telangana State Festival.

#### 2. Biomedical Research Career Programme Phase III:

**Recent** - the Union Cabinet has approved the continuation of the Biomedical Research Career Programme (BRCP), Phase-III.

It will nurture top-tier scientific talent for cutting-edge biomedical research and promote interdisciplinary research for translational innovation.

It is being implemented in partnership between the Department of Biotechnology (DBT) and the Wellcome Trust (WT), United Kingdom and the SPV, India Alliance

Time Period: Between 2025-26 and 2030-31 with an additional six-year support period until 2037-38.

**Funding:** It will have a total outlay of ₹1,500 crore, of which DBT will contribute ₹1,000 crore and the Wellcome Trust ₹500 crore.

### **3. Mission for Aatmanirbharta in Pulses:**

**Recent** - the Union Cabinet has approved the Mission for Aatmanirbharta in Pulses.

It is aimed at boosting domestic production and achieving self-sufficiency (Aatmanirbharta) in pulses.

**Time Period:** The Mission will be implemented over a six-year period, from 2025-26 to 2030-31.

### **4. Payments Regulatory Board:**

**Recent** - the Reserve Bank of India (RBI) constituted a six-member Payments Regulatory Board (PRB).

It derives its authority from the Payment and Settlement Systems Act, 2007.

It replaces the Board for Regulation and Supervision of Payment and Settlement Systems (BPSS), a committee of the RBI's Central Board.

**Composition of Payments Regulatory Board**

Ex officio Chairperson: RBI Governor, Ex officio members: Deputy Governor and the Executive Director in charge of Payment and Settlement Systems, Government nominees: Central government nominates 3 members to the board.

The principal legal adviser of the RBI is a permanent invitee to the meetings of the board.



## DAILY DOSE

### CURRENT AFFAIRS – 03/10/2025

#### 1. Anusandhan National Research Foundation (ANRF):

**Recent** - launched a tool called SARAL (Simplified and Automated Research Amplification and Learning) to make scientific research more accessible and understandable.

Established under: ANRF Act, 2023, functioning under the Department of Science & Technology (DST).

Subsumed body: The Science and Engineering Research Board (SERB) has been merged into ANRF.

Core objective: To seed, grow, and promote R&D, and foster a research and innovation culture across universities, colleges, research institutions, and R&D labs in India.

#### 2. Thumri Music:

**Recent** - Thumri lost a towering voice with the **demise** of Pandit Chhannulal Mishra (1936–2025), Padma Vibhushan awardee and one of the last great exponents of the Purab Ang of Banaras Gharana.

Thumri is a semi-classical vocal form of Hindustani music, often called the “lyric of Indian classical music”.

It originated in Eastern Uttar Pradesh (mainly Lucknow and Benares) during the 18th century CE, developed by Sadiq Ali Shah.

Themes: Primarily about love, separation, and devotion, often centered on Radha-Krishna episodes.

**Language:** Usually sung in Braj Bhasha, Awadhi, and Hindi dialects, with touches of Urdu and Sanskrit.

### **3. Sir Creek Dispute:**

**Recent** - Defence Minister Rajnath Singh warned Pakistan against any aggression in the Sir Creek region, stating that India would give a “resounding and decisive response” that could alter “history and geography”.

Sir Creek is a 96 km long tidal estuary located in the marshy Rann of Kutch region, separating Gujarat (India) from Sindh (Pakistan).

It flows into the Arabian Sea and is a strategically sensitive zone due to its proximity to the international boundary.

The area is significant for security, fishing rights, oil and gas exploration, and Exclusive Economic Zone (EEZ) determination.

### **4. Exercise Drone Kavach:**

**Recent** - The Spear Corps under Eastern Command of the Indian Army recently conducted Exercise 'Drone Kavach' in the forward areas of Eastern Arunachal Pradesh.

It was conducted by the Indian Army's Spear Corps, operating under the Eastern Command,

The four-day exercise was conducted in the forward areas of Eastern Arunachal Pradesh.

### **5. Ichamati River:**

**Recent** - As the Durga Puja immersions commenced on the Ichamati river, a heightened security presence was initiated on the India-Bangladesh border.

It is a trans-boundary river which flows through India and Bangladesh.

It also forms part of the boundary between the two countries.

It is one of the bifurcations of the Mathabhanga River (a distributary of the Padma) and originates at Mahjdia village in the Nadia district of West Bengal.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 04/10/2025

#### 1. Mar Del Plata Canyon:

**Recent** - A groundbreaking expedition to Argentina's Mar del Plata Canyon uncovered over 40 potential new deep-sea species, including glass squids and pink lobsters.

It is located at the continental margin off the coast of Buenos Aires Province, Argentina.

It lies about 250-300 km offshore from the city of Mar del Plata.

It is one of Argentina's largest submarine canyons.

#### 2. INS Sutlej:

**Recent** - arrived at Port Louis to undertake the 18th Joint Hydrographic Survey at Mauritius.

It is a specialised hydrographic survey vessel of the Indian Navy.

It was built by the Goa Shipyard Limited and commissioned into the Indian Navy in 1993.

It is currently based at Kochi under the Southern Naval Command.

#### 3. Clean Slate Doctrine under the Insolvency and Bankruptcy Code (IBC):

**Recent** - The Delhi High Court recently confirmed the “clean slate” doctrine under the Insolvency and Bankruptcy Code (IBC) by holding that a successful resolution applicant cannot be burdened with the criminal liabilities of a corporate debtor's past management.

The Clean Slate Doctrine is a key legal principle embedded in the Insolvency and Bankruptcy Code, 2016 (“IBC”), which plays a pivotal role in the corporate insolvency process in India.

The doctrine suggests that once a company successfully undergoes the insolvency resolution process and is taken over by a new buyer, the new owner should not be held accountable for any of the company’s pre-existing debts, penalties, or liabilities.

#### **4. Urban Flood Risk Management Programme:**

**Recent** - a high-level committee headed by the Union Home Minister approved the Urban Flood Risk Management Programme (UFRMP) Phase-2.

The programme will complement the states in mitigating the risk of urban flooding in the cities through uniform structural and non-structural intervention measures.

Cities Involved (11 cities) -- Bhopal, Bhubaneshwar, Guwahati, Jaipur, Kanpur, Patna, Raipur, Trivandrum, Vishakhapatnam, Indore and Lucknow.

#### **5. Cassini Spacecraft:**

**Recent** - A fresh look at data collected by NASA’s Cassini spacecraft has uncovered more evidence that Saturn’s moon Enceladus may be able to support life.

It is a joint project of NASA, the European Space Agency and the Italian space agency (ASI).

Cassini was a sophisticated robotic spacecraft sent to study Saturn and its complex system of rings and moons in unprecedented detail.

It was launched on October 15, 1997. It was one of the largest interplanetary spacecraft.

The mission consisted of NASA’s Cassini orbiter, which was the first space probe to orbit Saturn, and the ESA’s Huygens probe, which landed on Titan, Saturn’s largest moon.



## DAILY DOSE

### CURRENT AFFAIRS – 06/10/2025

#### 1. Manjeera River:

**Recent** - In a dramatic rescue operation near Edupayala temple in Medak, two youths from Kukatpally were saved after being swept away by the swollen Manjeera river.

The Manjeera also spelled Manjiira is a tributary of the river Godavari.

It passes through the states of Maharashtra, Karnataka and Telangana.

It originates in the Balaghat range of hills near Ahmednagar District, Maharashtra, at an altitude of 823 metres (2,700 ft).

Ultimately, it drains into Godavari River at Basara near Nizamabad, Telangana.

Some of its notable tributaries are Haldi (Haridra), Lendi, Nalla, Manyad, Terna, Tawarja, Gharni, etc.

Key Projects - Singur Dam/Singur Reservoir, Nizam Sagar Project.

#### 2. PM-SETU Scheme:

**Recent** - During the Kaushal Deekshant Samaroh which is being held at Vigyan Bhawan in New Delhi, the Prime Minister launched the Pradhan Mantri Skilling and Employability Transformation through Upgraded ITIs- PM – SETU.

Pradhan Mantri Skilling and Employability Transformation through Upgraded ITIs (PM-SETU) scheme is a centrally sponsored scheme with an investment of Rs 60,000 crore.

The scheme aims to transform 1,000 Government ITIs across India into modern, industry-aligned training institutions.

PM-SETU will follow a hub-and-spoke model, with 200 hub ITIs linked to 800 spoke ITIs.

### **3. Ortolan Bunting:**

**Recent** - The rare European bird, the Ortolan Bunting, with just a single recorded sighting in Bengal, was spotted at Baruipur, situated in the southern periphery of the city.

It is a small Palearctic migrant songbird.

Scientific Name: *Emberiza hortulana*

Distribution: The bird is found in most of Europe, with populations found as far west as Mongolia and as far north as the Arctic Circle.

It is classified as 'Least Concerned' under the IUCN Red List.

### **4. Exercise KONKAN-25:**

**Recent** - Exercise KONKAN-25 commenced on 05 Oct 2025, off the western coast of India.

It is a bilateral naval exercise between the Indian Navy and Royal Navy of UK.

The exercise will be conducted in two phases.

The harbour phase of the Exercise will include professional interactions between naval personnel, cross deck visits, sports fixtures, and cultural engagements.

The sea phase will encompass complex maritime operational drills focusing on anti-air, anti-surface, and anti-submarine exercises, flying operations and other seamanship evolutions.

### **5. Chlorophytum Vanapushpam:**

**Recent** - Researchers during a field exploration in Idukki district's Vagamon hills have identified a new species of the genus *Chlorophytum* and named the new species as *Chlorophytum vanapushpam*.

It is a perennial herb belonging to the genus *Chlorophytum* (family Asparagaceae).

It is a close relative of the safed musli.

It has been found in the rocky hills of Vagamon and Neymakkad - parts of the Western Ghats regions of Idukki district - at elevations between 700 m and 2124 m.

The species name *vanapushpam* is a composite of 'Vanam' and 'Pushpam,' the Malayalam for forest and flower respectively.

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## DAILY DOSE

### CURRENT AFFAIRS – 07/10/2025

#### 1. Karnak Temple:

**Recent** - A sweeping new geoarchaeological study has revealed how Egypt's famed Karnak Temple complex rose from an island amid Nile floods to become one of the ancient world's most enduring sacred centers.

The Karnak Temple, or rather the complex of temples of Karnak in Luxor, Egypt, is one of the most impressive of Ancient Egyptian sites and once formed part of the city of Thebes.

It is located in Karnak, Luxor Governorate, south of Egypt on the east side of the Nile River bank.

It was built between 2055 BC and around 100 AD.

It was built as a cult temple and was dedicated to the gods Amun, Mut, and Khonsu.

#### 2. Viridans Streptococci:

**Recent** - The new study, by a research team at Tampere University in Finland, examined coronary arteries from 121 sudden-death autopsies and found Viridans streptococci were the most frequent species, present in about 42% of both autopsy and surgical cases.

It is a group of common oral bacteria.

It can form sticky bacterial layers called biofilms deep inside atherosclerotic plaques, remaining hidden from the immune system until the moment of rupture.

Viridans streptococci are commensals in the gastrointestinal, respiratory and female genital tracts and are most prevalent in the oral cavity.

It is a group of gram-positive cocci that are commonly associated with infective endocarditis (IE) and typically colonize previously damaged cardiac tissue.

Viridans Streptococcal Biofilm Evades Immune Detection and Contributes to Inflammation.

### **3. Mig La Pass:**

**Recent** - Project Himank of the Border Roads Organisation (BRO) has constructed the world's highest motorable road at Mig La Pass, 19,400 feet above sea level in Ladakh.

Mig La Pass is located on the Changthang Plateau in Ladakh.

**World Record Altitude:** At 19,400 ft, Mig La Pass is the highest motorable road in the world.

**Strategic Axis:** It connects Likaru-Mig La-Fukche, creating the third vital corridor from Hanle to Fukche near the Indo-China border.

### **4. MY Bharat-National Service Scheme (NSS) Awards:**

**Recent** - the President of India presented the MY Bharat-National Service Scheme (NSS) Awards for the year 2022-23 at Rashtrapati Bhavan.

It was instituted by the Ministry of Youth Affairs and Sports in 1993-94.

**Objective:** To honour and celebrate the outstanding contributions of youth in the fields of social service, community development and nation-building.

### **5. Bhavani River:**

**Recent** - The Tamil Nadu Forest Department is monitoring an injured makhna (tuskless male elephant) that has been standing in the river Bhavani along the Tamil Nadu-Kerala border.

It is a major tributary of the Cauvery River.

It flows through the states of Kerala and Tamil Nadu.

It is the second largest river in Tamil Nadu.

It originates from the Western Ghats in the Nilgiri Hills, located in the Tiruppur District of Tamil Nadu.

From there, it flows into Kerala, passing through the Silent Valley National Park.

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## **DAILY DOSE**

### **CURRENT AFFAIRS – 08/10/2025**

#### **1. Easter Island:**

**Recent** - New research reveals Easter Island's moai statues were "walked" upright using ingenious engineering, not dragged or rolled.

It is a Polynesian island located in the southeastern Pacific Ocean.

Named Rapa Nui by its earliest residents, it is one of the most isolated inhabited islands in the world.

The island comprises three extinct volcanoes, namely Terevaka, Poike, and Rano Kau.

It faces a tropical rainforest climate.

UNESCO named Easter Island a World Heritage Site on March 22, 1996, and major parts of the island have been protected under the Rapa Nui National Park.

#### **2. Indian Radio Software Architecture Standard:**

**Recent** - the Defence Research and Development Organisation (DRDO), in collaboration with the Integrated Defence Staff and the Tri-Services released Indian Radio Software Architecture (IRSA) standard 1.0.

It provides a standardised software architecture defining how different radio systems communicate securely and efficiently.

It is India's first national specification defining a standardized software architecture for Software Defined Radios.

#### **3. Online National Drugs Licensing System (ONDLS) Portal:**

**Recent** - While 18 State drug control authorities across the country have adopted the Online National Drugs Licensing System (ONLDS) for processing drug-related licences, no State has yet fully complied with the Corrective and Preventive Action (CAPA) guidelines, confirmed a source in the Union Health Ministry.

It is a digital, single-window platform for processing various drug-related licences in India.

It is developed by the Centre for Development of Advanced Computing (CDAC) in coordination with the Central Drugs Standard Control Organisation (CDSCO), Directorate General of Health Services, Ministry of Health and Family Welfare, and State/UT Drugs Regulatory Authorities.

It is designed to create a uniform, transparent, and accountable process for drug licensing across all States and Union Territories.

#### **4. Marine Stewardship Council (MSC) Certification:**

**Recent** - About 10 Indian marine and saline fish and shrimp varieties are set to get the global Marine Stewardship Council (MSC) certification soon.

The Marine Stewardship Council (MSC) is an international non-profit organisation that sets globally recognised, science-based standards for sustainable fishing and seafood traceability.

The MSC certification program recognises and rewards sustainable fishing practices and is helping create a more sustainable seafood market.

#### **5. *Nesolynx Banabitanae*:**

**Recent** - A new species of wasp named *Nesolynx banabitanae* was recently discovered in Salt Lake, West Bengal.

It is a new species of wasp.

It was found in the lush environs of Central Park, Salt Lake, West Bengal.

It was named 'Nesolynx banabitanae' in honour of Banabitana, the local name for Central Park, where the wasp was first identified.

The discovery marks only the seventh wasp species to be identified in India.



## DAILY DOSE

### CURRENT AFFAIRS – 09/10/2025

#### 1. Plutonium Management and Disposition Agreement (PMDA):

**Recent** - About 100 wild boars were found dead in Nangal Wildlife Sanctuary in March this year, and the postmortem report of the dead wild boars indicates that the wild boars might have died due to toxic waste in Nangal Lake, which is part of the sanctuary.

It is an agreement between the United States and Russia signed in 2000.

It came into force in 2011.

It aimed at reducing vast stockpiles of weapons-grade plutonium left over from thousands of Cold War nuclear warheads.

#### 2. Subansiri Upper Hydroelectric Project:

**Recent** - Hundreds recently protested in Daporijo, Arunachal Pradesh, against the proposed 2,000 MW Subansiri Upper Hydroelectric Project.

It is a 1,800 MW hydropower project.

It is a run-of-the-river project planned on the Subansiri River basin in Arunachal Pradesh.

It is expected to enter into commercial operation in 2031.

The project is being developed by KSK Upper Subansiri Hydro Energy and is currently owned by KSK Energy Ventures.

#### 3. Bridgeoporus Kanadii:

**Recent** - From the forests of northeast India's Arunachal Pradesh state, researchers have described a new-to-science species of fungus named *Bridgeoporus kanadii*.

It is a new species of fungi discovered in Arunachal Pradesh.

It has exceptionally large fruiting bodies that can hold the weight of a person. Some fruiting bodies measured over three meters in radius.

The species is named in honor of Indian mycologist Kanad Das for his contributions to Indian macrofungi.

The only other known species in Bridgeoporus, *B. nobilissimus*, is native to North America and has fruiting bodies up to about 1.5 meters. *B. kanadii* doubles that in size.

#### **4. Damodar River:**

**Recent** - In what locals have described as a miraculous escape, a 65-year-old woman who was swept away by the swollen Damodar River was rescued nearly 45 km downstream in West Bengal recently.

The Damodar River flows through the states of Jharkhand and West Bengal.

Located in the eastern part of the Indian subcontinent, it is an important part of the Ganges River System.

The river is also known as the "Sorrow of Bengal" because of its devastating floods in the plains of West Bengal.

Course:

It originates from the Palamu hills of Chota Nagpur in Jharkhand.

#### **5. Foreign Currency Settlement System:**

**Recent** - the union Finance Minister launched a Foreign Currency Settlement System (FCSS) at the International Financial Services Centre (IFSC) in Gujarat International Finance Tec-City (GIFT City).

It is established under a comprehensive legal and regulatory framework of the Payment and Settlement Systems Act, 2007.

It is authorised by International Financial Services Centres Authority (IFSCA).

It enables foreign currency transactions between IFSC Banking Units (IBUs) to be settled locally instead of routing through the traditional correspondent banking route.

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## DAILY DOSE

### CURRENT AFFAIRS – 10/10/2025

#### 1. Insecure Direct Object Reference (IDOR):

**Recent** – serious data leak was narrowly avoided after the Indian government fixed a major security flaw known as an IDOR, or “insecure direct object reference,” in its income tax e-filing portal.

It is a web application security vulnerability that occurs when an application exposes internal object identifiers, such as database keys or file paths, to users without proper access controls.

It can enable attackers to manipulate these identifiers and gain unauthorized access to sensitive data or perform unauthorized actions on the system.

#### 2. International Solar Alliance (ISA):

**Recent** - Presided over by India, the International Solar Alliance will convene its assembly later this month to assess progress and address challenges in promoting affordable solar energy globally.

It is a treaty-based international intergovernmental organization.

It was launched in 2015 by India and France at the COP21 summit in Paris to promote solar energy as a sustainable solution for energy access and climate change.

Headquarters: National Institute of Solar Energy (NISE) in Gurugram, India.

It is the first international organization established in the country.

#### 3. AIM-120 AMRAAM Missile:

**Recent** - After sending its first consignment of mineral samples to Washington under a rare earths deal, Pakistan may soon receive the AIM-120 Advanced Medium-Range Air-to-Air Missiles (AMRAAM) from the United States.

The AIM-120 Advanced Medium-Range Air-to-Air Missile (AMRAAM) is an active, radar-guided, medium-range, air-to-air missile.

It is among the most widely used beyond-visual-range (BVR) air combat weapons in the world.

Developed in the US in the late 1970s and 1980s, it became operational in 1991 with the US Air Force, replacing older radar-guided missiles.

#### **4. AgriEnIcs Programme:**

**Recent** - the Ministry of Electronics and Information Technology (MeitY) has announced the transfer of technology under the AgriEnIcs Programme.

It is a national programme of the Ministry of Electronics and Information Technology (MeitY).

**Objective:** It involves research, development, deployment, demonstration, and commercialization of technologies in the agriculture and environment domain.

#### **5. DRAVYA Portal:**

**Recent** - In its first phase, the DRAVYA portal aims to catalogue information on 100 key medicinal substances.

Digitized Retrieval Application for Versatile Yardstick of AYUSH Substances (DRAVYA) portal is the largest collection of data on Ayurvedic Ingredients and Products.

It is an ever growing, ever evolving database that covers classical Ayurveda textbooks as well as contemporary scientific literature and field studies.

It is an initiative of the Central Council for Research in Ayurvedic Sciences (CCRAS).



## DAILY DOSE

### CURRENT AFFAIRS – 11/10/2025

#### 1. **Araneus nox:**

**Recent** - a survey by researchers in Idukki Wildlife sanctuary reported the first record of spider species *Araneus nox* in India.

It is an orb-weaving spider species belonging to the Araneidae family.

It is also known as the Leathery Garden Orb-weaver.

It was first documented in 1877 by French arachnologist Eugène Simon from Basilan in the Philippines.

It is known for spinning near-perfect, vertically oriented circular webs on vegetation and tree branches.

**Habitat:** It is mainly found in gardens, forests, and backyards.

#### 2. **Kharasrota River:**

**Recent** - A 59-year-old woman, Soudamini Mahala, was recently killed by a saltwater crocodile in the Kharasrota River.

It is a river in Odisha.

It is a tributary of the Brahmani River, one of the major east-flowing rivers in Odisha.

It originates from the Eastern Ghats in the Keonjhar district.

#### 3. **Southern Right Whale:**

**Recent** - Southern right whales are producing fewer calves, signaling environmental disruption due to climate change.

The southern right whale is one of four species, or types, of right whales.

Like all whales, right whales are mammals that live in the ocean but breathe air at the surface.

It is said that right whales got their name from whalers who considered them the “right” whales to hunt, because they were easy to kill and had body parts that were valuable.

Scientific Name: *Eubalaena australis*.

#### **4. Diethylene Glycol (DEG):**

**Recent** - At least 14 children in India's Madhya Pradesh died after consuming Coldrif syrup, found to contain a toxic contaminant, diethylene glycol (DEG).

Diethylene glycol (also known as 2,2-oxydiethanol and diglycol) is a clear, colourless, odourless liquid with the formula  $C_4H_{10}O_3$ .

It is soluble both in water and in many organic compounds and has hygroscopic properties which makes it a useful industrial chemical.

It is primarily used in industrial applications such as antifreeze, brake fluids, and solvents.

It is not intended for human consumption.



## DAILY DOSE

### CURRENT AFFAIRS – 13/10/2025

#### 1. IUCN's World Commission on Protected Areas:

**Recent** - the Director of Kaziranga National Park and Tiger Reserve has received the Kenton R. Miller Award, constituted by the IUCN World Commission on Protected Areas (WCPA).

IUCN World Commission on Protected Areas is one of six technical commissions of the International Union for Conservation of Nature (IUCN).

It was established in 1948 as a global network dedicated to the conservation of nature and the sustainable use of natural resources.

**Functions:** It specializes in protected area governance, management, and policy, supporting the creation and effective management of protected areas globally, including national parks, reserves, and marine protected areas.

#### 2. Naked Mole Rat:

**Recent** - new study of the naked mole rat shows that these animals have evolved a DNA repair mechanism that could explain their longevity.

It is a small, hairless burrowing rodent native to parts of East Africa.

**Distribution:** They are predominantly found in southern Ethiopia, Kenya, Somalia, and Djibouti.

**Habitat:** They inhabit drier parts of the tropical grasslands and savanna.

**Food:** They are herbivores and feed primarily on very large tubers.

#### 3. Maitri II Station:

**Recent** - the Finance Ministry has granted approval for Maitri II — the country's newest research station proposed to come up in eastern Antarctica.

It is India's newest research station proposed to come up in eastern Antarctica.

It will be larger than Maitri I, with plans to design it as a green research base.

The proposal includes using renewable energy sources — solar power for summer expeditions and wind energy to harness the strong Antarctic winds — to run the station's operations.

#### 4. Somnath Temple:

**Recent** - The President, on a three-day visit to Gujarat, offered prayers at the historic Somnath Mahadev temple in Gir Somnath district recently.

It is a Hindu temple dedicated to Lord Shiva.

It is located in Prabhas Patan near Veraval in Saurashtra on the western coast of Gujarat.

It is the first of the 12 jyotirlinga shrines in India that are regarded as the manifestation of the Lord Shiva Himself.

The site of Somnath has been a pilgrimage site from ancient times on account of being a Triveni Sangam: the confluence of three rivers, namely Kapila, Hiran, and Saraswati.

#### 5. India-UK Connectivity and Innovation Centre (CIC):

**Recent** - India and the United Kingdom recently announced the launch of the India-UK Connectivity and Innovation Centre.

It is a strategic partnership between India and the United Kingdom launched at India Mobile Congress 2025.

The initiative aims to advance digital inclusion and shape the future of secure, innovative, and resilient communications between the two nations.

It will be implemented under the UK-India Technology Security Initiative, jointly delivered by the UK Research and Innovation (UKRI) and India's Department of Telecommunications (DoT).

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## DAILY DOSE

### CURRENT AFFAIRS – 14/10/2025

#### 1. Virtual Museum of Stolen Cultural Objects:

**Recent** - UNESCO launched the Virtual Museum of Stolen Cultural Objects at UNESCO's MONDIACULT conference.

It is an innovative digital platform which reconnects communities with their stolen cultural treasures.

**Aim:** The project aims at designing the first virtual immersive reality museum of stolen cultural objects at a global scale.

It will contribute to raising awareness among the general public to the consequences of illicit trafficking of cultural property and contribute to the recovery of stolen objects.

It was launched at the World Conference on Cultural Policies and Sustainable Development (MONDIACULT 2025).

#### 2. LEAPS 2025:

**Recent** - the Union Minister for Commerce and Industry launched the Logistics Excellence, Advancement, and Performance Shield (LEAPS) 2025 in New Delhi.

LEAPS is a flagship initiative of the Department for Promotion of Industry and Internal Trade (DPIIT) under the Ministry of Commerce and Industry,

**Aim:** It aims to benchmark logistics excellence, strengthen India's competitiveness, and align with the vision of the National Logistics Policy (NLP) and PM GatiShakti.

#### 3. Indian Wolf:

**Recent** - the International Union for Conservation of Nature (IUCN) has for the first time evaluated the Indian wolf (*Canis lupus pallipes*) separately.

It is a subspecies of the Grey Wolf found in the Indian subcontinent and Southwest Asia.

**Habitat:** It prefers scrublands, semi-arid grasslands, and pastoral agro-ecosystems.

**Behavior:** Indian wolves generally live in smaller packs rarely exceeding 6-8 individuals.

They are also relatively less vocal and have rarely been known to howl and are territorial and hunt during the night.

IUCN: Vulnerable

CITES: Appendix I

Wildlife (Protection) Act, 1972: Schedule I.

#### **4. Integrated Alert System (SACHET):**

**Recent** - In a session on disaster risk reduction (DRR) at the ongoing G20 ministerial meeting in Durban, India's Principal Secretary to the Prime Minister outlined India's multi-agency architecture integrating meteorological, hydrological, seismic, and oceanographic institutions through a Common Alert Protocol-compliant Integrated Alert System.

It is a disaster early warning platform envisioned by the National Disaster Management Authority (NDMA) to provide real-time geo-targeted alerts to citizens.

It was developed by the Centre for Development of Telematics (C-DOT), the premier R&D center of the Department of Telecom.

It is based on the Common Alerting Protocol (CAP) recommended by the International Telecommunication Union (ITU).

#### **5. Steadfast Noon:**

**Recent** - NATO's annual nuclear deterrence exercise, Steadfast Noon, will be hosted by the Netherlands this year.

It is an annual nuclear exercise by NATO (North Atlantic Treaty Organization).

It is an important test for the alliance's nuclear deterrent.

It is hosted by a different NATO country each year.

The 2025 edition of the exercise is being hosted by the Netherlands, with Volkel Air Base serving as the main operating site.

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## **DAILY DOSE**

### **CURRENT AFFAIRS – 15/10/2025**

#### **1. Naying Hydroelectric Project:**

**Recent** - An environmental public hearing for the 1000MW Naying hydroelectric project is scheduled for November 12.

It is a proposed 1,000 MW hydropower project planned on the Siyom (Yomgo) river/basin in Arunachal Pradesh.

It will be implemented by the North Eastern Electric Power Corporation (NEEPCO).

The project includes the construction of a concrete dam, an underground powerhouse, and tunnels, with work expected to begin around 2028 and commissioning planned for 2032.

#### **2. Live Cases Dashboard of the Legal Information Management and Briefing System (LIMBS):**

**Recent** - Union Minister of State for Law and Justice recently inaugurated the Live Cases Dashboard of Legal Information Management and Briefing System (LIMBS) in New Delhi.

It is designed to provide real-time data visualisation of court cases and offer an overview of upcoming hearings to enable proactive decision-making and better inter-ministerial coordination.

It provides details of all cases scheduled to be heard in the next seven days in the Supreme Court, High Courts, or any other courts involving various ministries of the Government of India.

#### **3. Astra Mark 2 Missile:**

**Recent** - The Defence Research and Development Organisation (DRDO) recently announced its intention to extend the range of its Astra Mark 2 air-to-air missile to more than 200 kilometres.

It is a Beyond Visual Range (BVR) air-to-air missile.

It is being developed by the Defence Research and Development Organisation (DRDO).

#### **4. Impatiens Rajibiana:**

**Recent** - A team of the Botanical Survey of India recently discovered 'Impatiens rajibiana', a new species of balsam flower.

It is a new species of balsam flower.

It was discovered in the natural forests of Shergaon in the West Kameng district of Arunachal Pradesh.

The plant was discovered growing in moist, shaded forest areas of Shergaon at an elevation of over 2,000 meters.

It belongs to the family Balsaminaceae, commonly known as balsams.

#### **5. Mission Drishti:**

**Recent** - Space-tech start-up GalaxEye will launch the world's first multi-sensor Earth observation (EO) satellite 'Mission Drishti' in the first quarter of next year.

It is the world's first multi-sensor Earth observation (EO) satellite.

It is India's largest privately built satellite and also the highest-resolution satellite developed in the country.

It is planned by Bengaluru based space startup – GalaxEye.



## DAILY DOSE

### CURRENT AFFAIRS – 16/10/2025

#### 1. *Lagocheilus hayaomiyazakii*:

**Recent** - Researchers from the Thackeray Wildlife Foundation recently discovered a new species of snail named *Lagocheilus hayaomiyazakii*, also known as Tilari hairy snail.

It is a new species of hairy snail.

It was found in the evergreen Tilari forest region of Kolhapur district, Maharashtra.

It is found in leafy thickets and rocks of forests in the Western Ghats.

#### 2. *Exercise Samudra Shakti*:

**Recent** - The Indian Navy is hosting the fifth edition of Exercise, 'Samudra Shakti – 2025' at Visakhapatnam.

It is a joint bilateral maritime exercise between India and Indonesia.

It is a key bilateral engagement aimed at enhancing interoperability, strengthening mutual understanding, and sharing best practices between the two navies.

#### 3. *SAIME Initiative*:

**Recent** - a model of Sustainable Aquaculture in Mangrove Ecosystems (SAIME) in West Bengal's Sundarbans has been conferred Global Technical Recognition by the Food and Agriculture Organization (FAO) of the United Nations.

The Sustainable Aquaculture in Mangrove Ecosystems (SAIME) is a multi-stakeholder partnership (MSP) to strengthen transformative processes in

shrimp trade as a basis for the protection of mangrove ecosystems in West Bengal.

It is a climate-adaptive and conservation-linked livelihood initiative that integrates brackish water shrimp-based aquaculture with mangrove restoration.

It is an ecosystem-based, climate-adaptive, and conservation-linked livelihood approach.

Implemented by: It has been implemented in collaboration with Global Nature Fund (GNF), Nature Environment and Wildlife Society (NEWS), Naturland, and Bangladesh Environment & Development Society (BEDS).

#### **4. Military Combat Parachute System:**

**Recent** - the Defence Research and Development Organisation (DRDO) successfully tested the Military Combat Parachute System (MCPS) at 32,000 feet altitude.

It is indigenously developed by the Defence Research and Development Organisation (DRDO).

Organizations involved: It has been designed by DRDO's Aerial Delivery Research and Development Establishment, Agra, and Defence Bioengineering and Electromedical Laboratory, Bengaluru.

#### **5. Silent Valley National Park:**

**Recent** – Six new species of dragonflies and damselflies were found in Silent Valley National Park during an odonate survey held recently.

It is a stretch of pristine wet evergreen forest located along the southwest corner of the Nilgiris in South India, in the State of Kerala.

It is one of the last undisturbed tracts of tropical rainforest in India.

It constitutes the centerpiece of the Nilgiri Biosphere Reserve, sanctified as a World Heritage Site by UNESCO in 2012.



## DAILY DOSE

### CURRENT AFFAIRS – 17/10/2025

#### 1. United Nations Global Geospatial Information Management for Asia and the Pacific:

**Recent** - India has been elected as Co-Chair of the Regional Committee of the United Nations Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP) for a three-year term till 2028.

The UN-GGIM-AP is one of the five regional committees of the United Nations Committee of Experts on Global Geospatial Information Management.

It is the apex inter-governmental mechanism for making joint decisions and setting directions with regard to the production, availability and use of geospatial information within national, regional and global policy frameworks.

#### 2. Taftan Volcano:

**Recent** - New research shows that Taftan volcano in Iran seems to be waking up after a 700,000-year-long sleep.

It is a 12,927-foot (3,940 meters) semi-active stratovolcano located in southeastern Iran, 56 km from the Pakistan border.

It is the only active volcano in the Makran continental volcanic arc.

It is situated among a rumble of mountains and volcanoes that was formed by the subduction of the Arabian ocean crust under the Eurasian continent.

It hosts an active hydrothermal system and smelly, sulfur-emitting vents called fumaroles.

The volcano contains two summits (Narkuh and Matherkuh).

### **3. Scheme for Innovation and Technology Association with Aadhaar:**

**Recent** - the Unique Identification Authority of India (UIDAI) has launched the Scheme for Innovation and Technology Association with Aadhaar (SITAA).

It was launched to strengthen India's digital identity ecosystem and combat emerging security threats such as deepfakes, spoofing, and presentation attacks.

It aims to bring together startups, academic institutions, and industry players to co-develop secure, scalable, and globally benchmarked solutions that enhance Aadhaar authentication.

The program will particularly focus on advanced biometric technologies, authentication frameworks, artificial intelligence, and data privacy.

### **4. Celestial Body –Chiron:**

**Recent** – astronomers for the first time observed a ring system formation around icy celestial body Chiron.

Chiron is part of a class of objects called centaurs (which populate the outer solar system between Jupiter and Neptune), displaying characteristics of both asteroids and comets.

It was discovered in 1977 by astronomer Charles Kowal.

### **5. Chikungunya:**

**Recent** - The New York State Department of Health recently confirmed the first locally acquired case of chikungunya in the United States in over six years.

It is a mosquito-borne viral disease caused by the chikungunya virus (CHIKV).

It causes fever and severe joint pain.

It was first described during an outbreak in southern Tanzania in 1952 and has now been reported in more than 110 countries in Asia, Africa, the Americas, and Europe.

The name “chikungunya” derives from a word in the Kimakonde language of southern Tanzania, meaning “that which bends up” and describes the stooped appearance of infected people with severe joint pain (arthralgia).

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## DAILY DOSE

### CURRENT AFFAIRS – 18/10/2025

#### 1. Markanda River:

**Recent** - The National Green Tribunal (NGT) recently directed the State Pollution Control Boards of Himachal and Haryana and the Sirmaur deputy commissioner to file detailed reports on the status of water pollution caused by industries in the Markanda River in the Sirmaur district of Himachal Pradesh.

It is a tributary of the Ghaggar River.

It was historically known as Aruna and is linked to the mythological Saraswati River.

It originates from the lower Shiwalik hills in the Nahan area of Sirmaur district, Himachal Pradesh.

#### 2. Mount Lewotobi:

**Recent** - Indonesia's Mount Lewotobi Laki-laki erupted recently, shooting volcanic ash 10 kilometres (6.21 miles) into the sky.

It is a twin-peaked active volcano located on the tourist island of Flores in eastern Indonesia.

It is situated along the famous 'Ring of Fire' in the Pacific region.

It is one of the most frequently active volcanoes in the region.

It has two peaks arranged on a NW-SE line separated by 2 km and a 1232 m high saddle. This gave the twin volcano its name, Lewotobi, "husband and wife".

### **3. International Union for the Protection of New Varieties of Plants (UPOV):**

Recent - The report released by GRAIN documented how a growing number of FTAs compel countries to adopt plant variety protection standards set by the 1991 UPOV Convention.

UPOV is an intergovernmental organization established in 1961 to provide an effective system of plant variety protection.

It administers the UPOV Convention, which provides a legal framework for plant variety protection implemented by its members.

**Purpose:** Under this framework, breeders of new plant varieties are granted an intellectual property right known as the breeder's right, which incentivizes innovation in plant breeding.

The UPOV Convention entered into force in 1968 and was revised in 1972, 1978 and 1991, each time strengthening plant breeders' rights.

**Member countries:** 80 members have become members of UPOV. (India is not a member of this organization)

**Headquarter:** Geneva (Switzerland).

### **4. State Mining Readiness Index:**

Recent - the Ministry of Mines released the State Mining Readiness Index (SMRI).

It serves as a tool for benchmarking State performance and encouraging healthy competition, accelerating the pace of mining reforms and sustainable resource management across India.

**Published by:** Ministry of Mines

The index evaluates States on parameters like: auction performance, early mine operationalisation, focus on exploration, and sustainable mining practices related to non-coal minerals.



## DAILY DOSE

### CURRENT AFFAIRS – 21/10/2025

#### 1. International Maritime Organisation (IMO):

**Recent** - The United States President Donald Trump recently said that he was “outraged” that the International Maritime Organisation would be voting on whether to impose a carbon emissions price on global shipping and called it a “Global Green New Scam Tax.”

It is the United Nations' specialised agency responsible for the safety and security of shipping and the prevention of marine pollution by ships.

With 176 Member States and three Associate Members, IMO is based in London.

#### 2. Rakchham Chitkul Wildlife Sanctuary:

**Recent** - An international bird-watching programme was recently organised at the scenic Rakchham area of the Rakchham-Chitkul Wildlife Sanctuary in Himachal Pradesh.

It is located in the Kinnaur district of Himachal Pradesh.

It is spread over an area of 30.98 sq.km.

It is situated at an elevation ranging from 3200 to 5486 meters above sea level.

It is a part of the Western Himalayan range.

It is surrounded by snow-capped mountains, lush green valleys, and gushing rivers.

#### 3. Tuvalu Island:

**Recent** - The Government of Tuvalu has officially become the 90th State Member of the International Union for Conservation of Nature (IUCN) recently.

Tuvalu, formerly known as the Ellice Islands, is an island country in the west-central Pacific Ocean.

It is the 4th smallest country in the world with 26 sq.km. of land.

It sits about halfway between Australia and Hawaii.

Its neighbours include Kiribati, to the north, and Fiji, to the south.

#### **4. New Development Bank (NDB):**

**Recent** - Pakistan has sought the help of China, which it considers an "iron friend", to get a membership of the Brics Development Bank.

The New Development Bank (NDB), formerly known as the BRICS Development Bank, is a multilateral development bank established by Brazil, Russia, India, China, and South Africa (BRICS).

Objective: NDB aims to mobilize resources for infrastructure and sustainable development projects in BRICS countries and other emerging economies and developing countries.

#### **5. Zombie Deer Disease:**

**Recent** - Health officials in Florida recently have confirmed cases of Chronic Wasting Disease, commonly known as "Zombie Deer Disease".

Known scientifically as Chronic Wasting Disease (CWD), it is a progressive and fatal neurological disease which primarily affects deer, elk, moose, and reindeer.

It affects the central nervous system (the brain and the spinal cord).



## DAILY DOSE

### CURRENT AFFAIRS – 22/10/2025

#### 1. MAM01 Monoclonal Antibody:

**Recent** - A novel monoclonal antibody named MAM01, developed by US researchers has demonstrated strong protection against malaria in an early clinical trial.

MAM01 is a monoclonal antibody developed to prevent malaria infection.

It's designed to target a highly conserved region of the Plasmodium falciparum circumsporozoite protein, blocking infection before the parasite reaches the bloodstream.

The trial found that MAM01 provided dose-dependent full protection against the malaria parasite with minimal side effects.

#### 2. Carabid Beetle:

**Recent** - researchers found that carabid ground beetles act as potential bio indicators to track soil micro plastics.

They are commonly known as ground beetles due to their habitat and behavior.

Ground beetles (Carabidae) are an important family of invertebrates known to strongly influence food web structure, often as key predators or prey species.

It belongs to the family Carabidae.

**Habitat:** Carabid beetles are found in a wide variety of habitats, including forests, grasslands, agricultural fields, wetlands, and even urban areas.

#### 3. Malabar Gliding Frog:

**Recent** - A rare species known as the Malabar Gliding Frog was sighted at Hirebagewadi near Belagavi recently.

The Malabar gliding frog, or Malabar flying frog, is a special type of tree frog.

Scientific Name: *Rhacophorus malabaricus*.

It is endemic to the rainforests of the Western Ghats of India.

IUCN Red List: Least Concern.

#### **4. Konark-Balukhand Sanctuary:**

**Recent** - The spotted deer, once the pride of the Konark-Balukhand Wildlife Sanctuary, appears to be dwindling fast in numbers.

Location: It is located in Puri district, Odisha.

It was established on the sandy tract covered by plantation of casurina and cashew trees, along the coast between Puri and Konark.

Rivers: It is traversed by the rivulets such as Nuanai River, Kusabhadra River, Kadua River, and Prachi River.

#### **5. Sinapic Acid:**

**Recent** - Nagaland University researchers have identified a naturally occurring plant compound called 'Sinapic acid' that is capable of significantly accelerating wound healing in diabetic conditions.

It is a natural phenolic acid compound, and is a derivative of cinnamic acid.

It has antioxidant, antitumor, anti-inflammatory, antibacterial and neuroprotective effects.

It is extensively found in spices, citrus and berry fruits, vegetables, cereals, and oilseed crops.



## DAILY DOSE

### CURRENT AFFAIRS – 23/10/2025

#### 1. Skilling for AI Readiness (SOAR) Programme:

**Recent** - India is taking a major step toward building an AI-ready generation through the Skilling for AI Readiness (SOAR) programme.

It was launched by the Ministry of Skill Development and Entrepreneurship (MSDE).

It aims to integrate artificial intelligence learning into India's school education and training ecosystem, preparing both students and teachers for a rapidly evolving digital world.

SOAR's long-term vision is to position India as a global leader in AI by preparing its youth for AI-driven careers and entrepreneurial ventures.

It focuses on school students from classes six to twelve and educators across India.

It is offering three targeted 15-hour modules for students and a 45-hour module for teachers.

#### 2. Indian Scops-Owl:

**Recent** - In a rare and remarkable discovery, birdwatchers recently recorded the first-ever sighting of the Indian scops owl near the Daroji Sloth Bear Sanctuary in Karnataka.

It is a small woodland owl species, native to the southern regions of Asia.

Scientific Name: *Otus bakkamoena*

Distribution: It is found in India, Nepal, Pakistan, Sri Lanka, and Iran.

It is found in a variety of habitats, including forests, scrublands, and agricultural areas.

It is a non-migratory species and tends to stay in the same area throughout the year.

### **3. Sabarimala Temple:**

**Recent** - President Droupadi Murmu recently made a historic visit to the Lord Ayyappa temple in Sabarimala, becoming the first woman head of state to offer prayers at the renowned hilltop shrine.

Located in the Western Ghats in the Pathanamthitta District of Kerala, the Sabarimala Sree Dharma Sastha Temple is an ancient temple dedicated to Lord Ayyappa.

Ayyappa, also known as Dharma Shasta, is the son of Shiva and Mohini, the feminine form of Vishnu.

The temple is situated on a hilltop amidst 18 hills at an altitude of 4,134 ft above sea level.

It is surrounded by mountains and dense forests that are a part of the Periyar Tiger Reserve.

It is not open throughout the year.

### **4. Anagyrus lopezi:**

**Recent** - Two years after scientists from the National Bureau of Agricultural Insect Resources (NBAIR), released a tiny parasitic wasp *Anagyrus lopezi* into South India's tapioca fields, the crop that once faced near devastation from an invasive pest is now thriving again.

It is a tiny parasitic wasp which specifically targets the cassava mealybug.

**Working:** The wasp lays its eggs inside the pest, and the developing larvae consume it from within, naturally reducing mealybug numbers without harming other crops.

The parasitoids spread naturally beyond the release points, up to 30–40 km, gradually bringing the mealybug population under control.

It was imported from the International Institute of Tropical Agriculture (IITA), Benin, West Africa.

### **5. Central Asian Mammals Initiative:**

**Recent** - Representatives from a number of Central Asian countries have endorsed the Central Asian Mammals Initiative that identifies priority transboundary conservation regions important for conserving seventeen iconic mammal species of the region.

It was launched in 2014 at the 11th Meeting of the Conference of the Parties (COP11) to the Convention on the Conservation of Migratory Species of Wild Animals (CMS).

It aims to reverse the population decline of 17 migratory mammal species in 14 Central Asian countries where these species live.

CAMI presents a common framework to address major threats to the Central Asian migratory species.



## DAILY DOSE

### CURRENT AFFAIRS – 24/10/2025

#### 1. Barnawapara Wildlife Sanctuary:

**Recent** - After being declared locally extinct for about 50 years, the blackbuck has made a remarkable comeback at Barnawapara Wildlife Sanctuary in Chhattisgarh thanks to a focused five-year revival plan.

It is located in the northern part of the Mahasamund district of Chhattisgarh.

It is named after the Bar and Nawapara forest villages, which are in the heart of the sanctuary.

It is spread over an area of 245 sq. km.

The tributaries of Mahanadi are the source of water. The River Balamdehi forms the western boundary and the Jonk River forms the northeastern boundary of the sanctuary.

#### 2. National Means Cum Merit Scholarship Scheme (NMMSS):

**Recent** - The State Councils of Educational Research and Training (SCERTs) recently released the application forms for the National Means cum Merit Scholarship Scheme (NMMS) for various states.

It is a Centrally Sponsored Scheme launched in May, 2008.

**Objective:** Award scholarships to meritorious students of economically weaker sections to arrest their dropout at class VIII and encourage them to continue the study at the secondary stage.

NMMSS is on the National Scholarship Portal (NSP) – a one-stop platform for scholarship schemes given to students.

### **3. Hyunmoo-5 Missile:**

**Recent** - South Korea is ready to deploy its 'monster missile' Hyunmoo 5 at the end of the year marking a significant conventional arsenal upgrade against its northern counterpart in the Korean peninsula.

It is a ballistic missile developed by South Korea.

It is designed for deep penetration strikes with a massive conventional warhead capable of destroying heavily fortified underground targets.

It is part of South Korea's Korean Massive Punishment and Retaliation (KMPR) framework, which is designed to deter North Korean aggression without the use of nuclear weapons.

It was officially unveiled in October 2024.

### **4. Intrusion Detection System:**

**Recent** - the Northeast Frontier Railway (NFR) has successfully completed trial works of the Intrusion Detection System (IDS) in four key sections.

The IDS initiative aims to strike a balance between operational efficiency and environmental protection.

**Objective:** It is designed to protect wildlife and maintain operational efficiency, especially in areas where railway lines pass through forested and elephant-inhabited zones.

It runs parallel to tracks at a distance of 10 metres.

**Launched by:** This initiative has been launched by the Northeast Frontier Railway (NFR) under the Ministry of Railways.

### **5. Sevilla Forum on Debt:**

**Recent** - the Sevilla Forum on Debt was launched at the 16th United Nations Conference on Trade and Development (UNCTAD16) in Geneva.

It is a Spain-led initiative launched at the 16th United Nations Conference on Trade and Development (UNCTAD16).

It is supported by UNCTAD and the UN Department of Economic and Social Affairs (DESA).

Aim: To serve as an open and inclusive space for dialogue and action on sovereign debt reform.

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## DAILY DOSE

### CURRENT AFFAIRS – 25/10/2025

#### 1. Duty-Free Tariff Preference (DFTP) Scheme:

**Recent** - the World Trade Organization credits India's Duty-Free Tariff Preference (DFTP) scheme for boosting exports from the poorest nation.

It was initiated in 2008 and offers Least Developed Countries (LDCs) preferential access to the Indian market.

The DFTP scheme aims to boost LDCs' economic growth, diversify exports, and strengthen trade relations.

**Objective:** The objective of the scheme for LDCs is grant of tariff preferences on the exports of the Least Developed Countries on imports to India.

#### 2. Kopi Luwak:

**Recent** - A recent study revealed that civet-processed Robusta coffee, known as Kopi Luwak, differs significantly from naturally harvested Robusta beans in its fatty acid composition and total fat content, providing new scientific insight into the unique aroma and flavour that make it famous.

Kopi Luwak, also known as Civet Coffee, is one of the world's most expensive and exclusive coffees.

It's made from beans that have been partially digested and excreted by the Asian Palm Civet.

The Asian Palm Civet, also known as the Toddy Cat or Common Palm Civet, is a small, nocturnal mammal that is found throughout South and Southeast Asia, including India, Sri Lanka, Indonesia, and the Philippines.

It Is a member of the Viverridae family, which also includes other civet and mongoose species.

Scientific Name: *Paradoxurus hermaphroditus*.

IUCN Red List: Least Concern.

### **3. Project Arunank:**

**Recent** - the Project Arunank of the Border Roads Organisation (BRO) marked its 18th Raising Day.

It has been implemented since 2008 by the Border Roads Organization (BRO) in Arunachal Pradesh.

The name of the Project has been conceived from the name of the State of Arunachal Pradesh.

**Objective:** To provide vital connectivity to remote valleys & forward areas of Arunachal Pradesh while meeting the operational requirements of the Armed Forces.

### **4. Network Survey Vehicle:**

**Recent** - the National Highway Authority of India (NHAI) has announced that it will deploy Network Survey Vehicles (NSVs) in 23 states.

It is a specialized infrastructure management tool comprising vehicles equipped with advanced sensors and data acquisition systems.

These vehicles systematically collect data on road inventory and condition of National Highways.

### **5. Mahe- Anti-Submarine Warfare Shallow Water Craft:**

**Recent** - the Mahe -Anti-Submarine Warfare Shallow Water Craft (ASW SWC) was delivered to the Indian Navy.

It is the first of eight Anti-Submarine Warfare Shallow Water Crafts (ASW SWC).

Built by: It was built by Cochin Shipyard Limited (CSL) Kochi.

It was named after the historic port town in the Union Territory of Puducherry, symbolises India's rich maritime heritage.

The warship has been designed and constructed as per the classification rules of Det Norske Veritas (DNV).

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## **DAILY DOSE**

### **CURRENT AFFAIRS – 27/10/2025**

#### **1. Asia-Pacific Economic Cooperation (APEC):**

**Recent** - US President Donald Trump and his Chinese counterpart Xi Jinping are likely to meet at the Asia-Pacific Economic Cooperation (APEC) summit in South Korea.

It is a regional economic forum established in 1989 to leverage the growing interdependence of the Asia-Pacific.

It aims to create greater prosperity for the people of the region by promoting balanced, inclusive, sustainable, innovative, and secure growth and by accelerating regional economic integration.

The focus of APEC has been on trade and economic issues, and hence, it terms the countries as “economies”.

#### **2. INS Mahe:**

**Recent** - Cochin Shipyard Limited (CSL) recently delivered the first of the eight anti-submarine warfare shallow water craft (ASW-SWC), INS Mahe, indigenously designed and built by it to the Indian Navy.

It is the first of the eight anti-submarine warfare shallow water craft (ASW-SWC) of the Indian Navy.

It is indigenously designed and built by the Cochin Shipyard Limited (CSL).

Designed for a wide range of coastal defence missions, Mahe is equipped for underwater surveillance, search and rescue duties, Low Intensity Maritime Operations (LIMO), and complex mine-laying tasks.

#### **3. Ollo Tribe:**

**Recent** - In an effort to promote self-reliance and inclusive growth, the Khonsa Battalion of the Assam Rifles recently launched a skill-based initiative to empower women of the Ollo tribe under Operation Sadbhavana.

It is an indigenous tribe inhabiting the Laju Circle of the Tirap district in Arunachal Pradesh, India, and parts of Myanmar.

The Ollo people are also known as Oloh or Lazu Naga.

#### **4. CMS-03 Satellite:**

**Recent** - The Indian Space Research Organisation (ISRO) will launch military communications satellite CMS-03 from the Satish Dhawan Space Centre in Sriharikota.

It is a communication satellite, also known as GSAT-7R, and will be launched by the Launch Vehicle Mark 3 (LVM3).

It is a multi-band communication satellite that will provide services over a wide oceanic region including the Indian landmass.

It is weighing about 4400kg, will be the heaviest communication satellite. It will be launched to Geosynchronous Transfer Orbit (GTO).

It will provide sharper connectivity and increased bandwidth for civil, strategic, and maritime users.

#### **5. White-Cheeked Partridge:**

**Recent** - White-cheeked Partridge (*Arborophila atrogularis*) was rescued near Dehing Patkai National Park.

It is a species of partridge in the family Phasianidae.

**Habitat:** It inhabits dense undergrowth in primary and secondary evergreen forest; this sometimes includes adjacent areas of scrub, bamboo, grassland and cultivated land.

In India, the species occurs generally at altitudes below 750 m, but may be found at up to 1,220 m in South-East Asia.

**Distribution:** It is found mainly in Northeast India, northern Myanmar, and northeast Bangladesh.

Lifestyle: It is a terrestrial and non-migrant species.

Threats: It is principally threatened by habitat loss and persecution.

Conservation Status: IUCN: Near Threatened.

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## DAILY DOSE

### CURRENT AFFAIRS – 28/10/2025

#### 1. Taal Volcano:

**Recent** - the Taal Volcano in the Philippines reportedly erupted three times.

**Location:** It is located in Batangas province about 70 kilometers south of Manila, Philippines.

Taal is classified as a “complex” volcano by the Philippine Institute of Volcanology and Seismology (PHIVOLCS).

It is a stratovolcano with a crater lake on a 5-km-wide volcanic island within a large caldera.

#### 2. Loktak Lake:

**Recent** - a Nagaland University study has flagged an environmental worry for Manipur’s Loktak Lake.

**Location:** It is located in the state of Manipur.

It is the largest freshwater lake in Northeast India.

It is famous for the phumdis floating over it.

The Keibul Lamjao National Park, home to the rare brow-antlered deer, is an integral part of the lake.

Rivers like Khuga, Western, Nambul, Imphal, Kongba, Iril, Thoubal, Heirok, and Sekmai drain into this lake.

#### 3. Dilmun Civilization:

**Recent** - Kuwait's Failaka Island has just yielded one of its most significant secrets in decades: a 4,000-year-old temple belonging to the powerful Bronze Age Dilmun civilization.

Dilmun (Telmun) was a civilization located in the eastern part of the Arabian Peninsula.

Dilmun was mainly located on the islands of Bahrain and Failaka Island in Kuwait.

It also had a presence in parts of Saudi Arabia, Qatar, Oman, and the nearby Iranian coast in the Persian Gulf.

#### **4. Bondla Wildlife Sanctuary:**

**Recent** - Goa's only zoo, located within the Bondla Wildlife Sanctuary, is set to welcome new animals after 12 years—a barking deer and a pair of sloth bears.

It is located in the northeastern portion of Goa.

It is spread over an area of approximately 8 sq.km. and is located 3000 ft. above on the lush foothills of the Western Ghats.

#### **5. INS IKSHAK:**

**Recent** - The Indian Navy's indigenously built Survey Vessel (Large), Ikshak, is set to be commissioned at Naval Base Kochi.

It is the indigenously built Survey Vessels (Large) (SVL) which will study underwater hydrography.

The ship's name, Ikshak, meaning "The Guide", symbolises its purpose: to chart unexplored waters, ensure safe navigation for mariners.

It is constructed by Garden Reach Shipbuilders & Engineers (GRSE) Ltd, Kolkata.



## DAILY DOSE

### CURRENT AFFAIRS – 29/10/2025

#### 1. Coelacanth:

**Recent** - Paleontologists in China have described a new species of the coelacanth genus Whiteia on the basis of two fossilized specimens.

The Coelacanth is a prehistoric, lobe-finned fish (belonging to the order Coelacanthiformes) that was once thought to be extinct for about 66 million years, until it was rediscovered alive in 1938 off the coast of South Africa.

It is often called a “living fossil.”

The earliest coelacanth fossils date back as far as the Devonian period, approximately 420 mya.

#### 2. National Seeds Corporation:

**Recent** - the Union Minister for Agriculture & Farmers' Welfare and Rural Development, inaugurated National Seeds Corporation's state-of-the-art seed processing plant at Pusa Complex, New Delhi.

It was established in 1963 to undertake production of foundation and certified seeds.

It is under the administrative control of the Department of Agriculture & Farmer's Welfare, Ministry of Agriculture and Farmer's Welfare.

It is a Schedule 'B' – Mini Ratna Category-I Company, fully owned by the Government of India.

#### 3. SJ-100:

**Recent** - The Hindustan Aeronautics Limited (HAL) and Russia's United Aircraft Corporation (UAC) recently signed a Memorandum of Understanding for production of civil commuter aircraft SJ-100.

It is a new generation short-haul jet aircraft of Russian origin.

Earlier called the Sukhoi Superjet 100, it originally was designed by the now-merged Russian aircraft company Sukhoi Civil Aircraft.

It is a twin-engine, narrow-body aircraft.

The aircraft is primarily used for commercial purposes.

#### **4. Rehabilitation Council of India:**

**Recent** - the Rehabilitation Council of India (RCI) has announced a sweeping set of reforms designed to bring transparency, efficiency and inclusivity to the rehabilitation ecosystem across the country.

It is a statutory body established by an Act of Parliament.

Background: It was set up as a registered society in 1986. In September 1992 the RCI Act was enacted by Parliament and it became a Statutory Body on 22 June 1993.

Mandate: To regulate and monitor services given to persons with disabilities, to standardise syllabi and to maintain a Central Rehabilitation Register of all qualified professionals and personnel working in the field of Rehabilitation and Special Education.

Nodal Ministry: Ministry of Social Justice & Empowerment.

#### **5. Koyla Shakti Dashboard:**

**Recent** - The Ministry of Coal is set to launch "Koyla Shakti", a Smart Coal Analytics Dashboard in New Delhi.

It is a smart coal analytics Dashboard that will serve as a unified platform for real-time monitoring and analysis of coal sector operations.

It serves as a centralized digital platform integrating data from multiple stakeholders.

Objectives: To strengthen operational efficiency, promote transparency, and enhance coordination across the coal supply chain.



## DAILY DOSE

### CURRENT AFFAIRS – 30/10/2025

#### 1. Samriddh Gram Phygital Services Pilot Project:

**Recent** - the Telecom Centres of Excellence (TCoE) has signed agreements with leading implementation partners to roll out the Samriddh Gram Phygital Services Pilot project.

It is aimed at transforming rural India through a seamless integration of physical and digital services.

It is envisaged as a pioneering phygital (physical + digital) Services model integrating on-ground presence with robust digital infrastructure to empower rural citizens.

It leverages BharatNet connectivity to deliver essential services seamlessly and sustainably.

#### 2. CLAMP Portal:

**Recent** - the Union Minister of Coal and Mines launched two digital platforms the KOYLA SHAKTI Dashboard and the CLAMP Portal

The Coal Land Acquisition, Management, and Payment (CLAMP) portal is a unified digital solution for the coal sector.

It is aimed at streamlining land acquisition, compensation, and rehabilitation & resettlement (R&R) processes in the coal sector.

It serves as a centralized repository of land records, the portal ensures data integration, enhances accountability, and minimizes procedural delays.

Initiative of: Ministry of Coal

Advantages: CLAMP portal enhances transparency, efficiency, and inter-agency coordination in land management practices across coal PSUs.

### **3. *Hemiphyllodactylus Venkatadri*:**

**Recent** - scientists from the Zoological Survey of India (ZSI) have discovered a new species of slender gecko and named it as *Hemiphyllodactylus Venkatadri*.

It is a new species of slender Gecko belonging to the genus *Hemiphyllodactylus*.

It was discovered from Tirumala hill ranges within the Seshachalam biosphere reserve in Andhra Pradesh.

It derives its name from the sacred Venkatadri Hills.

It is the second slender gecko species recorded from Andhra Pradesh, after *Hemiphyllodactylus arakuensis*.

### **4. *Transit Oriented Development*:**

**Recent** - Delhi Development Authority's (DDA's) East Delhi hub is set to roll out India's first transit-oriented development (TOD) project.

It is an urban development strategy which aims to create the maximum possible numbers of houses, shops, offices and recreational spaces near public transport facilities.

The TOD approach puts public transportation at the centre of the urban development plan.

**Objectives:** To minimise use of personal vehicles, make commutes shorter, and reduce the cost of transport and exposure to pollutants.

### **5. Model Youth Gram Sabha:**

**Recent** - The Ministry of Panchayati Raj in collaboration with the Ministry of Education (Department of School Education and Literacy) and the Ministry of Tribal Affairs, will jointly launch the Model Youth Gram Sabha (MYGS) in New Delhi.

It is a simulated forum for School Children to participate in mock Gram Sabha sessions.

It is a pioneering initiative to strengthen Janbhagidari and promote participatory local governance by engaging students in simulated Gram Sabha sessions.

It is an initiative based on the Model UN – an educational simulation of the United Nations – in schools across the country

Initiative of: It is an initiative of the Ministry of Panchayati Raj, in collaboration with the Ministry of Education and the Ministry of Tribal Affairs.

Implementation: It will be rolled out across more than 1,000 schools nationwide, including Jawahar Navodaya Vidyalayas, Eklavya Model Residential Schools (EMRSs), and State Government Schools.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 31/10/2025

#### 1. Neasden Temple:

**Recent** - King Charles III and Queen Camilla made a memorable visit to the BAPS Shri Swaminarayan Mandir, widely known as Neasden Temple, in London.

Neasden Temple, or BAPS Shri Swaminarayan Mandir, is a Hindu Temple, located in Neasden, London.

It was the first traditional Hindu stone temple in Europe.

The temple opened in 1995.

It was built using old, traditional methods and materials.

The Guinness World Records 2000 once called it the "Biggest Hindu Temple outside India."

It was built by Pramukh Swami Maharaj, a respected spiritual leader.

#### 2. Global Virus Network (GVN):

**Recent** - The Global Virus Network (GVN) has expanded its international coalition by incorporating three distinguished Centers of Excellence located in the Americas, broadening its capacity to address pressing viral threats on a global scale.

It is a voluntary consortium of virology laboratories and affiliated scientists that seek to prevent and control global viral threats.

It represents more than 25 countries and includes experts in every class of virus-causing disease in humans.

No single institution in the world has expertise in all viral areas.

### **3. *Bordetella holmesii*:**

**Recent** - A team at the Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, has reported a significant rise in infections caused by a lesser-known bacterium *Bordetella holmesii* that mimics whooping cough in north India.

It is a bacterium recently recognized in 1995.

It is a gram-negative coccobacillus that can cause pertussis-like symptoms in humans as well as invasive infections.

It can cause endocarditis, community acquired pneumonia, cellulitis, suppurative arthritis, and pyelonephritis.

### **4. Meteor Missile:**

**Recent** - After defeating Pakistan in the recent conflict through Operation Sindoar, India is set to further enhance its air combat capabilities through the planned acquisition of a substantial number of Meteor air-to-air missiles.

It is an advanced radar-guided, beyond-visual-range air-to-air missile (BVRAAM).

METEOR has been developed by a group of European partners led by MBDA to meet the needs of six European nations: the UK, Germany, Italy, France, Spain, and Sweden.

MBDA is a European multinational corporation specialized in the design, development, and manufacturing of missiles and related systems.

### **5. Iberian lynx:**

**Recent** - a photographer in Spain spotted the world's first-ever white Iberian lynx.

It is a carnivore species endemic to Europe.

**Appearance:** It is the world's most endangered and known for its pointy ears, long legs and leopard-like spotted fur.

This species, like other cat species, is sexually dimorphic, with males being heavier and longer than females.

This lynx is generally nocturnal and its activity patterns are closely synchronized with those of their major prey, the rabbit.

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