



## DAILY DOSE

### **CURRENT AFFAIRS – 01/09/2025**

#### **1. BORDEAUX MIXTURE:**

**Recent** - Planters in the Chikkamagaluru and Hassan districts of Karnataka are gearing up to apply Bordeaux mixture for the third or fourth time this year, following earlier crop damage caused by unseasonal rainfall.

Bordeaux mixture is a bactericide and fungicide made by mixing copper sulfate and lime (calcium hydroxide) with water.

Discovered in the late 19th century in France's Bordeaux region, from which it takes its name, Bordeaux mixture has stood the test of time and continues to be a reliable solution for disease management, particularly in organic farming systems.

This mixture is especially effective in controlling fungal and bacterial diseases in various crops such as fruits, vegetables, and plantation crops.

It has a low aqueous solubility and is not volatile.

#### **2. MIRA STARS:**

**Recent** - the most precise determination of the expansion rate of the universe was made using cool, giant variable stars 'Mira' by the scientists from Inter-University Centre for Astronomy and Astrophysics (IUCAA).

Mira, also known as Omicron Ceti, is a star that remarkably changes its brightness over time, in a regular pattern.

The name, Mira, means "the wonderful" in Latin, and it lived up to that name by becoming the prototype for an entire class of stars known as Mira variables.

With the variability first measured by astronomers in the 17th century, Mira was the first known example of a "variable star"—a star that doesn't shine with a constant brightness.

Mira variables are a type of giant star that go through regular cycles of expanding and contracting.

These cycles cause their brightness to vary in a predictable way, typically over periods ranging from 100 to 1,000 days.

### **3. EXERCISE YUDH KAUSHAL 3.0:**

**Recent** - The Indian Army recently conducted Exercise Yudh Kaushal 3.0 in the high-altitude Kameng region of Arunachal Pradesh.

It was conducted by the Indian Army in the high-altitude Kameng region of Arunachal Pradesh.

The exercise demonstrated an impressive integration of advanced technology, operational innovation, and professional expertise by the troops.

### **4. DHAULIGANGA HYDROELECTRIC PROJECT:**

**Recent** - Nineteen workers and officials of the NHPC were rescued after they were trapped inside the tunnel of the 280 MW Dhauliganga hydroelectric project in Pithoragarh's Dharchula area for almost 22 hours recently.

It is a 280 MW hydropower project located on the Dhauliganga River near Dharchula in the Pithoragarh district of Uttarakhand.

The Dhauliganga River is one of the prominent tributaries of the Alaknanda River, which is a key component of the Ganga River system.

The project construction commenced in 2000 and subsequently entered into commercial operation in 2005.

The project is currently owned by the National Hydroelectric Power Corporation (NHPC).

It is a run-of-river project.

### **5. DIOSCOREA BALAKRISHNANII:**

**Recent** - Researchers from Kerala have identified an edible tuber and named it as *Dioscorea balakrishnanii*.

It is an edible tuber found in the Western Ghats region of Wayanad district of Kerala.

It is a new species of the genus *Dioscorea*.

This yam species is locally known as 'chola kizhangu' among the Kattunayikar tribes of Wayanad. The tubers are edible when cooked and are said to have an excellent flavour

**Habitat:** It is found only in the sholas of evergreen forests.

PRABHA IAS ACADEMY



## DAILY DOSE

### **CURRENT AFFAIRS – 02/09/2025**

#### **1. MULTI-LANE FREE FLOW TOLLING SYSTEM:**

**Recent** - the Indian Highways Management Company Limited (IHMCL), a company promoted by NHAI has signed an agreement with ICICI Bank to implement country's first comprehensive Multi-Lane Free Flow (MLFF) tolling system at Choryasi Fee Plaza in Gujarat on NH-48.

It is a barrier-less tolling system that enables transactions through reading of FASTag and Vehicle Registration Number (VRN) by High performance RFID Readers and ANPR Cameras.

It enables seamless toll collection without stopping vehicles at fee plazas, reducing congestion and travel time leading to enhanced fuel efficiency and lowering emissions.

Implementation of MLFF will also contribute towards improving toll revenue collection and creating a smarter, faster and more efficient National Highway network across the country.

#### **2. MAURITANIA:**

**Recent** - A migrant boat sank off Mauritania's coast earlier recently, leaving at least 49 people dead and around 100 missing.

It is a country in northwest Africa.

It occupies an area of 1,030,000 sq. km.

It is a country of the Sahel region (a belt across Africa between the arid Sahara to the north and the humid savannas to the south).

It borders four other nations: West Sahara, Senegal, Algeria, and Mali. The Atlantic Ocean lies to the west.

Approximately 90% of its landmass is located within the Sahara Desert.

### **3. CLOPIDOGREL:**

**Recent** - Doctors now believe that clopidogrel, a well-known antiplatelet medication, could be more effective than aspirin for long-term prevention of heart attacks—especially in those at high risk.

Clopidogrel is a medication that belongs to the class of antiplatelet agents that prevent blood clots from forming.

It is commonly prescribed to reduce the risk of heart attacks and strokes in people and those with peripheral arterial disease or unstable angina.

Clopidogrel works by blocking the action of platelets, which are blood cells that play a key role in forming blood clots, to reduce the risk of serious cardiovascular events.

### **4. AIR QUALITY LIFE INDEX:**

**Recent** - Air pollution has emerged as India's most severe health threat, reducing the country's average life expectancy by 3.5 years, according to the Air Quality Life Index (AQLI) 2025 report.

It measures particulate air pollution's impact on life expectancy.

Developed by Michael Greenstone and Energy Policy Institute (EPIC) at the University of Chicago, the AQLI quantifies pollution's effects.

The AQLI combines research on long-term air pollution exposure with global particulate pollution measurements.

### **5. SWARNAMUKHI RIVER:**

**Recent** - The Tirupati Urban Development Authority (TUDA) recently announced Operation SWARNA, a massive plan to rescue the River Swarnamukhi from the clutches of land grabbers, revive its flow area and rejuvenate it to ensure sustenance.

It is a river in Andhra Pradesh.

It is an east-flowing river basin having a small catchment area of 3,225 sq.km.

It rises at an elevation of 300 m in the Eastern Ghat ranges near Pakala village in the Chittur district of Andhra Pradesh.

It runs generally in the northeastern direction passing through the famous Tirupati hills before joining into the Bay of Bengal.

Its total length is 130 km.

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## DAILY DOSE

### **CURRENT AFFAIRS – 03/09/2025**

#### **1. PAINTED STORK:**

**Recent** - The National Zoological Park has stepped up surveillance and biosecurity measures after a fresh carcass of a migratory painted stork was found near a pond and another stork was detected sick in the water bird aviary, officials said recently.

It is a large wading bird belonging to the stork family.

It is easily recognized by its heavy yellow beak with a down-curved tip.

Scientific Name: *Mycteria leucocephala*

Distribution: These birds are found across the plains of tropical Asia, from the Indian Subcontinent extending into Southeast Asia, south of the Himalayas.

#### **2. VIKRAM 3201:**

**Recent** - India unveiled its first fully indigenous 32-bit microprocessor, the Vikram 3201, at the Semicon India 2025 conference recently.

It is India's first fully indigenous 32-bit microprocessor.

Designed by the Vikram Sarabhai Space Center (VSSC), Vikram 3201 has been built by the Indian Space Research Organisation's (ISRO) Semiconductor Laboratory (SCL) in Chandigarh.

Unlike processors in everyday devices like smartphones or laptops, this one is designed specifically for rockets and satellites.

It is an upgrade to Vikram 1601, a 16-bit processor that has powered ISRO's launch vehicles since 2009.

The Vikram 3201 marks the first time India has indigenously designed and fabricated a processor of this scale and specification for launch vehicle avionics.

### **3. EQUITY DERIVATIVES:**

**Recent** - SEBI has come out with a new framework for monitoring intraday positions in equity index derivatives, a move aimed at preventing risks caused by large exposures.

Equity derivatives are financial instruments whose value is derived from the movements of a stock or a stock index.

Equity derivatives serve various purposes for investors and traders, including risk management, speculation, and portfolio optimisation.

### **4. BHARATI INITIATIVE:**

**Recent** - the Agricultural and Processed Food Products Export Development Authority (APEDA) launched its new initiative BHARATI.

BHARATI, stands for Bharat's Hub for Agritech, Resilience, Advancement and Incubation for Export Enablement.

It has been designed to empower 100 agri-food and agri-tech startups, accelerate their journey, promote innovation and create new export opportunities for young entrepreneurs.

It is conceived as APEDA's vision to achieve \$50 billion in agri-food exports for its Scheduled Products by 2030,

It is structured to complement and enhance industry and government-led incubation programmes in the agriculture, food and food processing sectors.

### **5. GASTROCHILUS PECHEI:**

**Recent** - researchers discovered a new orchid plant in Vijoynagar, Arunachal Pradesh.

It is a new orchid plant belonging to the *Gastrochilus* genus.

**Habitat:** It flowers in September-October and thrives in moist, evergreen rainforest on small trees near riverbanks.

The *Gastrochilus pechei* was known to bloom only in Myanmar.

Before the Vijaynagar find, 22 species of the *Gastrochilus* genus had been recorded from India. Of these, 15 are from Arunachal Pradesh.

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## DAILY DOSE

### **CURRENT AFFAIRS – 04/09/2025**

#### **1. INCENTIVE SCHEME TO PROMOTE CRITICAL MINERAL RECYCLING:**

**Recent** - The Union Cabinet recently approved a Rs.1,500 crore Incentive Scheme to develop recycling capacity in the country for the separation and production of critical minerals from secondary sources.

It is part of the National Critical Mineral Mission (NCMM), which is aimed at building the domestic capacity of and supply chain resilience in critical minerals.

The Scheme will have a tenure of six years from Financial Year 2025-26 to Financial Year 2030-31.

Total Outlay: Rs.1,500 crore.

#### **2. UNIQUE DISABILITY ID (UDID) CARD:**

**Recent** - Less than 40% of India's projected population of Persons with Disabilities (PwDs) have been issued a Unique Disability ID (UDID) Card, which enables access to government benefits, data show.

A UDID card is a single document of identification for Persons with Disabilities (PwDs).

It is the universal ID that is accepted all across the country.

As per the Rights of Persons with Disabilities (RPwD) Act, 2016, UDID cards can be issued by home district hospitals as well as the hospital where the PwD is taking medical treatment.

The UDID card has a total of 18 digits/characters.

The first 2 characters represent State Code, the next 2 digits for the district code, the next 1 digit for the CMO code, the next 2 digits for disability type, the next 4 digits for year of birth of PwD, the following 6 digits for running number, and the last digit for check sum which is involved for security reasons.

Three types of colour-based UDID Cards are issued based on the severity of the disability:

White Card: When the disability percentage of a PwD is below 40%.

Yellow Card: When the disability percentage of a PwD is above 40% but on or below 80%

Blue Card: When the disability percentage of a PwD is above 80%.

### **3. LAND SUBSIDENCE:**

Recent - Uttarakhand, already battered by natural calamities including cloudbursts, flash floods, and landslides across its mountainous regions, is now facing a new and terrifying phenomenon: widespread land subsidence in Chamoli's Nanda Nagar.

Land subsidence is a gradual settling or sudden sinking of the Earth's surface.

This geotechnical phenomenon occurs when the ground loses its ability to support the weight above it, leading to a downward shift.

### **4. KARAM PUJA:**

Recent - The Prime Minister of India wished all fellow countrymen, especially the tribal community on the occasion of Karam Puja.

It is also called Karam and Karam Parab - is one of the most important tribal festivals in India.

It is related to the harvest and a tribute to the Karam tree. (Karam tree symbolises fertility, prosperity and everything that is auspicious).

It is celebrated primarily in Jharkhand, Chhattisgarh, Odisha, Bihar, Madhya Pradesh, West Bengal, and Assam.

It is popular especially among the Munda, Ho, Oraon, Baiga, Kharia, and Santhal peoples.

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## DAILY DOSE

### **CURRENT AFFAIRS – 05/09/2025**

#### **1. PARTICULARLY VULNERABLE TRIBAL GROUPS:**

**Recent** - The Ministry of Tribal Affairs requested the Registrar General and Census Commissioner of India (RGI) to consider enumerating particularly vulnerable tribal groups (PVTGs) separately in the upcoming Census.

PVTGs are a sub-category of Scheduled Tribes (STs) and are more vulnerable among the tribal groups in India.

The criteria for identifying Particularly Vulnerable Tribal Groups are: A declining or stagnant population, Geographical isolation, Use of pre-agrarian practices (such as hunting and gathering), Economic backwardness and relatively low literacy.

This category was created based on the recommendations of the Dhebar Commission (1960-61) – led by former Member of Parliament U N Dhebar.

At present there are 75 tribal groups considered as PVTGs and they are currently spread across 18 states, and the Union Territory of Andaman and Nicobar Islands.

#### **2. ACANTHAMOEBA:**

**Recent** - it is revealed that Acanthamoeba is more widespread in Kerala's waterbodies than thought earlier.

It is a free-living ameba, a kind of one-celled organism that lives in water, soil, and dust.

It can also be found in swimming pools, hot tubs, drinking water systems, humidifiers, and in heating, ventilation, and air conditioning (HVAC) systems.

It can cause serious infections of the brain, skin, eyes, and sinuses.

It can infect parts of the body through cuts or skin wounds or from being inhaled into the lungs or nostrils. It can get into the eyes through contact lens use.

### **3. DEBRIGARH WILDLIFE SANCTUARY:**

**Recent** - Odisha's Debrigarh Wildlife Sanctuary is all set to be declared India's newest tiger reserve.

It is situated in the Bargarh district of Odisha.

It is located near Hirakud Dam (the longest dam in India and the longest earthen dam in the world) on the Mahanadi River.

It was declared a wildlife sanctuary in 1985.

It finds a special mention because of noted freedom fighter Veer Surendra Sai.

### **4. NATIONAL INSTITUTIONAL RANKING FRAMEWORK:**

**Recent** - the union Minister of Education released the National Institutional Ranking Framework (NIRF) 2025.

It was started by the Union Ministry of Human Resource Development (now Ministry of Education) in 2015.

This framework outlines a methodology to rank institutions across the country

Parameters of National Institutional Ranking Framework -

Teaching, learning and resources; Research and professional practice; Graduation outcomes; Outreach and inclusivity; and peer perception.

### **5. SUDAN:**

**Recent** - a landslide buried a remote mountain village in the Darfur region of Sudan.

It is the third largest country in Africa.

Bordering Countries: South Sudan, Ethiopia, Eritrea, Egypt, Libya, Chad, and Central African Republic.

It borders the Sahara on the north and extends southward to the forests of West Africa and the Congo River basin.

It also has a significant coastline along the Red Sea.

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## DAILY DOSE

### **CURRENT AFFAIRS – 06/09/2025**

#### **1. Sample Registration Survey Statistical Report:**

**Recent** - The Sample Registration System (SRS) Statistical Report 2023 reveals that seniors make up 9.7 per cent of the population, up from 8.6 per cent in 2011.

It is carried out by the Office of the Registrar General & Census Commissioner, India (ORGI).

It provides the fertility and mortality indicators, also includes data on crude birth rate, crude death rate and infant mortality rates.

#### **2. HealthAI Global Regulatory Network:**

**Recent** - India joined HealthAI Global Regulatory Network (GRN) to strengthen oversight of AI in healthcare.

It is a Geneva-based, independent nonprofit organization that promotes equitable access to AI-powered health innovations.

It is a global network of health regulators dedicated to the safe and effective use of artificial intelligence (AI) in healthcare.

It aims to build trust, improve safety and accelerate responsible innovation through shared learning, joint standards and early warnings of emerging risks.

#### **3. P-47 Protein:**

**Recent** - Researchers at the S. N. Bose National Centre for Basic Sciences (SNBNCBS) highlighted protein p47's unexpected ability to act as a "mechanical chaperone".

It is a cofactor protein usually known as a helper for the cellular machine p97 (It is a powerhouse involved in moving and degrading proteins).

It was long thought to be just an assistant known primarily for its role in protein trafficking, degradation, and membrane fusion.

#### **4. Vulture Network Portal:**

**Recent** - an Assam-based foundation developed the Vulture Network portal.

It is a cloud-based portal designed to serve as a comprehensive knowledge and awareness platform on vultures of India.

It is first of its kind in India - to build a network of individuals engaged in saving the large scavenger birds.

It was started by We Foundation India supported by dedicated partners such as the Assam Bird Monitoring Network and other organisations.

#### **5. Seychelles:**

**Recent** - the Indian Navy's First Training Squadron (1TS) comprising INS Tir, INS Shardul and ICGS Sarathi has completed a four-day visit to the Seychelles.

It is an archipelagic island country located in the western Indian Ocean.

It is located to the northeast of Madagascar and east of mainland Africa.

Other major islands near Seychelles include Comoros and Mauritius to the south, and Maldives to the east.

It consists of an archipelago of 115 islands (only 8 are permanently inhabited).

It is composed of two main island groups: the Mahé group which is mountainous granitic islands and a second group are coralline islands.

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## DAILY DOSE

### **CURRENT AFFAIRS – 08/09/2025**

#### **1. Papua New Guinea:**

**Recent** - as part of the 50th Independence Day celebrations of Papua New Guinea, the Indian Navy Band participated in the grand Military Tattoo at Port Moresby.

It is an island nation in Oceania located in southwestern Pacific Ocean.

Its neighbors are: Indonesia to the west; Australia to the south and Solomon Islands to the south-east.

It is bounded by the Pacific Ocean, Bismarck Sea, Solomon Sea, Coral Sea, Torres Strait and Gulf of Papua.

Capital City: Port Moresby.

#### **2. Yedshi Ramling Ghat Wildlife Sanctuary:**

**Recent** - A young male tiger recently travelled 450 km from Vidarbha to make his home in Yedshi Ramling Ghat Wildlife Sanctuary, a modest jungle in Maharashtra's that had not seen a big cat settling in decades.

It is located in the Osmanabad District of Maharashtra.

Established on May 23, 1997, the sanctuary spans approximately 22.38 sq.km.

The sanctuary lies in the Balaghat mountain range of the Sahyadri hills.

A significant attraction within the sanctuary is the ancient Ramling Temple dedicated to Lord Shiva.

Nearby, there's a waterfall and a cave associated with local legends involving figures from the Ramayana, such as Ravana and Jatayu.

**Vegetation:** The sanctuary features South Deccan Plateau dry deciduous forests and thorny scrublands.

### **3. Missile Technology Control Regime (MTCR):**

**Recent** - U.S. President Donald Trump is expected to unilaterally reinterpret the Missile Technology Control Regime (MTCR) agreement it signed in 1987 to sell sophisticated "Reaper" style and other advanced military drones abroad, according to U.S. officials.

It is an intergovernmental organization whose members implement voluntary export controls on missiles capable of delivering nuclear, chemical, or biological weapons, as well as related technology.

It was founded in 1987 by Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States to control the spread of nuclear-capable missiles and the technology used in their production.

In 1993, the group broadened its focus to include chemical and biological weapons-capable missiles.

There are currently 35 countries that are members (Partners) of the MTCR. India became the 35th member of the MTCR on 27 June 2016.

### **4. WHO Model Lists of Essential Medicines:**

**Recent** - the World Health Organization (WHO) released updated editions of its Model Lists of Essential Medicines (EML), adding new treatments for various types of cancer, diabetes, and obesity associated with comorbidities.

It acts like a register of minimum medicine needs for every health-care system.

It is updated every two years by the Expert Committee on Selection and Use of Essential Medicines.

### **5. Pavagadh Kalika Mata Temple:**

**Recent** - Six persons were killed on Saturday after the cable wire of a ropeway meant for material transport at the Kalika Mata temple snapped,

causing the cable car to crash to the ground in the Pavagadh area of Gujarat's Panchmahal district.

It is a Hindu temple complex and pilgrim centre at the summit of Pavagadh Hill in Panchmahal District, Gujarat.

The presiding deity is Maa Kali (Kalika Mata), a form of Goddess Durga/Shakti.

It is one of the 51 Shakti Peethas in India.

It lies at an elevation of 762 meters above sea level. It is located on a cliff surrounded by dense forest cover.

The temple is believed to be over 1,000 years old, with its origins tracing back to the 10th–11th centuries. Mahakali's idol was installed here in the 12th century.

It saw patronage and renovations under the Solanki Rajput dynasty, who ruled large parts of Gujarat.



## DAILY DOSE

### CURRENT AFFAIRS – 09/09/2025

#### 1. Combined Commanders' Conference (CCC) 2025:

**Recent** - The Prime Minister will inaugurate the Combined Commanders' Conference (CCC) 2025 in Kolkata, West Bengal.

The CCC is the apex-level brainstorming forum of the Armed Forces, bringing together the nation's top civil and military leadership to exchange views at the conceptual and strategic levels.

CCC 2025 will be held in Kolkata, West Bengal, from September 15 to 17, 2025.

The central theme for this year's conference is "Year of Reforms – Transforming for the Future".

The CCC 2025 will focus on Reforms, Transformation & Change and Operational Preparedness.

#### 2. Evia Island:

**Recent** - A magnitude 5.2 earthquake shook central Greece recently, with its epicenter located near Athens on Evia Island.

Evia, or Euboea, is the second largest island in Greece, second only to Crete, and third in Europe (second only to Cyprus).

The area of the island is a little more than 3500 sq.km.

It is located in Central Greece, in the Aegean Sea.

The island is separated from the Greek mainland by the Euboean strait.

It is often referred to as a “mainland island” due to its close proximity to Athens, with many points of connection between the two.

### **3. United Kingdom-India Infrastructure Financing Bridge (UKIIFB):**

**Recent** - The U.K. India Infrastructure Financing Bridge (UKIIFB) recently marked its first anniversary by launching a report in the City of London.

It is a collaborative initiative led jointly by NITI Aayog and the City of London.

It aims to channel sustainable infrastructure investments into India, leveraging the UK's expertise in managing and structuring large-scale projects.

The UKIIFB, agreed as part of the UK Economic and Financial Dialogue (EFD), was operationalised with a steering committee made up of representatives from the UK government's Treasury department, construction giants, and engineering and legal firms operating across both countries to drive forward the aim of getting mega infrastructure projects bid-ready.

### **4. Unified Real Estate (Regulation and Development) Act, 2016 (RERA) Portal:**

**Recent** - The Minister of Housing and Urban Affairs recently launched the Unified Real Estate (Regulation and Development) Act, 2016 (RERA) portal —rera.mohua.gov.in— at the 5th meeting of the Central Advisory Council in New Delhi.

RERA, introduced in 2016, was designed to tackle project delays and protect homebuyers.

Until now, each state and union territory had its own RERA website.

The primary purpose of the Unified RERA Portal is to consolidate data from various state RERA portals into a single, integrated platform—making information such as approvals, project statuses, timelines, and developer histories easily accessible to homebuyers and regulators alike.

It was launched by the Ministry of Housing and Urban Affairs.

#### 5. Nilgiri Tea:

Recent - Nilgiri tea growers are facing a persistent cost price crisis of green tea leaves which is continuously haunting small growers in the region.

Nilgiri Tea is generally described as intensely aromatic, fragrant and flavored tea grown in the southern portion of the Western Ghats.

It has been named after the Nilgiris or Blue Mountains where it is grown.

It is mainly cultivated in Nilgiri district of Tamil Nadu and a small portion in Kerala and Karnataka.

It was recognized with the Geographical Indication Tag in 2008.

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## DAILY DOSE

### CURRENT AFFAIRS – 10/09/2025

#### 1. Avalanche:

**Recent** - Three Army personnel, including two Agniveers, lost their lives recently in a major avalanche at the Siachen base camp in Ladakh.

An avalanche is a large amount of snow that quickly moves down a slope.

An avalanche can be deadly because it will bury or sweep away anything in its path.

Large amounts of sliding rocks, earth, or other materials may also be called avalanches. But these are often known as landslides.

#### 2. Pallas's Cat:

**Recent** - A wildlife survey conducted in Arunachal Pradesh has brought out first-ever photographic evidence of the elusive Pallas's cat in the state.

The Pallas' s cat (*Otocolobus manul*) is a small wild cat well camouflaged and adapted to the cold continental climate in its native range.

It was named Pallas' s cat after Peter Simon Pallas, who first described it in 1776 based on specimens collected near Lake Baikal, Russia.

They are primarily found in Central Asia, with their range extending to western Iran, Mongolia, China, Russia (on the border of Mongolia and China), Kazakhstan, and Kyrgyzstan.

#### 3. Iskander-K:

**Recent** - Russia struck Ukraine's Cabinet building with an Iskander-K missile recently.

It is a Russian-made mobile short-range cruise missile launcher vehicle based on an 8x8 military truck chassis.

The design of the Iskander-K is very similar to the Iskander-M, which is a ballistic missile launcher vehicle.

The Iskander-K, also referred to as SSC-8, entered service with the Russian Armed Forces in February 2017.

It is designed to perform tactical-operational strikes.

#### **4. Swachh Vayu Survekshan (SVS) 2025:**

**Recent** - Indore, India's cleanest city, topped the 'Swachh Vayu Survekshan 2025' for air pollution mitigation.

SVS is an annual survey conducted by the Ministry of Environment, Forest and Climate Change (MoEFCC) under the National Clean Air Programme (NCAP).

It is structured as a rigorous, multi-tiered evaluation mechanism, founded on comprehensive due diligence under the NCAP.

The programme is conducted annually for 130 cities under NCAP to promote healthy competition among cities and encourage them to take expeditious actions to improve air quality.

#### **5. Cross River Gorilla:**

**Recent** - Deep within the Nigeria-Cameroon border's misty mountains, the critically endangered Cross River gorilla struggles for survival, with fewer than 300 individuals remaining.

It is a subspecies of the western gorilla.

Scientific Name: *Gorilla gorilla diehli*

With fewer than 300 individuals estimated to exist in the wild, it is the most endangered of the gorilla subspecies.

They are the most endangered primate in Africa.

Cross River gorillas are scattered in at least 11 groups across the rugged, hilly terrain that straddles the Nigeria-Cameroon border on the African continent, known as the Cross-Sanaga-Bioko Coast Forest ecoregion.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 11/09/2025

#### 1. Adi Sanskriti Platform:

**Recent** - the Ministry of Tribal Affairs unveiled the Beta Version of Adi Sanskriti at Bharat Mandapam, New Delhi, during the National Conference on Adi Karmayogi Abhiyan.

It is a pioneering digital learning platform for tribal artforms, preserving heritage, enabling livelihoods, and connecting India's tribal communities with the world.

It is envisioned as the world's first Digital University to preserve and promote the culture and traditional knowledge of tribal communities.

It functions as an online marketplace for the world to access products made by tribal artisans.

#### 2. Langkhun Festival:

**Recent** - Tiwa tribesmen celebrated the Langkhun festival in Umsowai village in Karbi Anglong district of Assam.

It is a socio-religious event celebrated by the Tiwa community in Assam.

During this festival the people pray for a good crop in the upcoming Rabi crop season.

The members of the community make offerings and pray to the gods for a good harvest during this festival.

Cultural events including music and dance are also part of the event.

**Significance:** The Tiwa Langkhun festival has great cultural significance and the community prays for a good harvest.

### **3. Aspergillus Section Nigri:**

**Recent** - Agharkar Research Institute in Pune, an autonomous institute of the Department of Science & Technology, recently identified two novel species of Aspergillus section Nigri (commonly known as black aspergillus), Aspergillus dhakephalkarii and Aspergillus patriciawiltshireae.

Aspergillus section Nigri comprises filamentous fungi.

It is a taxonomic group within the genus Aspergillus, characterized by its black-pigmented conidia (spores) and diverse metabolic capabilities.

Their colonies usually appear black due to pigmented conidia.

This section includes species that are significant in food spoilage, industrial applications, and human health, particularly in relation to mycotoxin p.

### **4. Permafrost:**

**Recent** - In a groundbreaking discovery in Siberia, scientists recently uncovered a 44,000-year-old wolf, nearly perfectly preserved in permafrost.

Permafrost is any ground that remains completely frozen—32°F (0°C) or colder—for at least two years straight.

These permanently frozen grounds are most common in regions with high mountains and in Earth's higher latitudes—near the North and South Poles.

Permafrost can be found on land and below the ocean floor.

Permafrost thickness can range from one meter (about three feet) to more than 1,000 meters (about 3,281 feet), covering entire regions, such as the Arctic tundra, or a single, isolated spot, such as a mountaintop of alpine permafrost.

### **5. National Cooperative Exports Limited:**

**Recent** - the National Co-operative Exports Limited (NCEL) and the Agricultural and Processed Food Products Export Development Authority (APEDA) signed a Memorandum of Understanding (MoU) which is aimed at elevating India's cooperative-led agricultural export.

It is set up by the Ministry of Cooperation under the Multi-State Cooperative Societies (MSCS) Act, 2002.

It is an umbrella organization to give thrust to exports from the cooperative sector.

Aim: It aims to enhance the global competitiveness of cooperative-produced goods and services.

Promoters of NCEL: Major cooperative institutions namely; AMUL (GCMMF), IFFCO, KRIBHCO, NAFED, and NCDC.

Member eligibility: All cooperative societies from the level of primary to apex that are interested in exports are eligible to become members.

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## DAILY DOSE

### CURRENT AFFAIRS – 12/09/2025

#### 1. All India Debt and Investment Survey (AIDIS) & Situation Assessment Survey:

**Recent** - The All India Debt and Investment Survey (AIDIS) and the Situation Assessment Survey (SAS) of Agricultural Households are scheduled to be conducted from July 2026 to June 2027.

The AIDIS is one of India's most significant surveys on household finance. Its origins go back to the All India Rural Credit Survey (1951-52), later expanded to cover both debt and investment in 1961-62.

Since then, the NSO has conducted AIDIS roughly once every decade, most recently in the 77th Round (2019) at the request of the Reserve Bank of India (RBI).

The survey provides critical data on household indebtedness and asset ownership across both rural and urban areas.

#### 2. National Forest Martyrs Day 2025:

**Recent** - Tributes were paid to Forest Department personnel who died while engaged in conservation works during the National Forest Martyrs Day, observed recently.

It is observed annually on September 11th in India to honor the sacrifices of those who have laid down their lives in defense of the country's forests and wildlife.

The day honours protective environmentalists and personnel of the forest who have experienced certain risks in the process of conservation of natural resources.

### **3. Fast Track Immigration-Trusted Traveller Programme:**

**Recent** - the Union Home Minister launched the Fast Track Immigration-Trusted Traveller Programme (FTI-TTP) at 5 more airports.

It is an initiative to speed up the Immigration clearance process for eligible persons from the following categories: Indian Nationals and Foreign Nationals holding OCI Cards.

It was first launched at Delhi's IGI Airport in 2024.

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**Purpose:** It has been introduced with the purpose of facilitating international mobility with faster, smoother and secure immigration clearances.

### **4. Cyrtodactylus Vanarakshaka:**

**Recent** - a new species of bent-toed gecko, recorded from the montane forests of central Assam.

It is a bent-toed gecko belonging to the *Cyrtodactylus khasiensis* group.

It was spotted from the forested slopes of Dima Hasao's Jatinga, a unique ecological transition zone within the Barail Hills.

It has been named after the Assam Forest Department.

The word "vanarakshaka," derived from the Sanskrit words "vana" (forest) and "rakshaka" (protector), refers to the Assam Forest Department.

### **5. Decentralised Finance (DeFi):**

**Recent** - There has been heightened concern in recent days about the misuse of Decentralised Finance (DeFi) for illicit activities, notably by terrorist groups seeking to raise finances, build infrastructure, or expand their networks.

DeFi is an emerging financial system using blockchain and cryptocurrencies to enable direct transactions between individuals and businesses.

DeFi platforms use a combination of existing blockchains, stablecoins, software, and hardware.

It offers financial products and services enabling saving, investing, lending, remittance, insurance contracts, etc., without the intermediation of traditional financial institutions like banking.

The transactions take place through smart contracts, open protocols, and decentralised applications (D-Apps), allowing direct peer-to-peer transactions without intermediation.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 13/09/2025

#### 1. INS ARAVALI:

**Recent** - the Indian Navy commissioned its latest Naval Base, INS Aravali, at Gurugram.

It is named after the Aravali mountain range.

It is designed to strengthen the Navy's information and communication infrastructure.

It is located at Gurugram, Haryana.

Motto: It is guided by the motto 'Maritime Security through Collaboration'.

#### 2. MURIKOOTI PACHA:

**Recent** - Researchers at the Jawaharlal Nehru Tropical Botanic Garden & Research Institute (JNTBGR), Palode, have tapped into the wound-healing properties of the red ivy plant, known locally as "murikooti pacha".

Murikooti Pacha or Red Ivy plant (*Strobilanthes alternate*), belongs to the Acanthaceae family.

Other names: Red Flame Ivy, Purple Waffle Plant.

It is native to tropical Asia, particularly Java.

It is widely cultivated in India, Indonesia, China, and Japan.

It thrives in moist, shaded environments and is commonly found in gardens and as ground cover.

#### 3. BORDER WING HOME GUARDS:

**Recent** - The Union Ministry of Home Affairs (MHA) is contemplating a plan to raise Border Wing Home Guards (BWHG) along the border with China, similar to the guards on the India-Pakistan border.

It acts as ancillaries to the Army and other border forces during emergencies.

Home Guards are raised under the Home Guards Act and Rules of the States/Union Territories.

There are seven States authorised to have BWHGs: Meghalaya, Tripura, Assam, West Bengal, Punjab, Rajasthan, and Gujarat.

#### **4. Doctrine of Contributory Negligence:**

**Recent** - The Andhra Pradesh High Court recently held that the doctrine of contributory negligence does not apply to criminal actions, and a driver who commits an accident by driving rashly and negligently, which leads to the death of a person, is liable under Section 304A of IPC, even if there has been a degree of negligence on part of the victim.

It operates on the principle that individuals have a duty to exercise reasonable care for their own safety and well-being.

When someone fails to meet this duty and their actions or omissions contribute to their own injury or damages, they may be considered partially at fault for the harm suffered.

Contributory negligence occurs when the plaintiff, through their own lack of care, contributes to the damage resulting from the defendant's negligence or wrongful conduct.

#### **5. Scarlet Dragonfly:**

**Recent** - In a recent discovery, a rare scarlet dragonfly has been spotted in the valleys of Munnar, somewhere in Kerala's Western Ghats.

It is a species of dragonfly in the family Libellulidae.

Scientific Name: Crocothemis erythraea

Its common names include broad scarlet, common scarlet-darter, and scarlet darter.

It is a common species in southern Europe and throughout Africa.

It also occurs across western Asia as far as southern China.

Sometimes, these dragonflies travel far from their usual homes.

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## DAILY DOSE

### CURRENT AFFAIRS – 15/09/2025

#### 1. Dongsha Islands:

**Recent** - Taiwan's Coast Guard Administration (CGA) confirmed recently that it had dispatched vessels to repel both a Chinese coast guard ship and a Chinese fishing boat operating near Dongsha Island.

The Dongsha Islands, also known as the Pratas Islands, are a small group of three islands located in the northern part of the South China Sea.

It lies approximately 445 km southwest of Kaohsiung, Taiwan, and 320 km southeast of Hong Kong.

The Dongsha Islands are governed by Taiwan. There are no permanent residents. But Taiwanese marines are stationed there.

These islands are characterized by a circular coral atoll structure.

#### 2. Garra nambashiensis:

**Recent** - Researchers recently discovered a new species of freshwater fish, *Garra nambashiensis*, in Manipur.

It is a new species of freshwater fish which belongs to the Labeonine family.

It was discovered in Taretlok, a tributary of the Chindwin River, near Nambashi Valley in Manipur's Kamjong district.

It was collected from “swift-flowing riffles (shallow sections of a river or stream) with algae-covered gravel beds and mixed substrate comprising cobbles, boulders, pebbles, sand, fine silt, and coarse sediments.

#### 3. Pink Tax:

**Recent** - While there are no specific laws in India to address the issue of Pink Tax, the National Consumer Disputes Redressal Commission ruled that companies must follow fair pricing policies and avoid gender-based price discrimination.

The Pink tax is neither a real tax nor is it a government-imposed fee.

It is a term used to describe the extra cost that some companies charge for products marketed to women compared to similar products marketed to men.

This means women might end up spending more money for the same product that men get for less.

When companies charge more for pink (female) products compared to blue (male) versions, the extra revenue does not go to the government but benefits the companies themselves.

#### **4. Koala:**

**Recent** - Australia approved the world's first vaccine to save koalas from Chlamydia.

Koala bear (*Phascolarctos cinereus*) is an arboreal herbivorous marsupial native to Australia.

It is the only extant representative of the family Phascolarctidae and its closest living relatives are the wombats.

Koalas are asocial animals, congregating only during the breeding season.

#### **5. Ho Tribe:**

**Recent** - adivasis from the Ho tribe staged a protest in Jharkhand's West Singhbhum district against district administration for interfering in their traditional self-governance system called Manki- Munda system.

The Ho or Kolha people are an Austroasiatic Munda ethnic group of India.

They call themselves the Ho, Hodoko and Horo, which mean 'human' in their own language.

**Distribution:** They are mostly concentrated in the Kolhan region of Jharkhand, Odisha, West Bengal and Bihar.

Language: Ho people speak the Ho language, an Austroasiatic language closely related to Mundari.

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## DAILY DOSE

### CURRENT AFFAIRS – 16/09/2025

#### 1. Red Fort:

**Recent** - A 'black crust' is forming on the walls of the Red Fort due to high levels of air pollution, a recent study has found.

The Red Fort, or Lal Qila, is a Mughal fort located in Delhi, India.

Formerly known as Quila-e-Mubarak, or the Blessed Fort, the Red Fort lies along the banks of the river Yamuna, whose waters fed the moats surrounding the fort.

It was built as the palace fort of Shahjahanabad – the new capital of the fifth Mughal Emperor of India, Shah Jahan.

Shah Jahan constructed it in 1639. It was designed by architects Ustad Ahmad Lahauri and Ustad Hamid.

The fort was designated a UNESCO World Heritage site in 2007.

#### 2. Exercise Pacific Reach 2025:

**Recent** - Indian Navy's latest indigenously designed and constructed Diving Support Vessel (DSV) INS Nistar is participating in Exercise Pacific Reach 2025 in Singapore.

It is a multinational conducted in Singapore.

It is a biennial exercise which will witness participation of more than 40 nations.

The exercise is mainly conducted in two phases, including the harbour and sea phases.

**Focus of the Exercise:** The harbour phase will involve in-depth discussions on submarine rescue systems, Subject Matter Expert Exchanges (SMEE), a medical symposium and cross-deck visits between the participating nations.

### **3. Carlsberg Ridge:**

**Recent** - The government recently signed a contract with the International Seabed Authority to explore polymetallic sulphur nodules in the Carlsberg Ridge.

It is a mid-oceanic ridge (a divergent plate boundary) located in the Indian Ocean.

The ridge extends from the triple junction of the African, Indian, and Australian tectonic plates (where it connects to the Mid-Indian Ridge) northwest to the Gulf of Aden.

The ridge separates the Arabian Sea to the northeast from the Somali Basin to the southwest.

It marks the boundary between the Somali Plate and the Indian Plate.

### **4. Red Coral Kukri Snake:**

**Recent** - a rare Red Coral Kukri Snake species, last reported in 1936, was recently found trapped in a net in a village field near Pilibhit Tiger Reserve.

It is identified as *Oligodon kheriensis*.

It is one of the rarest non venomous snake species.

This nocturnal and fossorial snake is specialized with curved teeth like kukri (Nepalian Knife). Hence, they are called “Kukri”.

### **5. Centre for Cellular and Molecular Biology (CCMB):**

**Recent** - Scientists at CSIR-Centre for Cellular and Molecular Biology (CCMB) recently discovered how white blood cells can adapt their internal skeletons to combat pathogens.

It is India's premier research organization in frontier areas of modern biology.

The objectives of the Centre are to conduct high-quality basic research and training in frontier areas of modern biology, and promote centralized

national facilities for new and modern techniques in the interdisciplinary areas of biology.

Located in Hyderabad, Telangana, CCMB is a constituent laboratory of the Council of Scientific and Industrial Research (CSIR), a renowned national organization under the Ministry of Science and Technology, Government of India.

Established in 1977, CCMB has emerged as a global leader in cellular and molecular research and is known for its contributions to understanding the molecular mechanisms that govern biological systems.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 17/09/2025

#### 1. Frontier 50 Initiative:

**Recent** - the NITI Aayog launched the Frontier 50 Initiative to amplify grassroots adoption of technology and scale impact creation.

It will support 50 Aspirational Districts / Blocks to pick use cases from the Repository and deploy those frontier technologies that have potential to accelerate saturation of services across ADP/ABP themes.

Launched by: NITI Aayog under its Frontier Tech Hub.

The Frontier Tech Repository showcases 200+ impact stories from across India in four sectors – Agriculture, Healthcare, Education, and National Security.

It brings to life how states and startups are deploying technology with the purpose to transform livelihoods.

#### 2. Almatti Dam:

**Recent** - To set the stage for the implementation of the languishing Upper Krishna Project (UKP) phase III, the Karnataka Cabinet recently gave clearance for the acquisition of 1,33,867 lakh acres of land to facilitate the increase of Almatti dam's height from the present 519.16 metres to 524.256 metres.

It is a hydroelectric project on the Krishna River in North Karnataka.

The dam was completed in July 2005.

It was built with the primary objectives of supplying irrigation and potable water to adjacent regions, generating hydroelectric energy, and managing flood risks in the area.

The annual electric output of the dam is 713,000,000 kilowatts (KW).

### **3. WTO Agreement on Fisheries Subsidies:**

**Recent** - the World Trade Organisation's agreement on Fisheries Subsidies came into force.

The Agreement on Fisheries Subsidies is the WTO's first multilateral agreement with environmental sustainability at its core.

It prohibits government support to illegal fishing activities and overexploitation of stocks, contributing to the protection of marine life.

It was adopted at the 12th Ministerial Conference (MC12) in 2022, in Geneva.

### **4. Hand, Foot, and Mouth Disease:**

**Recent** - A viral infection known as Hand, Foot, and Mouth Disease (HFMD) is spreading rapidly among children across Delhi and neighbouring Haryana, prompting health experts and schools to issue advisories.

It is a very contagious illness caused by a virus.

The disease gets its name from the blister-like rash that forms on your child's hands and feet and painful sores that develop in their mouth.

The rash can actually appear anywhere on their body, including their chest, back, arms, legs, genitals, and buttocks.

Infants and children younger than 5 are most likely to get HFMD. It is extremely uncommon in adults; however, it is still a possibility.

### **5. Saunders's Tern:**

**Recent** - Saunders's Tern was sighted at Adyar Estuary in Chennai.

Saunders's Tern

Saunders's terns (*Sternula saundersi*) are a small, ground-nesting marine bird species.

It is a species of bird in the family Laridae.

It is sparsely resident along the shores of the north-western Indian Ocean.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 18/09/2025

#### 1. Hathei Chilli:

**Recent** - 14th Sirarakhong Hathei Chilli Festival was inaugurated in Manipur to promote GI-Tagged Hathei Chilli.

It is commonly known as the Sirarakhong chilly.

It thrives well only in the climatic condition of the Sirarakhong village, which is situated about 66 km from Imphal, Manipur.

This indigenous chilli variety is cultivated under the jhum system on the slopes.

This chilli received the Geographical Indication Tag (GI) in 2021.

#### 2. Global Innovation Index:

**Recent** - According to the World Intellectual Property Organisation's (WIPO) Global Innovation Index (GII) 2025, R&D growth fell to 2.9 per cent in 2024 and is projected to drop further to 2.3 per cent in 2025.

It is a ranking of countries as per their success and capacity in innovation.

It was first launched in 2007, and has become the leading global benchmark for measuring and comparing innovation performance.

It is recognized by the UN General Assembly as an authoritative reference for Science, Technology and Innovation (STI) policies.

It is published yearly by the World Intellectual Property Organization (WIPO).

#### 3. Draft Civil Drone (Promotion and Regulation Bill) 2025:

**Recent** - The Ministry of Civil Aviation recently made public the Draft Civil Drone (Promotion and Regulation) Bill, 2025, and invited feedback from stakeholders and citizens.

It proposed provisions such as mandatory registration, safety and security features, as well as insurance, amongst other requirements for unmanned aircraft systems' (UASs) operations in the country.

#### **4. PM MITRA Parks:**

**Recent** - The Prime Minister recently laid the foundation stone of the country's first Pradhan Mantri Mega Integrated Textile Region and Apparel (PM MITRA) Park in Madhya Pradesh's Dhar District.

Pradhan Mantri Mega Integrated Textile Region and Apparel (PM MITRA) is a mega textile hub that brings every step of textile production, like spinning, weaving, dyeing, printing, and garment-making, into one single place.

Each park covers a large area (about 1,000 acres or more) and acts as a complete ecosystem for textile manufacture.

MITRA parks can be either Greenfield or Brownfield.

The scheme is inspired by the vision "Farm to Fibre to Factory to Fashion to Foreign" and aims to make Indian textiles cheaper, faster to market, and of higher quality.

Nodal Ministry: Ministry of Textiles.

#### **5. National Tiger Conservation Authority (NTCA):**

**Recent** - The Supreme Court recently sought responses from the Centre, the National Tiger Conservation Authority (NTCA), and others on a PIL seeking a CBI probe into an alleged organised tiger-poaching and illegal wildlife-trade racket operating in states like Maharashtra and Madhya Pradesh.

It is a statutory body under the Ministry of Environment, Forest, and Climate Change (MoEFCC).

It was established in 2006 under the Wildlife (Protection) Act 1972 (WPA 1972).

Minister in charge of MoEFCC (as Chairperson), Minister of State in MoEFCC (as Vice-Chairperson).

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 19/09/2025

#### 1. Moran Community:

**Recent** – The Moran community in Assam has ramped up the pressure in their demand for Scheduled Tribe status.

The Moran is a lesser known community of Assam and mainly concentrated in the Tinsukia district and also residing in Arunachal Pradesh.

It is said that prior to the advent of the Ahoms, the Morans had their own independent kingdom at Bengmara, which is the present day Tinsukia.

**Language:** They had a common dialect of their own which was derived from the Bodo group of Tibeto-Burman linguistic family. Later they started using Assamese.

#### 2. Strategic Lawsuits Against Public Participation (SLAPP):

**Recent** - Over a year before a civil court imposed an ex-parte injunction on journalists from publishing or circulating allegedly unverified and defamatory material against Adani Enterprises, the Supreme Court had been worried about courts recognising 'SLAPP' suits across jurisdictions.

SLAPPs are meritless suits solely used to drag the opposing party through protracted litigation to dry up their resources.

These lawsuits are typically filed by influential and wealthy individuals or businesses against people who criticise them, conduct investigations, communicate, or express opinions on matters of public interest.

#### 3. Reinforcement Learning (RL):

**Recent** – In a paper published recently, the DeepSeek-AI team reported that their model, called just R1, could develop new forms of reasoning using reinforcement learning, a method of trial and error guided only by rewards for correct answers.

It is defined as a sub-field of machine learning (ML) that enables AI-based systems to take actions in a dynamic environment through trial and error methods to maximize the collective rewards based on the feedback generated for respective actions.

In RL, an autonomous agent learns to perform a task by trial and error in the absence of any guidance from a human user.

RL algorithms use a reward-and-punishment paradigm as they process data.

#### **4. NE-SPARKS Programme:**

**Recent** - the union Minister of Development of North Eastern Region and Communications virtually interacted with school students from the North Eastern states who visited ISRO under NE-SPARKS program.

The 'North East Students' Programme for Awareness, Reach, and Knowledge on Space' (NE-SPARKS), is a flagship initiative supported by the Ministry of Development of North-East Region (MDoNER ) in collaboration with 8 North Eastern States.

It is a pioneering initiative aimed at igniting curiosity and fostering awareness about space science and technology among students from the North Eastern Region (NER) of India.

#### **5. FAO's Technical Cooperation Programme:**

**Recent** - the Ministry of Fisheries, Animal Husbandry and Dairying has signed a Technical Cooperation Programme (TCP) agreement with the Food and Agriculture Organization (FAO) to strengthen Blue Port infrastructure in India.

It was created to enable FAO to make its know-how and technical expertise available to member countries upon request.

Purpose: To help countries improve their population's food security and alleviate poverty with lasting impact.

Goal: To assist in solving technical problems in crop production, livestock, fisheries and aquaculture, forestry, nutrition, food safety, rural development and other areas identified in the Country Programming Framework (CPF).

Funding: The Technical Cooperation Programme is part of FAO's Regular Programme budget. This means that TCP funds come directly from the dues paid by FAO members.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 20/09/2025

#### 1. Fentanyl:

**Recent** - The United States recently revoked and denied visas to “certain business executives and corporate leadership” from India for their alleged involvement in trafficking fentanyl precursor chemicals.

It is a potent synthetic opioid like morphine or heroin.

It is both a prescribed drug and a drug that is at times made and used illegally.

It is made entirely in laboratories, with no natural ingredients.

It was developed as a prescription medicine for treating severe pain, such as pain after surgery.

#### 2. Petroleum and Natural Gas Regulatory Board (PNGRB):

**Recent** - The Petroleum and Natural Gas Regulatory Board (PNGRB) recently invited stakeholder and consumer comments on an LPG interoperability framework that would allow households to draw refills from distributors of other PSU oil companies, similar to mobile number portability.

It is a statutory body established under the Petroleum and Natural Gas Regulatory Board Act 2006.

**Objective:** To protect the interests of consumers and entities engaged in specified activities relating to petroleum, petroleum products, and natural gas and to promote competitive markets and for matters connected therewith or incidental thereto.

### **3. Machu Picchu:**

**Recent** - many tourists were stranded near Peru's ancient Inca citadel of Machu Picchu after a passenger train service was suspended due to a protest.

It is a 15th-century Inca site of Peru.

Location: It is located 80 km northwest of Cuzco, Peru, in the Cordillera de Vilcabamba of the Andes Mountains.

It is saddled between two peaks-Machu Picchu (“Old Peak”) and Huayna Picchu (“New Peak”)—at an elevation of 7,710 feet.

It is believed to have been built by Pachacuti Inca Yupanqui, the ninth ruler of the Inca, in the mid-1400s.

### **4. Periyar Tiger Reserve (PTR):**

**Recent** - A recent report from the State Finance Inspection wing, operating under the Finance department, has exposed significant financial irregularities at the Periyar Tiger Reserve.

Location: It is named after the Periyar River, is located in the Idukki district of Kerala.

It is set high at Cardamom Hills and Pandalam Hills of the Western Ghats, adjacent to the border with Tamil Nadu.

It surrounds the Periyar Lake, which was created in 1895 by building a dam across the Periyar River.

### **5. National Maritime Heritage Complex (NMHC):**

**Recent** – The Prime Minister will review the progress of the National Maritime Heritage Complex (NMHC) at Lothal in the Ahmedabad district during his one-day visit to the state, officials said recently.

It is a flagship project of the Govt of India to piece together the entire 5000 years of India's maritime history and showcase it under one roof.

The Ministry of Ports, Shipping, and Waterways, under its SagarMala Programme, is developing the NMHC at Lothal, Gujarat.

The location—‘Lothal’—is significant since it is one of the prominent cities of the ancient Indus Valley Civilization (IVC) dating back to 2400 BC, located 76 km from Ahmedabad in Gujarat.

It is the only port town of the IVC.

Archaeological excavations have discovered the oldest man-made dockyard, over 5000 years old, in Lothal.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 22/09/2025

#### 1. Yuan Wang 5:

**Recent** - China's spy ship Yuan Wang 5 has returned to the maritime neighbourhood of India, three years after it had docked at Hambantota Port of Sri Lanka.

Launched in 2007, Yuan Wang 5 is part of a series of specialized tracking ships built by China for strategic space and missile monitoring.

It is operated by China's People's Liberation Army Strategic Support Force.

It can provide near-real-time situational awareness to the PLA Rocket Force and Navy.

#### 2. Lactifluus khasianus:

**Recent** - Researchers recently discovered a new species of edible mushroom, now formally named *Lactifluus khasianus*—but long known to Khasi tribal communities as “Tit iongnah”.

It is a new species of edible mushroom.

It was discovered in Meghalaya's East Khasi Hills.

It is long known to Khasi tribal communities as “Tit iongnah.”

Belonging to the *Lactifluus* sect. *Gerardii*, the new species, stands out for its chocolate-brown cap, distinctive microscopic features, and genetic markers.

#### 3. Project Vijayak:

**Recent** - the Project Vijayak of the Border Roads Organisation (BRO) celebrated its 15th Raising Day at Kargil, Ladakh.

It was launched by the Border Roads Organisation in 2010.

It drew its name from Operation Vijay, signifying the congruence between the Theatre of Battle and the Project Area of Responsibility.

**Objective:** It was entrusted with the responsibility of providing road connectivity in the areas of Kargil and Zanskar, which previously were under Project Himank.

The project was entrusted with two strategically important lines of communication in the Western Indus Corridor, namely, the Zojila - Kargil - Leh axis and Nimmu - Padam - Darcha axis.

#### **4. Bagram Air Base:**

**Recent** - The Taliban government recently rejected U.S. President Donald Trump's bid to retake Bagram Air Base, four years after America's chaotic withdrawal from Afghanistan left the sprawling military facility in the Taliban hands.

It is the largest air base in Afghanistan, located north of the capital, Kabul.

It has a strategic position at the crossroads of Iran, Pakistan, China's Xinjiang province, and Central Asia.

It was built during the Cold War by the Soviet Union.

The airbase served Soviet operations in the country for decades until they withdrew in the late 1980s.

#### **5. National Archives of India:**

**Recent** - the 50th Golden Jubilee Meeting of the National Committee of Archivists (NCA), organized by the National Archives of India (NAI).

It is the custodian of the records of enduring value of the Government of India.

History of National Archives of India

It was originally established as the Imperial Record Department on 11 March 1891 in Kolkata (Calcutta).

It was transferred to New Delhi in 1911.

The NAI also serves as the nodal agency for implementing the Public Records Act, 1993, and the Public Record Rules, 1997.

A significant portion of its oriental records is in Sanskrit, Persian, Odia, and other languages.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 23/09/2025

#### 1. **Impatiens Selvasinghii:**

**Recent** - Researchers recently found a new plant species named Impatiens selvasinghii in the Kudremukh range of the Western Ghats.

It is a new species of flowering plant.

It was discovered in the Kudremukh range of the Western Ghats in Karnataka at an altitude of 1,630 meters.

It is named after an associate professor of botany at Madras Christian College.

It is one of the smallest flowered balsams from the Western Ghats. Small insects are dependent on this plant.

#### 2. **Adi Yuva Fellowship & Adi Karmayogi Volunteers Programme:**

**Recent** - the Ministry of Tribal Affairs, in partnership with the United Nations in India, launched the Adi Yuva Fellowship and the Adi Karmayogi Volunteers Programme under the Adi Karmayogi Abhiyan.

It is supported by United Nations India.

It is a first-of-its-kind programme designed to empower tribal youth through structured learning, mentorship, and career development.

Under this initiative selected tribal youth will undertake a 12-month paid Fellowship, with a tailored learning plan that balances knowledge-building, on-the-job experience, and reflective practice.

#### 3. **Smog Eating Photocatalytic Coatings:**

**Recent** - The Delhi government will conduct a time-bound study on “smog-eating” photocatalytic coatings in Delhi to combat air pollution.

It is designed to neutralise harmful gases like nitrogen dioxide and volatile hydrocarbons that contribute to toxic air.

It usually uses titanium dioxide as a coating which has advantages for being low-cost and chemically stable.

Titanium dioxide is also known for its compatibility with traditional construction materials.

It has been “demonstrated that  $\text{TiO}_2$ -based photocatalytically active construction materials can be useful for gaseous depollution and environmental cleaning processes.

#### **4. Fishing Cat:**

**Recent** - Marking a significant addition to Rangarh Vishdhari Tiger Reserve's (RVTR) small cat population, forest officials said a Fishing Cat (*Prionailurus viverrinus*) was recently seen on camera for the first time inside the reserve.

It is a stocky and powerfully built medium-sized wild cat species.

Scientific Name: *Prionailurus viverrinus*.

It is native to South and Southeast Asia.

They inhabit the peninsular region of India, Sri Lanka, Malaysia, Thailand, Java, and Pakistan.

#### **5. Tropical Forests Forever Facility:**

**Recent** - Brazil will become the first country to announce an investment in the Tropical Forests Forever Facility.

It is an innovative multilateral global permanent fund dedicated to supporting tropical forest conservation over the long-term.

It is a global initiative led by the Government of Brazil.

The idea for the fund was presented by the Brazilian government in 2023, at COP28 in the United Arab Emirates.

Goal: The TFFF is a blended finance structure that seeks to mobilize US\$125 billion in capital from public and private sector sources.

PRABHA IAS ACADEMY



## DAILY DOSE

### CURRENT AFFAIRS – 24/09/2025

#### 1. Direct Broadcast Network:

**Recent** - the National Centre for Medium Range Weather Forecasting (NCMRWF) signed a Memorandum of Understanding (MoU) with New Space India Limited (NSIL) to establish two Direct Broadcast Network (DBNet) stations in Delhi/NCR and Chennai.

The DBNet is a global operational framework designed for the real-time acquisition of satellite data from Low Earth Orbit (LEO) satellites.

It plays a critical role in Numerical Weather Prediction (NWP) and supports a wide range of applications, including weather forecasting, cyclone monitoring, and climate research.

DBNet stations ensure rapid data availability, hence significantly improving the accuracy and timeliness of weather forecasts and related services.

#### 2. Communication Security Certification Scheme:

**Recent** - the National Centre for Communication Security (NCCS) has designated M/s Compliance International Pvt. Ltd., Noida as a Telecom Security Testing Laboratory (TSTL) for testing IP Routers under the Communication Security Certification (ComSec) Scheme.

It is applicable for Security Certification of all telecommunication equipment for which Mandatory Testing and Certification of Telecom Equipment (MTCTE) applies.

This scheme falls under broader 'Mandatory Testing and Certification of Telecom Equipment (MTCTE)', rules notified in September 2017.

These rules have now been superseded by Telecommunications (Framework to Notify Standards, Conformity Assessment and Certification) Rules, 2025.

### **3. Subansiri River:**

**Recent** - An expert panel of the Union Environment Ministry has recommended environmental clearance for the 2,220 MW Oju hydroelectric project proposed on the Subansiri river in Taksing near the China border.

It is a Trans-Himalayan river originating from the western part of Mount Porom (5059 m) in the Tibetan Himalaya. (Kangig glacier range in Tibet)

It is also called the Gold River, the Subansiri River is famous for its gold dust.

It enters into the plains of Assam through a gorge near Gerukamukh.

It is the right-bank tributary of the Brahmaputra. It joins the Brahmaputra River in the Lakhimpur district of Assam.

**Tributaries:** Major tributaries of the river are Laro, Nye, Yume, Tsari, Kamla, Jiyadhol, Ranganadi and Dikrong.

### **4. SPARSH Pension System:**

**Recent** - System for Pension Administration – Raksha (SPARSH) has resolved legacy discrepancies upto the extent of 5.60 lakh out of 6.43 lakh cases (87%).

It is an initiative of the Ministry of Defence, Government of India.

SPARSH is world's largest pension system for defence personnel which aims to provide comprehensive solution to the defence pensioners

**Objective:** Meeting the pension sanction and disbursement requirements for Armed Forces viz. Army, Navy, Air Force and Defence Civilians.

It is administered by the Defence Accounts Department through the Principal Controller of Defence Accounts (Pensions), Prayagraj and shall cater to all the three Services and allied organisations.

### **5. Maitri 2.0 Cross-Incubation Programme:**

Recent - the Indian Council of Agricultural Research (ICAR) launched the second edition of the Brazil–India Cross-Incubation Programme in Agritech (Maitri 2.0) at New Delhi.

It is the second edition of the Brazil–India Cross-Incubation Programme in Agritech.

It is a two-way learning platform for co-creation between Indian and Brazilian innovators to build a stronger, innovative, and inclusive agri-food ecosystem for global food security.

It was launched by the Indian Council of Agricultural Research.

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## DAILY DOSE

### CURRENT AFFAIRS – 25/09/2025

#### 1. K Visa:

**Recent** - China has introduced a new visa category called the “K Visa” aimed at attracting foreign science and technology talent.

The K Visa is a new category of Chinese visa created by revising the Regulations on the Administration of the Entry and Exit of Foreigners.

It comes into effect from October 1, 2025.

It is aimed at attracting foreign youth and professionals in STEM (Science, Technology, Engineering, Mathematics) fields.

#### 2. Capacity Building and Human Resource Development Scheme:

**Recent** - the union cabinet has approved the Department of Scientific and Industrial Research / Council of Scientific and Industrial Research (DSIR/CSIR) Scheme on ‘Capacity Building and Human Resource Development” for the period of the Fifteenth Finance Commission Cycle 2021-22 to 2025-26.

It is implemented by the Council of Scientific and Industrial Research (CSIR).

It will cover all R&D institutions, national laboratories, Institutes of National Importance, Institutes of Eminence, and Universities across the country.

It provides a wide platform for young, enthusiastic researchers aspiring to build careers in universities, industry, national R&D laboratories, and academic institutions.

It is guided by eminent scientists and professors and will foster growth in Science, Technology & Engineering, Medical, and Mathematical Sciences (STEMM).

### **3. Apterichtus kanniyakumari:**

**Recent** - Researchers from National Bureau of Fish Genetic Resources (NBFGR) have discovered a new species of finless snake eel and named it after Kanniyakumari as *Apterichtus kanniyakumari*.

It is a species of finless snake eel belonging to the genus *Apterichtus* was discovered off the Colachel coast.

It has distinct golden-yellow body colouration, ventral side of head pale white with yellow lines along the lower jaw.

It consists of three black blotches including one behind the eyes followed by one in rictus and another behind the origin of rictus.

Molecular analysis based on mitochondrial CO1 gene exhibits that this new species forms a distinct clade with its sympatric species, *Apterichtus nanjilnaduensis*.

### **4. Varkala Cliff:**

**Recent** - UNESCO has placed the Varkala Cliff on its tentative list of World Heritage Sites.

It is a beautiful natural formation located in Varkala, a coastal town in Thiruvananthapuram district of Kerala.

This cliff along Kerala's coastline exposes the Warkalli Formation of the Mio-Pliocene age (13 lakh to 2.5 crore years ago), along with natural springs and striking erosional landforms, offering both scientific and touristic value.

It is locally called Sivagiri Thuruthu.

### **5. Central Water Commission:**

**Recent** - The Central Water Commission (CWC) under the Ministry of Jal Shakti organised a virtual workshop on the theme "Technology for Efficient Water Management" as part of the Sujalam Bharat Summit (2025).

It is a Premier technical organisation in water resources under the Ministry of Jal Shakti.

Headquarters: New Delhi. CWC is headed by a Chairman (Ex-Officio Secretary, GoI).

The Sujalam Bharat Summit is a national initiative led by the Ministry of Jal Shakti and coordinated by NITI Aayog, focusing on water management, sanitation, and sustainable practices.

It aims to bring grassroots perspectives into national policy-making, aligning with the vision of the Prime Minister.

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## DAILY DOSE

### CURRENT AFFAIRS – 26/09/2025

#### 1. Khoe-San:

**Recent** - a new genetic study published in the Cell Press journal reveals that European colonisation strongly altered the genetic ancestry of the indigenous Khoe-San peoples of southern Africa.

Khoe-San is a collective term for the indigenous peoples of southern Africa, encompassing:

San (Bushmen): Hunter-gatherers.

Khoekhoe (Khoi): Cattle, goat, and sheep pastoralists.

They represent one of the earliest, divergent human lineages, with exceptionally high genetic diversity.

#### 2. Nightmare Bacteria:

**Recent** - According to scientists at the US Centers for Disease Control and Prevention (CDC), drug-resistant ‘nightmare bacteria’ driven by the NDM gene are spreading faster than ever in the United States.

The term “nightmare bacteria” is used to describe Carbapenem-resistant Enterobacteriaceae (CRE).

This group of bacteria, which includes *Klebsiella pneumoniae* and *Escherichia coli* (E. coli), has developed resistance to carbapenems (a class of “last-resort” antibiotics usually reserved for severe infections).

The CDC calls them “nightmare” because they: Spread resistance genes easily to other bacteria. Cause deadly infections in the bloodstream, lungs, or urinary tract.

Do not respond to most antibiotics, making treatment difficult.

### **3. Forum for India-Pacific Islands Cooperation:**

**Recent** - Indian External Affairs hosted a meeting of the foreign ministers of the Forum for India-Pacific Islands Cooperation (FIPIC) in New York.

It is a multilateral platform established by India to enhance cooperation with the Pacific Island countries.

It was established in 2014 during the Prime Minister of India's visit to Fiji

Member countries: FIPIC includes 14 of the island countries – Cook Islands, Fiji, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, and Vanuatu.

### **4. UNEP Young Champions of the Earth Prize:**

**Recent** - three entrepreneurs from India, Kenya and the United States have been awarded the UN Environment Programme's 2025 Young Champions of the Earth prize.

It is the UN Environment Programme's flagship initiative on youth engagement.

It was established in 2017, relaunched in 2025 in partnership with Planet A.

Jinali Mody (India): Founded Banofi Leather, which produces leather alternatives made from banana crop waste. This reduces water use, toxic waste, and CO<sub>2</sub> emissions.

Joseph Nguthiru (Kenya): Started HyaPak company converts the invasive species hyacinth in Lake Naivasha into packaging bags and biodegradable seedling wrappers.

Noemi Florea (US): She has founded Cycleau, a compact water reuse system, in consultation with dozens of marginalized communities. The company transforms greywater into drinking water.



## DAILY DOSE

### CURRENT AFFAIRS – 27/09/2025

#### 1. Santorini and Kolumbo Volcanoes:

**Recent** - an earthquake swarm of over 1,200 quakes around Santorini revealed that Santorini and the submerged Kolumbo volcano share an underground magma reservoir.

##### Santorini Volcano

Located in the southern Aegean Sea, about 200 km southeast of mainland Greece.

It is the largest island of a small archipelago, forming the remnant of a volcanic caldera.

Part of the South Aegean Volcanic Arc, and the southernmost member of the Cyclades group.

##### Kolumbo Volcano

A submarine volcano located about 7 km northeast of Santorini.

Last major eruption: 1650 AD, which caused tsunamis and toxic gas emissions, leading to destruction on Santorini and nearby islands.

It forms part of the Christiana-Santorini-Kolumbo (CSK) volcanic field.

#### 2. Gaia Telescope 3D Map:

**Recent** - a new 3D map created using data from the Gaia Telescope shows stellar nurseries (star-forming regions) within 4,000 light-years of the Sun in all directions.

This is the most detailed chart of glowing hydrogen gas clouds, helping scientists understand how stars form and the dynamics of turbulent interstellar gas.

The study integrates Gaia dust maps with the radiation impact of 87 massive O-type stars, which emit intense ultraviolet light capable of ionising hydrogen gas.

### **3. Grue Jay:**

**Recent** - Researchers at the University of Texas at Austin have identified the first known hybrid of these species, a bird nicknamed the "Grue Jay," according to a 2025 study published in *Ecology and Evolution*.

The Grue Jay is a rare natural hybrid between the Blue Jay (*Cyanocitta cristata*) and the Green Jay (*Cyanocorax yncas*).

It displays turquoise-blue plumage with black facial markings, combining features of both parent species.

First spotted in San Antonio, Texas (2023) by a homeowner, later confirmed by researchers from the University of Texas at Austin.

### **4. Hanle Dark Sky Reserve (HDSR):**

**Recent** - The Hanle Dark Sky Reserve (HDSR) in Ladakh recently hosted its third annual Star Party.

The Hanle Dark Sky Reserve (HDSR) was notified in December 2022 by the Government of Ladakh.

It is India's first International Dark Sky Reserve, centred around the Indian Astronomical Observatory (IAO) at Hanle, managed by the Indian Institute of Astrophysics (IIA) under the Department of Science and Technology (DST).



## DAILY DOSE

### CURRENT AFFAIRS – 29/09/2025

#### 1. Jal Prahar 2025:

**Recent** - The Indian Navy recently concluded the 'Jal Prahar 2025' joint exercise with the Indian Army to enhance amphibious operations along the eastern seaboard.

It is a biannual joint amphibious exercise conducted by the Indian Navy in close coordination with the Indian Army.

The Jal Prahar 2025 showcased synergy, coordination, and interoperability between the Indian Navy and Indian Army, enhancing operational readiness, maritime security, and national defence capabilities.

#### 2. Yellow-tailed Ashy Skimmer:

**Recent** - At the Yamuna Biodiversity Park, Yellow-tailed Ashy Skimmer (Potamarcha congener) has been recorded for the first time during a recent Dragonfly survey in Delhi.

It is a species of dragonfly in the family Libellulidae.

Scientific Name: Potamarcha congener

It is one of two species in its group, called Potamarcha. The other species is Potamarcha puella.

It is also known as the common chaser, or swampwatcher.

**Distribution:** It is common through much of its range, which stretches through parts of South Asia, Southeast Asia, and Oceania, including in countries such as India, Indonesia, China, Australia, and Vietnam.

#### 3. Lachhipora Wildlife Sanctuary:

**Recent** - District Magistrate Baramulla recently ordered the immediate closure of 14 gypsum mining units operating within the prohibited 1-km radius of Lachipora Wildlife Sanctuary.

It is situated in the Baramulla district of Jammu and Kashmir near the village of Lachipora.

It is located on the northern banks of the Jhelum River.

Established in 1987, the sanctuary was primarily created to protect the endangered Markhor, a wild goat species known for its distinctive twisted horns.

#### **4. Agri-Stack Scheme:**

**Recent** - The Uttar Pradesh govt recently issued a stern warning to district magistrates, emphasizing that strict action will be taken against those who fail to complete farmer registration under the Agri-stack scheme within the specified timeframe.

It is the digital foundation being set up by the government to enable the rollout of data-centric digital services to improve Indian agriculture and enable farmer empowerment.

It integrates farmer data, land records, and scheme benefits into a centralized digital platform.

It is being implemented by the Ministry of Agriculture and Farmer Welfare at the Centre in close collaboration with the Revenue and Agriculture departments of State governments.

#### **5. Beddome's Cat Skink:**

**Recent** - A biodiversity survey has, for the first time, recorded the presence of Beddome's cat skink (*Ristella beddomii*) at the Aralam and Kottiyoor Wildlife sanctuaries.

It is also called Beddome's ristella.

Beddome's cat skink is named after British naturalist Richard Henry Beddome, the species is considered rare and endemic to the Western Ghats region.

Appearance: It is a small reddish brown lizard with retractile claws and bicarinate scales.

Distribution: It is found in the forests of the Western Ghats at an altitude of 400-1,300 metres.

Reproduction: It is an oviparous species and egg laying coincides with the southwestern monsoons.

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## DAILY DOSE

### CURRENT AFFAIRS – 30/09/2025

#### 1. Preponderance of Probability:

**Recent** – The judgment on the title battle over the 1,500 square yards in the town of Ayodhya is founded on the “test of preponderance of probabilities” over who had possession of the outer and inner courtyards of the disputed premises, according to former Chief Justice of India D.Y. Chandrachud.

It is a widely accepted standard of proof in civil proceedings.

The preponderance of probability refers to the greater likelihood of one event or fact over another.

In this context, a fact is considered proven when the evidence suggests that the occurrence of the fact is more likely than not.

It is not about certainty or eliminating all doubts but rather about weighing evidence to see which side presents a more probable scenario.

#### 2. Ophiorrhiza Echinata:

**Recent** - A new coffee plant species named Ophiorrhiza echinata was recently found in the Western Ghats.

It is a new species of coffee plant.

It was discovered in the highly biodiversity-rich shola forests of the Western Ghats at Devikulam in the Idukki District of Kerala.

It grows in the ecotone region between evergreen forest and grassland vegetation at an elevation of 1,630 m above sea level and may have medicinal potential.

### **3. Swachh Shehar Jodi Initiative:**

**Recent** - the Ministry of Housing and Urban Affairs (MoHUA) has launched the Swachh Shehar Jodi (SSJ) initiative.

It is a structured mentorship and collaborative action program involving 72 mentor cities and around 200 mentee cities.

Based on the recent performance in the Swachh Survekshan rankings, top-performing cities have been identified as mentor cities and paired with low-performing mentee cities. It is implemented under the Swachh Bharat Mission – Urban (SBM-U).

It is aimed to foster knowledge and experience sharing, peer learning and transforming best practices in sanitation and waste management across urban India.

### **4. Pallid Fish Eagle:**

**Recent** - a survey conducted jointly by the State Forest Department and the World Wide Fund for Nature (WWF) has revealed rare nesting of Pallid Fish Eagle in Corbett Tiger Reserve.

It is also known as Pallas's sea eagle or band-tailed fish eagle, is a large, brownish sea eagle.

It can be seen near lakes, marshes and large rivers, from lowlands to 5,000 metres of elevation.

Food: It feeds primarily on fish, but many other prey are part of its diet.

It breeds usually near water in a large nest placed in a tall tree.

### **5. Infectious Bovine Rhinotracheitis:**

**Recent** - Indian Immunologicals (IIL) has launched India's first indigenously developed glycoprotein E (gE) deleted DIVA marker vaccine against infectious bovine rhinotracheitis (IBR).

It is endemic in India and caused by Bovine Herpes Virus (BHV-1).

BoHV-1 is a member of the genus Varicellovirus in the subfamily Alphaherpesvirinae,

It is a disease of domestic and wild cattle.

There are three forms: respiratory, genital and encephalitic, the first two are more common.

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