



DAILY DOSE

CURRENT AFFAIRS – 01/11/2025

1. Indian Institute of Packaging (IIP):

Recent - The Indian Institute of Packaging (IIP) opened its Bengaluru Centre recently.

It is an autonomous body in the field of packaging and working under the administrative control of the Ministry of Commerce and Industry, Government of India.

It was established on 14th May, 1966, with its headquarters and principal laboratories in Mumbai.

The Institute set up its first branch office at Chennai in 1971, followed by branches at Kolkata, Delhi, and Hyderabad in 1976, 1986, and 2006, respectively.

The main objective of the Institute is to promote the export market by way of innovative package design and development as well as to upgrade the overall standards of packaging in the country.

2. Ayni Air Base:

Recent - India has rounded off its operation at the strategic Ayni Air Base in Tajikistan after helping it run since 2002.

It is located in Tajikistan.

It is the first overseas military facility operated by India.

Located just west of Dushanbe, the capital of Tajikistan, the base had been a neglected Soviet-era facility before India stepped in to modernize it.

3. Know Your Vehicle:

Recent - the National Highways Authority of India (NHAI) has simplified the Know Your Vehicle (KYV) process for FASTag users.

It is a system where all FASTag users submit images of their vehicle and registration certificate to verify that the tag is linked to the correct vehicle.

Purpose: It was implemented in 2024, in an attempt to prevent the leakages in the FASTag system.

The whole process has to be repeated every three years to ensure no misuse.

It is an initiative of the National Highways Authority of India (NHAI), KYV was notified by National Payments Corporation of India (NPCI).

4. Doctrine of Party Autonomy:

Recent - The Supreme Court recently held that the Doctrine of Party Autonomy is not limitless, and the same is the bedrock of arbitration.

The fundamental principle governing arbitration is party autonomy.

The freedom of the parties to choose the process of resolving disputes is known as party autonomy.

It confers on the parties the freedom to determine laws, place of arbitration, selection of arbitrators, etc.

5. The Aabhar Collection:

Recent - Indian Railways will patronise the newly launched 'Aabhar' online store that will showcase a range of exquisite gift items manufactured by indigenous tribes, handloom weavers.

It is an online store on the Government e-Marketplace (GeM) portal dedicated to showcasing exquisite gift items and hampers.

The collection, which currently features over 150 items, is part of GeM's mandate to promote social inclusion.

Products in the collection are select One District One Product (ODOP) and Geographical Indication (GI) items.

They are sourced exclusively from Central Cottage Industries Emporium (CCIE), Khadi and Village Industries Commission (KVIC), Various Central and State Handicraft and Handloom Emporiums.

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CURRENT AFFAIRS – 03/11/2025

1. Exercise 'Poorvi Prachand Prahar':

Recent - India to hold tri-service exercise 'Poorvi Prachand Prahar' in Mechuka, Arunachal Pradesh.

It is a tri-service military exercise conceived as a forward-looking exercise, which will validate multi-domain integration across land, air, and maritime fronts.

It will be held in Mechuka, Arunachal Pradesh.

Aim: It is aimed at enhancing warfighting capabilities, technological adaptation, and operational synergy among the Army, Navy, and Air.

2. National Beekeeping and Honey Mission:

Recent - The National Beekeeping & Honey Mission (NBHM) launched in 2021 by the Government of India which is driving the ambitious "Sweet Revolution".

It is a Central Sector Scheme launched by the Government of India.

It focuses on overall promotion and development of scientific beekeeping and the production of quality honey and other beehive products.

It is implemented through the National Bee Board (NBB).

3. Gogabeel Lake:

Recent - India's one more wetland, Gogabeel Lake in Katihar district of Bihar, has got a tag of international importance as a Ramsar site.

Location: It is a part of trans-Gangetic plains of land located in the state of Bihar.

Gogabil lake is an 'ox-bow' type of wetland.

It is flanked by the river Mahananda to the North-East and the river Ganga to the South.

It was declared Bihar's first 'Community Reserve'.

Local cultural traditional festivals like Sirva, Adra , Chhat are observed in this wetland.

4. Water Lettuce:

Recent - El Salvador's Lake Suchitlan is overwhelmed by invasive water lettuce which is impacting thousands of families dependent on fishing and tourism.

Water lettuce is a free-floating aquatic weed found in tropical countries worldwide, including Asia, Africa and equatorial America.

It is also known as water cabbage, Nile cabbage, or shellflower.

Appearance: It is a floating aquatic herb that resembles a floating head of lettuce. It has white to tan, long and feathery roots that hang beneath the rosette of leaves.

5. Ramnami Tribe:

Recent - Two members of the Ramnami tribe became emotional when the Prime Minister broke the protocol allowing them to adorn him with their traditional headgear- peacock feather crown- recently.

The Ramnamis are a unique sect from Chhattisgarh, India, who tattoo the name "Ram" on their bodies and faces.

The Ramnami Samaj is a movement that came up in what is now central and northern Chhattisgarh in the 19th century as an act of peaceful resistance against the caste system in India that denied many of them entry to temples.

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CURRENT AFFAIRS – 04/11/2025

1. Amphipods:

Recent - Two new species of marine amphipods, *Grandidierella geetanjala* and *Grandidierella khambhatensis*, have been found by a team of researchers from Chilika and the Gulf of Khambhat, recently.

They are a type of small crustacean.

They are related to crabs, lobsters, and shrimp.

They can be found in almost all water environments.

They live in the ocean, in fresh water, and even on land.

2. *Pilia malenadu*:

Recent - A team of researchers exploring biodiversity in the Western Ghats recently discovered a new species of spider named *Pilia malenadu*.

It is a new species of spider.

It belongs to *Pilia*, a genus of jumping spiders.

It was discovered in Madhugundi in the Mudigere taluk of Chikkamagaluru, Karnataka, at the foothills of the Western Ghats.

3. Pampadum Shola National Park:

Recent - The Pampadum Shola National Park which was once dominated by invasive Australian wattles is undergoing a remarkable transformation and its grasslands are being restored, reviving streams and native species.

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Location: It is located in the eastern part of Southern Western Ghats of Kerala.

It is the smallest national park of Kerala and shares a border with Dindigul district of Tamil Nadu.

It was declared a national park in 2004.

It is the southernmost shola–grassland mosaic in the Western Ghats, one of the world’s oldest mountain systems predating the Himalayas.

It is a part of Palani hills stretched up to Vandaravu peak.

4. Encephalomyocarditis Virus:

Recent - an autopsy report from the Indian Veterinary Research Institute revealed that a lone African elephant at the National Zoological Park in Delhi died due to the rare rodent-borne virus — encephalomyocarditis virus (EMCV).

It is a non-enveloped, positive-sense, single-stranded RNA virus that is part of the Cardiovirus genus and Picornaviridae family.

It is the causative agent of encephalomyocarditis (EMC) infection in swine and other mammals.

African elephants are particularly susceptible to the virus, with outbreaks reported worldwide in captivity and in the wild.

EMCV is a zoonotic disease, therefore humans are susceptible to infection. Most infections in humans are asymptomatic.

Transmission: The virus can be transmitted by food or water contamination caused from feces or urine of a rodent species.

5. Integrated Sohra Tourism Circuit:

Recent - the Union Minister for Development of North Eastern Region laid the foundation stone for the Integrated Sohra Circuit Development

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under the Prime Minister's Development Initiative for North Eastern Region (PM-DevINE) scheme.

It is jointly being developed by the Ministry of DoNER and the Government of Meghalaya.

It aims to transform Sohra into a multi-day experiential tourism destination rooted in sustainability and local livelihoods.

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CURRENT AFFAIRS – 05/11/2025

1. INS Savitri:

Recent - Indian Naval Ship (INS) Savitri recently arrived at Port Louis, Mauritius as part of a Long-Range Operational Deployment to the South West Indian Ocean Region.

It is an indigenously built Offshore Patrol Vessel of the Indian Navy.

It was built by Mazagon Dock Limited, Mumbai, and commissioned on 7 June 1990.

It is under the Eastern Naval Command based at Visakhapatnam.

The ship has wide-ranging operational roles, including aerial surveillance and in search & rescue roles.

2. Cycad Plant:

Recent - The All India Institute of Medical Sciences (AIIMS), Bhubaneswar has initiated a research on Cycad, over concerns that the plant contains BMAA, a potential neurotoxin.

It is the palmlike woody gymnospermous plants.

It is an ancient plant species that is believed to have coexisted with dinosaurs for over 300 million years.

Habitat: They occupy a variety of habitats. Some are native to wet rainforests while others are from semidesert climates; others grow in grasslands or seasonally dry forests.

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Distribution: Tropical and subtropical latitudes in the Americas, Caribbean, sub-Saharan Africa, Madagascar, eastern India, China, Japan, southeast Asia, Oceania and Australia.

3. Ramman Festival:

Recent - the President of India was presented with a Ramman mask at a special session of the Uttarakhand Assembly.

It is an annual religious festival celebrated in late April in the twin villages of Saloor-Dungra, Uttarakhand, in honour of the local deity Bhumiyal Devta.

In 2009, Ramman was inscribed in the list of UNESCO's Intangible Cultural Heritage of Humanity.

It features complex rituals, recitations of the Ramayana, songs, and masked dances, with each caste and group playing distinct roles.

4. River Umngot:

Recent - a concern has been raised that the pristine waters of River Umngot are turning murky due to massive dumping of soil and construction debris into river systems.

It is popularly known as Dawki river which flows through the West Jaintia Hills district of Meghalaya.

Origin: It originates from the Eastern Shillong Peak, which is located 1,800 m above sea level.

It is famous for its picturesque crystal-clear water.

5. Indian Mouse Deer:

Recent - A rare Indian mouse deer was recently photographed at Tungareshwar Wildlife Sanctuary in Vasai.

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The Indian Mouse Deer, or Indian Spotted Chevrotain, is a species of even-toed ungulate belonging to the family Tragulidae.

Scientific Name: *Moschiola indica*

It is the smallest deer species found in India and is known for its elusive and shy nature.

It is endemic to the Indian Subcontinent. It is mainly found in peninsular India, with some old records from Nepal.

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DAILY DOSE

CURRENT AFFAIRS – 06/11/2025

1. Second World Summit for Social Development 2025:

Recent - The Minister for Labour & Employment is representing India at the World Summit for Social Development (WSSD-2) held in Doha, Qatar.

It is a United Nations convened summit which reaffirms to eradicate poverty, promote full and productive employment and decent work for all, and foster social inclusion.

It is designed to align with other recent global processes, such as the 2023 SDG Summit Political Declaration, the Pact of the Future and the forthcoming Fourth International Conference on Financing for Development (FfD4).

History: The first World Summit for Social Development was held in Copenhagen in March 1995.

The second World Summit for Social Development is held in Doha, Qatar.

2. Emissions Gap Report 2025:

Recent - Emissions Gap Report 2025 assessment has found that updated global climate pledges have resulted in only marginal progress towards limiting global warming.

Emissions Gap Report is an annual report published by the United Nations Environment Programme (UNEP).

The EGR series tracks our progress in limiting global warming well below 2°C and pursuing 1.5°C in line with the Paris Agreement.

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It is launched every year ahead of the UN Climate Change Conference of the Parties (COP).

The EGR is co-produced by UNEP, the UNEP Copenhagen Climate Centre (UNEP-CCC) and partners.

3. Project Suncatcher:

Recent - Google announced a new research initiative called Project Suncatcher.

It is a research initiative exploring how constellations of solar-powered satellites could host data centres in space.

It is an initiative of Google.

Google aims to deploy high-performance AI accelerators in space and build a space-based infrastructure.

4. Alprazolam:

Recent - the Directorate of Revenue Intelligence (DRI) has busted a clandestine factory manufacturing alprazolam in Valsad under “Operation White Cauldron”.

Alprazolam is a psychotropic substance under the Narcotics, Drugs and Psychotropic Substances (NDPS) Act 1985.

This drug falls under the benzodiazepines class of drugs, and is a tranquillizing agent used in the treatment of anxiety disorders.

Benzodiazepines belong to the group of medicines called central nervous system (CNS) depressants, which are medicines that slow down the nervous system.

It is used to treat anxiety disorders, panic disorders, and anxiety caused by depression.

5. National Cooperative Development Corporation:

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Recent - The National Cooperative Development Corporation remains a cornerstone of India's cooperative growth and has demonstrated its pivotal role in fostering self-reliance and inclusive development.

It is a statutory organisation established in 1963, under the Ministry of Cooperation, Government of India.

Promoting and strengthening farmer cooperatives: It aims to increasing production, productivity by developing farmer cooperatives and instituting post-harvest facilities.

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CURRENT AFFAIRS – 07/11/2025

1. Khangchendzonga National Park:

Recent - The International Union for Conservation of Nature (IUCN) recently rated Khangchendzonga National Park as “good” in its latest global review of natural World Heritage sites.

It is located in the north of Sikkim.

It is a part of the Khangchendzonga Biosphere Reserve (KBR).

KBR is India’s first “mixed” UNESCO World Heritage Site, recognised in 2016 for its combination of natural beauty and cultural importance.

It is home to Mt. Khangchendzonga, the third highest peak in the world.

It lies entirely along the Sikkim-Nepal border.

2. Vedanthangal Bird Sanctuary:

Recent - The Vedanthangal Bird Sanctuary has come alive with the arrival of thousands of migratory birds marking the start of the season.

It is located in the Chengalpattu District of Tamil Nadu

It is one of the oldest bird protected areas in the country as well as in the State of Tamil Nadu.

3. Baliyatra Festival:

Recent - the President of India extended greetings on the occasion of the historic ‘Baliyatra’ festival and ‘Boita Bandana’ to all the countrymen.

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It is celebrated annually in Cuttack, Odisha.

The term Bali Jatra literally means 'Voyage to Bali'.

It is celebrated every year on Kartika Purnima that marks the day that the seafaring traders departed for the Indonesian islands.

4. Vande Mataram 150 Years Celebration:

Recent - The Prime Minister of India will inaugurate the year-long commemoration of 150 years of the National Song "Vande Mataram" in New Delhi.

"Vande Mataram," written by Bankim Chandra Chatterjee in a blend of Sanskrit and Bengali, is the National Song of India.

It was first featured in his novel Anand Math in 1882, with its tune composed by Yadunath Bhattacharya.

It became a symbol of patriotism during India's freedom struggle.

5. Black-Headed Ibis:

Recent - A flock of rare White Ibis, commonly known as Black-headed Ibis, was recently sighted in the salt pan regions of Thoothukudi district, Tamil Nadu.

The black-headed ibis, also known as the Oriental white ibis, Indian white ibis, and black-necked ibis, is a species of wading bird of the ibis family Threskiornithidae.

Scientific Name: Threskiornis melanocephalus

These are called wader birds due to their adaptability to a wide variety of aquatic environments.

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DAILY DOSE

CURRENT AFFAIRS – 08/11/2025

1. ReALCRaft Portal:

Recent - the government notified rules for “Sustainable Harnessing of Fisheries in the Exclusive Economic Zone” and an Access Pass required for mechanized and large-sized motorized vessels can be obtained through the online ReALCRaft portal.

The Registration And Licensing of Fishing Craft (ReALCRaft) portal is developed as a national online platform under open source technology.

It is developed by the Department of Fisheries, Ministry of Fisheries, Animal Husbandry & Dairying.

It provides web-based, citizen-centric services to marine fishers and coastal States/UTs for the registration and licensing of fishing vessels, transfer of ownership, and related processes.

2. Melanin:

Recent - Melanin tells the tale of how our ancestors survived from the Sun's heavy UV rays 50000 years back.

Melanin is a natural pigment found in most living organisms.

It is present in human and animal skin to varying degrees, and is responsible for your unique eye, hair and skin color.

Melanin is produced within special structures called melanosomes. Melanosomes are found inside melanin-producing pigment cells called melanocytes.

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3. Deendayal Antyodaya Yojana – National Rural Livelihoods Mission:

Recent - Ethiopian delegates expressed their intention to apply the lessons learned from the Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM) their Productive Safety Net Program.

It is a flagship poverty alleviation program implemented by the Ministry of Rural Development, Government of India.

It aims at mobilizing rural poor households into Self Help Groups (SHGs) and continuously nurturing and supporting them to take economic activities till they attain an appreciable increase in income over a period of time.

4. Lichen:

Recent - Researchers recently discovered four new lichen species, enhancing biodiversity understanding in the Western Ghats.

The newly identified species – Parmotrema sahyadricum (discovered from Wayanad), Solenopsora rhizomorpha (from Eravikulam and Mathikettanshola National Parks), Buellia ghattensis (Mathikettanshola National Park) and Pyxine janakiae (Mathikettanshola National Park) – have been published in international scientific journals.

The work that started in 2022 resulted in these discoveries.

The team also recorded more than 50 species of lichens, which are new reports to the Kerala part of the Western Ghats.

A lichen is a symbiosis between different organisms — a fungus and an algae or cyanobacterium.

5. Rhesus Macaque:

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Recent - the standing committee of the National Board for Wildlife (SC-NBWL) has recommended reinstating Rhesus Macaque species of monkeys under Schedule II of the Wildlife (Protection) Act, 1972.

The Rhesus macaque (*Macaca mulatta*) is a species of Old World monkey.

Appearance: Rhesus macaques are familiar brown primates with red faces and rears. They have close-cropped hair on their heads, which accentuates their very expressive faces.

Distribution: They are native to India, Bangladesh, Pakistan, Nepal, Myanmar, Thailand, Afghanistan, Vietnam, southern China, and some neighboring areas.

Habitat: They may be found in forests, mangroves, scrub, grasslands, and mountainous regions.

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DAILY DOSE

CURRENT AFFAIRS – 10/11/2025

1. Financial Sector Assessment (FSA) Report:

Recent - The latest Financial Sector Assessment (FSA) report has stated that India is achieving its vision to become a \$30 trillion economy by 2047.

It was published by the World Bank.

Key Highlights - India's financial system has become more resilient, diversified, and inclusive.

2. Visible Emission Line Coronagraph:

Recent - scientists at the Indian Institute of Astrophysics (IIA) have collaborated with NASA to estimate the crucial parameters of a coronal mass ejection (CME) by using Visible Emission Line Coronagraph (VELC) payload onboard India's Aditya-L1 mission.

It is the primary payload of the Aditya-L1 Mission—India's first mission to observe the Sun from a vantage point 1.5 million kilometres from the earth.

It is an internally occulted solar coronagraph capable of simultaneous imaging, spectroscopy, and spectro-polarimetry close to the solar limb.

3. Ricin:

Recent - The Gujarat Anti-Terrorist Squad recently busted a suspected terror syndicate by arresting a 'doctor', who was allegedly preparing the highly lethal chemical poison, 'Ricin', and whose handler is associated with the Islamic State Khorasan Province, and two others.

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Ricin is a poison found naturally in castor beans.

If castor beans are chewed and swallowed, the ricin that comes out can cause injury.

Ricin can be made from the waste material left over from processing castor beans.

Ricin can be in the form of a powder, a mist, or a pellet.

It can also be dissolved in water or weak acid.

4. Canary Island:

Recent - Three people were killed and 15 others injured after powerful waves struck Tenerife, the largest of Spain's Canary Islands and a popular holiday destination.

The Canary Islands are an archipelago located off the northwest coast of Africa in the Macaronesia region of the North Atlantic Ocean.

Geographically, the archipelago is part of continental Africa, but politically and economically it is part of Europe.

5. Konark Sun Temple:

Recent - The Archaeological Survey of India (ASI) has prohibited tourists from entering the 'Nata Mandap' of the Konark Sun Temple in Odisha's Puri district.

It is located on the coastline of Odisha in the Puri district.

Also called the Surya Devalaya, the temple is dedicated to the Hindu sun god Surya.

Textual evidence indicates that Narasimha I (who reigned between 1238 and 1264) of the Eastern Ganga dynasty built the temple in 1250 CE.

It was designated a UNESCO World Heritage Site in 1984.

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DAILY DOSE

CURRENT AFFAIRS – 11/11/2025

1. Coronary Artery Disease (CAD):

Recent - New research from Seoul scientists reveals how gut microbes may influence the development of coronary artery disease, the world's leading killer.

It is a common type of heart disease. CAD also may be called coronary heart disease.

It affects the main blood vessels that supply blood to the heart, called the coronary arteries.

In CAD, there is reduced blood flow to the heart muscle.

2. Lake Turkana:

Recent - A drying climate in East Africa reduced the amount of water in Kenya's Lake Turkana over thousands of years, which unleashed earthquakes and volcanoes from underneath it.

Lake Turkana, formerly Lake Rudolf, is a vast, shallow lake located in the arid part of northern Kenya, with its northern end extending into Ethiopia.

It lies along the Eastern Rift Valley, separated from Lake Logipi on the south by a group of young volcanoes known as the Barriers.

The three main rivers flowing into the lake are Omo, Kerio, and Turkwel, with the Omo River contributing about 90% of the inflow annually.

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It is Africa's 4th largest lake by surface area and the world's largest permanent desert lake.

3. Rift Valley Fever:

Recent - the World Health Organization (WHO) confirmed an outbreak of Rift Valley Fever (RVF) affecting Mauritania and Senegal in Western Africa.

It is caused by a Phlebovirus belonging to the Phenuiviridae family.

It primarily affects animals such as sheep, goats, cattle, and camels.

Humans become infected through close contact with infected animals or by the bite of infected mosquitoes.

The virus has not been shown to spread from person to person.

Transmission: Multiple mosquito species can transmit the Rift Valley fever virus, and the predominant vector differs from one region to another.

4. The "Exercise MITRA SHAKTI-2025":

Recent - it is being conducted at Foreign Training Node, Belagavi, Karnataka.

It is the eleventh edition of joint military exercise between India and Sri Lanka.

Aim: To jointly rehearse conduct of Sub Conventional Operations under Chapter VII of United Nations Mandate.

5. Molasses:

Recent - the Central government has decided to allow export of 1.5 million tonnes (MT) of sugar for the 2025-26 and also remove 50 per cent export duty on molasses.

It is a byproduct which comes from crushed sugar cane or sugar beets.

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It is a dense, viscous liquid of dark brown tint, rich in sugars, and containing a small percentage of water.

It contains more vitamins and minerals than other sweeteners but is still high in sugar....

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DAILY DOSE

CURRENT AFFAIRS – 12/11/2025

1. Climate Investment Fund:

Recent - during COP 30 of UNFCCC, Germany and Spain announced a \$100 million commitment for the Climate Investment Fund's (CIF) new programme called Accelerating Resilience Investments and innovations for Sustainable Economies (ARISE).

It was launched in 2008.

It is a multilateral climate fund that enables climate action in over 70 low and middle income countries.

Purpose: The purpose of CIF is to finance comprehensive measures for climate change mitigation and adaptation in developing and emerging economies.

CIF comprises two funds: the Clean Technology Fund (CTF) and the Strategic Climate Fund (SCF).

2. Humboldt Penguin:

Recent - Chilean scientists warned of further risks to the world's shrinking population of Humboldt penguins.

The Humboldt penguin (*Spheniscus humboldti*) belongs to a genus that is commonly known as the 'banded' group.

They are so named because their habitat is located near the Humboldt Current, a large oceanic upwelling characterised by cold waters.

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Distribution: Humboldt penguins are endemic to the Pacific coasts of Chile and Peru. Chile's Pacific coast is home to 80% of the world's remaining Humboldt penguins.

IUCN status: Vulnerable, CITES: Appendix I.

3. *Jaechanax kuranganiensis*:

Recent - Researchers recently uncovered a previously unknown species of the unique aquatic insect known as the water-penny beetle, named *Jaechanax kuranganiensis*.

It is a new species of water-penny beetle.

It was discovered in the fast-flowing Kurangani stream of the Bodi hills, in the Western Ghats of Tamil Nadu.

It marks the first-ever record of its genus in Tamil Nadu. The genus was previously known only from three other species found in various Asian countries.

The research team identified the new species by examining its distinctive larval form.

4. *Neodymium*:

Recent - India is planning to increase its neodymium production by nine times, reaching 500 tons by the end of FY27.

Neodymium is a chemical element with symbol Nd and atomic number 60.

It belongs to the lanthanides group, part of the rare earth elements.

It was discovered in Vienna in 1885 by Karl Auer.

It is the second most abundant of the rare-earth elements (after cerium).

5. Greater Flamingo Sanctuary:

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Recent - concerns have been raised over a proposed wind farm near Greater Flamingo Sanctuary in Dhanushkodi, Tamil Nadu.

Location: It is located in Dhanushkodi in Ramanathapuram district of Tamil Nadu.

It is nestled within the ecologically sensitive Gulf of Mannar Biosphere Reserve.

The designated area is home to a variety of ecosystems, including mangroves, sand dunes, mudflats, and marshes.

It is a critical stopover point along the Central Asian Flyway for thousands of migratory wetland birds.

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CURRENT AFFAIRS – 13/11/2025

1. DRISHTI System:

Recent - The Indian Railways is planning to install a new AI-based Locking Monitoring System called – 'DRISHTI'.

It is an AI-Based Freight Wagon Locking Monitoring System.

The Northeast Frontier Railway (NFR) joined hands with the Indian Institute of Technology Guwahati Technology Innovation and Development Foundation (IITG TIDF) to develop the system.

The DRISHTI system aims to tackle operational challenges in identifying unlocked or tampered doors on moving freight wagons — a persistent safety and security issue in rail logistics.

2. Rare Earth Hypothesis:

Recent - New insights from exoplanet studies revive and reshape the debate over the Rare Earth Hypothesis

The Rare Earth hypothesis posits that the emergence of complex life on planets outside Earth is highly unlikely due to a unique combination of specific conditions required for such life to thrive.

Proposed by paleontologist Peter Ward and astronomer Donald Brownlee in 2000, the hypothesis suggests that while microbial life may be abundant throughout the universe, the prerequisites for complex organisms are exceedingly rare.

3. Himalayan Black Bear:

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Recent - wildlife experts in Uttarakhand raised concern that Himalayan Black bears (*Ursus thibetanus laniger*) are turning aggressive as erratic weather disrupts their hibernation patterns.

It is a subspecies of the Asian black bear.

It is a large forest-dwelling bear of the Himalayas, also called Asiatic black bear or Moon bear.

They are mainly found in the Himalayas, in Tibet, India, Nepal, Pakistan, and China.

IUCN status – Vulnerable.

4. Vanadium:

Recent - the union Minister for Power inaugurated India's first MWh-scale Vanadium Redox Flow Battery (VRFB) system at NTPC's NETRA (Noida).

It is a chemical element with the symbol "V" and atomic number 23.

It is a silver-gray, ductile, and malleable metallic element.

It is harder than most metals and exhibits good corrosion resistance against alkalis and acids.

5. Vitamin D:

Recent - Personalized vitamin D dosing, guided by regular blood monitoring, significantly reduced recurrent heart attacks by 52% in a recent trial.

Vitamin D (also referred to as calciferol) is a fat-soluble vitamin that is naturally present in a few foods, added to others, and available as a dietary supplement.

It is also produced endogenously when ultraviolet (UV) rays from sunlight strike the skin and trigger vitamin D synthesis.

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During periods of sunlight, vitamin D is stored in fat and then released when sunlight is not available.

Very few foods have vitamin D naturally. The foods with the most are fatty fish (like salmon and tuna), liver, mushrooms, eggs, and fish oils.

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DAILY DOSE

CURRENT AFFAIRS – 14/11/2025

1. Mudh-Nyoma Airbase:

Recent - Chief of the Air Staff Air Chief Marshal AP Singh recently inaugurated the Mudh-Nyoma airbase in Ladakh by landing a C-130J special operations aircraft there.

It is an Indian Air Force (IAF) base located in Nyoma, in southeastern Ladakh.

It is located at a height of 13,700 feet and is 23 km from the contested Line of Actual Control (LAC) with China.

Nyoma is the fourth IAF base in Ladakh, the highest airfield in the country, and the fifth highest in the world now.

It lies close to the southern bank of the Pangong Tso and earlier had a mud-paved landing ground.

2. National Database for Emergency Management:

Recent - the Ministry of Road Transport has made it mandatory for all Detailed Project Reports of highway projects to include analysis using the National Database for Emergency Management (NDEM).

It is a unique Geo-portal to disseminate space-based inputs along with services of forecasting organizations addressing all natural disasters in India.

It is a national repository of multi-scale geospatial databases coupled with decision support system tools.

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It is developed by the Indian Space Research Organisation (ISRO) under the guidance of the National Disaster Management Authority (NDMA).

The NDEM portal is maintained by the National Remote Sensing Centre (NRSC).

NDEM services have been operationalised since 2013 providing timely information along with disaster specific products for effective decision making.

3. Metformin:

Recent - Metformin may weaken the benefits of exercise, a new study suggests.

Metformin (1,1-dimethylbiguanide hydrochloride) is an anti-diabetic medication (biguanide).

It is commonly prescribed to help manage type 2 diabetes.

Metformin works in a few different ways to help keep your blood glucose (sugar) from getting too high.

4. ESCAPEDE Mission:

Recent - Blue Origin has successfully launched Nasa's highly anticipated Escapade mission to Mars.

The ESCAPADE (Escape and Plasma Acceleration and Dynamics Explorers) mission is the first coordinated multi-spacecraft orbital science mission to Mars.

Its twin orbiters are known as Blue and Gold which will take simultaneous observations from different locations around Mars.

It is part of NASA's SIMPLEx (Small Innovative Missions for Planetary Exploration) program.

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5. Hydrogen Valley Innovation Clusters:

Recent – the union Minister of State (Independent Charge) for Science and Technology announced that four Hydrogen Valley Innovation Clusters (HVICs) are being developed across the country.

These are being developed across the country to demonstrate the full green hydrogen value chain — from production and storage to transport and utilization.

Funding: Total investment of ₹ 485 crore.

The HVIC project is aimed at “building a local hydrogen ecosystem by connecting supply and demand across sectors like transport, industry, and energy, while also fostering research, innovation, and skills.

These clusters were originally conceptualized by the Department of Science and Technology, and now integrated under National Green Hydrogen Mission (NGHM).

These four Hydrogen Valleys are coming up in Pune, Jodhpur, Bhubaneswar and Kerala.

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DAILY DOSE

CURRENT AFFAIRS – 15/11/2025

1. Electronics Development Fund:

Recent - The Electronics Development Fund has played a pivotal role in nurturing innovation and entrepreneurship in India's electronics and IT sectors.

It was launched by the Government of India on 15 February 2016.

The Fund aims to promote research, development, and entrepreneurship in the fields of electronics, nano-electronics, and information technology.

It functions as a Fund of Funds, designed to invest in professionally managed Daughter Funds such as early-stage angel and venture funds.

Each Daughter Fund supported under the scheme is required to be registered in India and comply with all applicable laws and regulations, including the SEBI (Alternative Investment Funds) Regulations, 2012, as Category I or Category II AIFs.

2. Man-Portable Autonomous Underwater Vehicles:

Recent - new generations of man-portable autonomous underwater vehicles (MP-AUVs) have been successfully developed by the Defence Research and Development Organisation.

It is developed for mine countermeasure missions.

It is developed by the Naval Science & Technological Laboratory (NSTL), Visakhapatnam of Defence Research and Development Organisation (DRDO).

3. Palar River:

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Recent - A 60-year-old woman was washed away in a flash flood in the Palar river near Katpadi town in Vellore, Tamil Nadu, recently.

It is a river in southern India.

It originates from the Nandidurg hills in the Kolar district of Karnataka, flowing as an underground stream (Guptagamini) before emerging near Bethamangala town.

It flows 93 km in Karnataka, 33 km in Andhra Pradesh, and 222 km in Tamil Nadu before finally reaching its confluence in the Bay of Bengal at Vayalur, about 100 km south of Chennai.

The river has seven tributaries, with the Cheyyar River and Ponnai River being the most significant.

4. Strait of Hormuz:

Recent - Iran seized a Marshall Islands-flagged oil tanker as it travelled through the narrow Strait of Hormuz recently, turning the ship into Iranian territorial waters in the first such interdiction in months in the strategic waterway.

It is a narrow waterway between Iran and the Arabian Peninsula, specifically the United Arab Emirates, and Musandam (Oman).

The Gulf of Oman is on the strait's east, while the Persian Gulf is on the west.

It is the only sea channel linking the oil-rich Persian Gulf (west) with the Gulf of Oman and the Arabian Sea (southeast).

Iran is located on the north coast, while the UAE is on the south coast.

5. RuTAG Initiative:

Recent - the Principal Scientific Adviser (PSA) to the Government of India chaired the second annual review meeting of the Rural Technology Action Group (RuTAG) 2.0 initiative.

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The Rural Technology Action Group (RuTAG) is an initiative of the Office of the Principal Scientific Adviser (OPSA) which was launched in 2004.

It was conceptualized as a mechanism to provide a higher level of Science & Technology intervention and support for rural areas.

Under this initiative, the interventions are designed to be primarily demand-driven, focusing on bridging technology gaps at the grassroots level, upgrading technology, and providing training and demonstrations through innovative projects.

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DAILY DOSE

CURRENT AFFAIRS – 17/11/2025

1. Ammonium Nitrate:

Recent – Ammonium nitrate, one of the substances responsible for the Delhi explosion recently, was used in five deadly blasts in the Mumbai city in the past after being mixed with other products.

Ammonium nitrate (NH_4NO_3) is a crystal-like white solid which is made in large industrial quantities.

It is a salt of ammonia and nitric acid.

It is commonly used in agriculture as a high-nitrogen fertilizer, and it has also been used as an oxidizing agent in explosives.

It has a melting point of 170°C .

2. Foraminifera:

Recent - A global review of tiny sea animals called foraminifera has identified 57 new living species.

Foraminifera, or forams for short, are single-celled organisms that live in the open ocean, along the coasts, and in estuaries.

Most have shells for protection and either float in the water column (planktonic) or live on the sea floor (benthic).

Of the approximately 8,000 species living today, only about 40 species are planktonic, thus the vast majority of foraminifera live on the sea floor.

3. Gulf Cooperation Council:

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Recent - the Gulf Cooperation Council has approved a landmark one-stop travel system designed to streamline movement across member states.

It is a regional political and economic alliance established in 1981.

Member countries: It comprises Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates (UAE).

Objective: To foster economic, security, cultural, and social cooperation among its members.

Background: It was formed in response to escalating regional tensions, particularly the Iranian Revolution (1979) and the Iran-Iraq War (1980–1988).

Headquarters: Riyadh, Saudi Arabia.

4. Siliguri Corridor:

Recent - Amid shifting regional dynamics following the change of regime in Bangladesh and concerns over China's growing presence near the vulnerable Siliguri corridor, the Indian Army has reinforced its eastern frontier by establishing three new garrison locations

It is a narrow stretch of land in West Bengal that connects India's mainland to its northeastern states.

This corridor shares its border with Nepal, Bhutan, and Bangladesh and is only 130 km away from China's Chumbi Valley.

Its geographical fragility and criticality have earned it the nickname "Chicken's Neck" in strategic and military circles.

It is the only land link between our Northeast region and the rest of the country.

5. Caracal:

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Recent - In a groundbreaking discovery, the elusive Asiatic Caracal has been spotted at Ramgarh in Jaisalmer in Rajasthan.

It is an elusive medium-sized wild cat species.

Scientific Name: Caracal caracal.

It is often referred to as the desert lynx, however, they are more closely related to the African golden cat and the Serval.

In India, it is called siya gosh, a Persian name that translates as 'black Ear'.

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DAILY DOSE

CURRENT AFFAIRS – 18/11/2025

1. Integrated Forum on Climate Change and Trade:

Recent - the 30th Conference of the Parties (COP30) to the United Nations Framework Convention on Climate Change formally launched an integrated forum on Climate Change and Trade (IFCCT).

It is a politically supported forum where countries can address the increasingly contentious intersection between trade policies and climate action.

Launched at: It was launched at COP30, Belém (Brazil), on 15 November 2025.

It bridges divides between climate ambition and trade policy and help developing countries gain a stronger voice in shaping emerging trade rules.

It will be co-chaired by Brazil and a developed country partner, and open to all Parties to the UNFCCC.

The IFCCT will be institutionally independent of both the WTO and the UNFCCC.

2. Adam Chini Rice:

Recent - Agricultural scientists at Banaras Hindu University (BHU), have recently achieved significant breakthroughs in improving the Adam Chini Rice variety's resilience and productivity by using mutagenesis.

It is an aromatic black rice variety known for its pleasant aroma and superior cooking qualities.

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It is mainly grown in the Eastern Uttar Pradesh region including Chandauli, Varanasi and Vindhya region.

It received Geographical Indication (GI) in 2023.

3. Exercise AJEYA WARRIOR:

Recent – the eighth edition of the Exercise “AJEYA WARRIOR-25” commenced at the Foreign Training Node, Mahajan Field Firing Ranges, Rajasthan.

It is a bilateral military exercise conducted between India-UK.

It is held biennially since 2011, AJEYA WARRIOR has evolved into a flagship engagement between the Indian Army and the British Army.

4. Sentinel-6B Satellite:

Recent - the Sentinel-6B was launched from the Vandenberg Space Force Base in California.

It is a joint mission between the United States’ NASA and NOAA, and the European Space Agency.

Objective: It is an ocean-tracking satellite which will measure the rising sea levels and its impacts on the planet.

Sentinel-6B is set to carry forward the legacy of Sentinel -6 Michael Freilich, launched in November 2020.

5. Lycodon Irwini:

Recent - Researchers recently confirmed the discovery of Lycodon irwini, a glossy black wolf snake, on Great Nicobar Island.

It is a new species of snake.

It was discovered on the remote Great Nicobar Island at the southern tip of the Nicobar Islands.

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The snake, which is a member of the *Lycodon subcinctus* group, was named in honour of the late Australian conservationist and television personality, Stephen Robert Irwin.

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DAILY DOSE

CURRENT AFFAIRS – 19/11/2025

1. Raulane Festival:

Recent - Bright, colourful, and quite fascinating photos of the Raulane festival from Himachal Pradesh recently went viral on social media, with users discussing the unique ritual and culture of a centuries-old tradition.

It is a traditional festival celebrated in Kalpa, Kinnaur district, Himachal Pradesh, in winter or early spring.

It is believed to be around 5,000 years old.

This ancient festival honours celestial fairies, known as Saunis, said to be radiant and gentle beings.

Locals believe that the Saunis protect villagers during harsh winters by offering warmth and guidance.

During the festival, two men symbolically "marry" and become vessels for the Saunis, embodying a divine couple, the Raula (groom) and the Raulane (bride).

2. Tetrachloroethylene:

Recent - Researchers have identified that Tetrachloroethylene commonly used in dry cleaning and household items could lead to a 3x increased risk of liver diseases.

It appears as a clear colorless volatile liquid having an ether-like odor.

It is noncombustible and insoluble in water.

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Other names for tetrachloroethylene include perchloroethylene, PCE, perc, tetrachloroethene, and perchlor

Health Impacts: Exposure to very high concentrations of tetrachloroethylene can cause dizziness headaches, sleepiness, incoordination confusion, nausea, unconsciousness, and even death.

3. Antiphospholipid Syndrome (APS):

Recent - A 29-year-old man with a rare autoimmune condition, antiphospholipid syndrome, survived a second stroke and simultaneous clots in his heart and leg after a coordinated emergency intervention at a Chennai city hospital.

It is a rare autoimmune condition in which the immune system mistakenly makes certain abnormal antibodies that attack tissues in the body.

These antibodies target proteins attached to fat molecules (phospholipids), which makes the blood more likely to clot.

APS can cause blood clots to form in arteries and veins.

Blood clots can form in the legs, lungs, and other organs, such as the kidneys and spleen.

The clots can lead to heart attack, stroke, and other conditions.

During pregnancy, APS also can result in miscarriage and stillbirth.

4. Trade Intelligence and Analytics Portal:

Recent - the Union Minister of Commerce and Industry launched the Trade Intelligence & Analytics (TIA) Portal in New Delhi.

It is a one-stop trade intelligence and analytics platform that integrates multiple global and national databases.

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It is developed by the Department of Commerce, Minister of Commerce and Industry.

5. Ginkgo-Toothed Beaked Whale:

Recent - a team of scientists has spotted the rare ginkgo-toothed beaked whales (*Mesoplodon ginkgodens*) for the first time in the wild along the coast of Baja California in Mexico.

It is one of 24 species of beaked whales, which are the second most diverse group of cetaceans after dolphins.

Distribution: It resides in tropical and temperate waters throughout the Pacific and Indian Oceans.

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DAILY DOSE

CURRENT AFFAIRS – 20/11/2025

1. National Industrial Classification 2025 (NIC-2025):

Recent - The Ministry of Statistics and Programme Implementation (MoSPI) recently released the National Industrial Classification (NIC) 2025 during the 'Culmination Ceremony' of the 75th anniversary of National Sample Survey (NSS) and World Statistics Day 2025.

The NIC is the standardized system used to classify all economic activities in India for statistical surveys, censuses (like the Annual Survey of Industries), and national accounts (GDP calculation).

First introduced in 1962, it has been revised periodically in line with international standards and the changing economic landscape, leading to NIC 1970, NIC 1987, NIC 1990, NIC 1998, NIC 2004, and NIC 2008.

The NIC 2025 represents the latest updated national standard for classifying economic activities in India.

The NIC 2025 has been prepared by the MoSPI in alignment with the International Standard Industrial Classification of All Economic Activities (ISIC) Revision 5, developed by the United Nations Statistics Division (UNSD).

2. Curacao:

Recent - With a population of just 156,000, Curacao has qualified for the 2026 FIFA World Cup, becoming the smallest country in history to reach the tournament.

Curacao is an island country situated in the south Caribbean Sea, about 60 km north of the coast of Venezuela.

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It is also a territorial country of the Netherlands.

The country includes the main island of Curacao and the island of Klein Curacao, which cover a combined total area of 171 square miles.

3. BvS10 Sindhu:

Recent - Infrastructure major Larsen & Toubro Ltd. (L&T) and BAE Systems recently bagged a contract from the Indian Army for supply of BvS10 Sindhu – a specialised all-terrain armoured vehicle, according to a regulatory filing.

The BvS10 is a well-known articulated all-terrain vehicle used by several European militaries.

The BvS10 is already in service with the armed forces of Austria, France, the Netherlands, Sweden, Ukraine, and the United Kingdom.

It's also on order for the German Army and has been selected for the US Army's Cold Weather All-Terrain Vehicle (CATV) program.

Its design allows for two connected vehicle sections that help it cross difficult terrain that conventional wheeled or tracked vehicles struggle with.

4. BIRSA 101:

Recent - the union Minister of State (Independent Charge) for Science & Technology launched India's first indigenous "CRISPR" based gene therapy for Sickle Cell Disease and named it BIRSA 101.

It is India's first indigenous CRISPR-based gene therapy, designed to treat Sickle Cell Disease (SCD).

The therapy has been named Birsa-101 in honour of the tribal leader Birsa Munda.

Developed by: It is developed by the CSIR-Institute of Genomics and Integrative Biology (IGIB).

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5. Ratanmahal Wildlife Sanctuary:

Recent - A wild tiger has made a return to Gujarat after several decades, establishing a permanent presence in Dahod's Ratanmahal Wildlife Sanctuary.

Location: It is located in the state of Gujarat.

The sanctuary falls on the border of Gujarat with Madhya Pradesh.

It was declared as a wildlife sanctuary in March 1982.

It is also known as "Ratanmahal Sloth Bear Sanctuary," due to its highest population of sloth bears in the state.

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DAILY DOSE

CURRENT AFFAIRS – 21/11/2025

1. Acanthosis Nigricans:

Recent - Acanthosis Nigricans identification in early stages gives both children and adults a chance to detect prediabetes or diabetes before any major complications.

It is a skin condition characterised by dark, velvety patches on skin folds.

Causes: It can be obesity, insulin resistance, metabolic syndrome, diabetes mellitus and extremely rarely, in melanomas, stomach or liver malignancies.

2. Protidricerus albocapitatus:

Recent - scientists have discovered a new species of owlfly in Kerala after 134 years and named it Protidricerus albocapitatus.

It was found in the Nedumkayam forest in Malappuram district of Kerala.

It is a species of owlfly belongs to the family Myrmeleontidae and order Neuroptera.

With this addition, Kerala now hosts five known species of owlflies, and India's total rises to 37.

Appearance: It has white tufted head and clubbed antennae.

3. Global Methane Status Report:

Recent - The recent Global Methane Status Report 2025 warns that crop-residue burning is turning India into a global methane hotspot.

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It is produced by the UN Environment Programme and the Climate and Clean Air Coalition (CCAC).

It provides updates on global progress on methane mitigation and the remaining work needed to achieve the Global Methane Pledge.

4. West Seti Hydropower Project:

Recent - Nepal has extended the date for survey license for West Seti Hydropower Project being developed by NHPC and approved to work for a direct agreement for another by SJVN with an aim to facilitate Indian power companies to execute projects in the Himalayan nation.

It is planned to be developed as a 750 MW hydroelectric storage project on the Seti River (a tributary of the Karnali River) in Nepal.

Unlike typical run-of-river projects that generate power only based on river flow, West Seti is designed as a storage hydropower project with a large reservoir.

This allows water to be accumulated during the monsoon wet season and enables steady electricity generation throughout the year, including the dry months.

The project is being developed by India's National Hydro Power Corporation Ltd. (NHPC).

5. Meerut Bugle:

Recent - the Meerut Bugle has received a Geographical indication tag.

It is a brass wind instrument common with the drills of armed forces and used in wars, ceremonies, and parades for decades.

It is used to signal the start of movements or events, and carries a deep historical imprint.

Origin: Meerut's association with bugle-making dates back to the late 19th century.

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The bugle's story is closely linked to the development of India's military traditions.

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DAILY DOSE

CURRENT AFFAIRS – 22/11/2025

1. Interstellar Objects:

Recent - the National Aeronautics and Space Administration (NASA) released new images of Comet 3I/Atlas, an interstellar object that astronomers have determined is billions of years old.

Interstellar objects are celestial bodies that originate outside the solar system, and travel through it.

These objects are not gravitationally bound to a star.

They can come from other solar systems and be thrown into interstellar space (the area between the stars) due to collisions or be slingshotted by a planet's or star's gravity.

1I/'Oumuamua(2017), 2I/Borisov (2019) and Comet 3I/Atlas are the recently known interstellar objects.

2. Pharmacogenomics:

Recent - Pharmacogenomics transforms drug therapy from a one-size-fits-all approach to precision medicine, tailoring treatments to individual genetic profiles.

It is the study of how an individual's genetic inheritance affects the body's response to drugs.

Origin of the Word: The term comes from the words pharmacology and genomics and is thus the intersection of pharmaceuticals and genetics.

It is part of the growing medical areas of genomic medicine and precision medicine (also called personalized medicine).

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This is a treatment that's personalized based on your genes, environment and lifestyle.

3. Joint Crediting Mechanism:

Recent - the Union Minister for Environment, Forest and Climate Change participated in the 11th Joint Crediting Mechanism (JCM) Partner Countries' Meeting.

It was first proposed by the Government of Japan and was officially launched in 2013.

Aim: It is a Japanese initiative that aims to facilitate diffusion of leading decarbonizing technologies and infrastructure through investment by Japanese entities and contributes to sustainable development of partner countries.

4. Indian Pond Heron:

Recent - Recent citizen-science data from Visakhapatnam suggests that pond herons and cattle egrets may be undertaking regular seasonal journeys along the East coast, reviving a 30-year-old mystery from Chennai.

Indian Pond Heron or paddybird (*Ardeola grayii*) is a small heron of Old World origins belonging to the family Ardeidae.

It acquires maroon hair like plumes on back and a long occipital crest during breeding season.

5. Enceladus:

Recent - Scientists analyzing NASA Cassini data recently identified previously unknown organic compounds in ice particles emitted from Saturn's moon Enceladus.

It is the second nearest of the major regular moons of Saturn and the brightest of all its moons.

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It is Saturn's sixth-largest moon.

It was discovered in 1789 by the English astronomer William Herschel and named for one of the Giants (Gigantes) of Greek mythology.

It measures about 500 km in diameter.

It orbits Saturn in a prograde, nearly circular path at a mean distance of 238,020 km.

Enceladus is tidally locked with Saturn, keeping the same face toward the planet.

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DAILY DOSE

CURRENT AFFAIRS – 24/11/2025

1. African Grey Parrot:

Recent - There are no registered breeders or authorised pet shops to sell African grey parrots (*Psittacus erithacus*) – one of the most easily procurable animals in the country.

It is a medium-sized, dusty-looking gray bird.

Scientific Name: *Psittacus erithacus*

It is one of the most talented talking/mimicking birds on the planet.

African grey parrots are native to West and Central Africa.

They inhabit different types of lowland forest, including rainforest, woodlands, and wooded savannah.

2. Hussain Sagar Lake:

Recent - In a fresh move to tackle algal blooms, persistent foul odour and declining water quality in Hussainsagar lake, the Hyderabad Metropolitan Development Authority (HMDA) proposes to introduce an advanced bioremediation process using enzyme solutions and biochar-based Bokashi balls.

It is an artificial lake located in Hyderabad, Telangana.

It is also called Tank Bund and lies on a tributary of River Musi.

It spreads across an area of 5.7 sq.km. It is one of the largest man-made lakes in Asia.

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It is the largest heart-shaped mark among the marks formed by 78 heart-shaped lakes and 9 heart-shaped islands on the face of the earth.

It was built during the reign of Ibrahim Quli Qutub Shah by Hussain Shah Wali in 1562 AD.

It is renowned for its monolith of Lord Buddha that stands right in its centre.

3. Moss:

Recent - a team of scientists has found that moss can survive a prolonged trip to space.

It is a small nonvascular spore-bearing land plant belongs to the taxonomic division Bryophyta.

It is among the earliest land plants and has colonised some of the harshest environments on the planet, including Antarctica, volcanic fields, and deserts.

Mosses existed as early as the Permian Period and more than 100 species have been identified from fossils of the Paleogene and Neogene periods.

4. Limestone:

Recent - The first-ever auction of limestone mineral blocks in the Union Territory of Jammu & Kashmir will be formally launched in Jammu.

Limestone is a sedimentary rock made of calcium carbonate (CaCO_3), usually in the form of calcite or aragonite.

It occurs across almost all geological sequences from Pre-Cambrian to Recent, except in Gondwana formations.

It contains considerable amounts of magnesium carbonate (dolomite).

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It also contains minor constituents of clay, iron carbonate, feldspar, pyrite, and quartz.

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DAILY DOSE

CURRENT AFFAIRS – 25/11/2025

1. Capital Gains Account Scheme (CGAS), 1988:

Recent - The Ministry of Finance recently notified the Capital Gains Accounts (Second Amendment) Scheme, 2025, introducing changes to the Capital Gains Account Scheme (CGAS), 1988.

It was introduced by the Central Government in 1988 to help taxpayers claim exemptions on long-term capital gains.

Under Section 54 of the Income Tax Act, income from capital gains must be reinvested within 3 years to avoid tax liability.

However, there could be instances when the due date for filing income tax falls during this specified tenure.

If a taxpayer is unable to invest in such a short period of time, they can deposit such underutilised capital gains under CGAS.

2. Auramine O:

Recent - India continues to face recurring episodes of chemical adulteration in food, particularly through the use of non-permitted synthetic dyes and one of the most persistent among them is auramine O.

It is a synthetic yellow dye produced from compounds such as dimethylaniline and formaldehyde.

The dye appears as yellow flakes or powder and dissolves easily when mixed with solvents.

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It is not approved for use as a food colour in India, the European Union, and the United States.

Applications of Auramine O: It is extensively used in industry, including textile and leather processing, printing inks, paper manufacturing, and certain microbiological staining procedures.

3. Postojna Cave:

Recent - Researchers from Poland, the United States, and Slovenia recently worked out exact equations for stalagmite shapes, then checked them on real cave specimens from Postojna Cave in Slovenia.

It is located in western Slovenia.

It is a 24 km long cave carved out by the Pivka River over millions of years.

It's made of limestone, and each 1 cm of growth takes around 100 years.

The Pivka River enters the Postojna cavern 18 m below its mouth, runs underground, and reappears as a spring in the Planina Plain.

4. Pazhayar River:

Recent - Rampant discharge of sewage and untreated water into the Pazhayar river at several places in Nagercoil has raised serious concerns among residents about the river's future and measures being taken to curb the pollution.

It is a major river flowing in the Kanniyakumari district of Tamil Nadu.

It originates from the slopes of Mahendragiri hills at an altitude of 800 m above M.S.L.

It flows towards southwestern direction and joins the Arabian Sea near Manakudi.

The total length of the river is 40 km.

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Alathurayar, Poigaiyar, Thadaveyar, Koya odai, and Ulakkaruviyar are the major tributaries of the Pazhayar River.

5. HAMMER Weapon System:

Recent - Bharat Electronics Limited and Safran Electronics and Defence (SED) signed a joint venture cooperation agreement for the production of the HAMMER Weapon System in India.

The HAMMER (Highly Agile and Manoeuvrable Munition Extended Range) is an air-to-ground precision-guided weapon system developed by Safran, a French aerospace and defence company.

It is also known as a glide bomb.

Features of HAMMER Weapon System

Range: HAMMER precision-guided munitions have a range of up to 70 km.

It can be fitted to standard bombs of 250kg, 500kg, and 1,000kg weights.

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DAILY DOSE

CURRENT AFFAIRS – 26/11/2025

1. Manchurian Walnut Tree:

Recent - researchers found that plant leaves from the Manchurian walnut tree showed extraordinary weed-killing potential.

It is a hardy deciduous tree known for its robust growth and adaptability to a range of soil types.

Distribution: It is found in Manchuria (China) and also grows on the Korean Peninsula and in the Far East of Russia.

The Manchurian nut tree likes well-drained fertile soils with a neutral PH reaction.

It is very cold-resistant and can withstand frost down to -45°C .

Under natural conditions it can reach upto 30 m, and the life expectancy is high – up to 300 years.

2. Cuban gar:

Recent - Cuban scientists have taken restoration efforts in Cuba's Zapata Swamp to save the Cuban gar from extinction.

The Cuban gar (*Atractosteus tristoechus*), also known as the manjuarí, is a fish in the family Lepisosteidae.

This fish is part of a family called "gars," which have been around for about 100 million years.

It is a tropical, freshwater species, although it also inhabits brackish water.

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It is also notable for its high tolerance of high ammonia and nitrate levels in water.

3. Abujmadiya Tribe:

Recent - the Bastar Olympics' tournament has seen increasing participation of the Abujmadiya tribe.

They are an ancestral and patriarchal tribe primarily residing in the Abujmarh region in Chhattisgarh, India.

Abujmadiya tribal community is a sub-group of Gond tribe of Central India region.

It is a Particularly Vulnerable Tribal Group (PVTG).

Language: They speak Abuj Maria, Hindi or Chhattisgarhi.

4. Hoya dawodiensis:

Recent - Arunachal Pradesh recently reported a major scientific milestone with the discovery of a new plant species, Hoya dawodiensis.

It is a new plant species.

It was discovered in the Vijaynagar region in Changlang district, Arunachal Pradesh.

Vijaynagar landscape, accessible only by air or multi-day treks, remains one of the least explored but biologically richest regions of the state.

5. Ningaloo Reef:

Recent - A new survey finds nearly 70% of corals at UNESCO-listed Ningaloo Reef have died.

It is located on Western Australia's remote coast along the East Indian Ocean.

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It is Australia's largest fringing coral reef, extending across 300 kilometres of coastline.

It is one of the world's most pristine, longest, and largest coral reefs.

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DAILY DOSE

CURRENT AFFAIRS – 27/11/2025

1. Mekedatu Dam Project:

Recent - the Karnataka government decided that it would submit a “revised” Detailed Project Report (DPR) to the Centre on the Mekedatu balancing reservoir across the interstate river Cauvery.

It is a multi-purpose (drinking water and power) project involving the construction of a balancing reservoir near Kanakapura in the Ramanagara district, Karnataka.

It is about 90 km away from Bengaluru and 4 km ahead of the border with Tamil Nadu.

The project is proposed at the confluence of the Cauvery River with its tributary Arkavathi.

2. Hawfinch:

Recent - A Hawfinch bird, a species native to Europe, North Africa, and East Asia, was recently recorded at Jim Corbett National Park in Uttarakhand.

It is a large passerine bird native to Europe, North Africa, and East Asia.

It is the biggest bird of the Fringillidae family.

Scientific Name: *Coccothraustes coccothraustes*.

3. Bnei Menashe:

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Recent - Israel's government recently approved a proposal to bring all the remaining 5,800 Jews from India's north-eastern region, commonly referred to as Bnei Menashe, over the next five years.

Bnei Menashe is an ethnic community that hails from the northeastern states of Mizoram and Manipur.

They claim to be the descendants of the biblical tribe of Manasseh, considered one of the "lost tribes" of Israel.

They are Christians converted into Jews and observe traditional Jewish practices and celebrate holidays such as Sukkot.

Historians believe this community may have arrived in India within the last 300–500 years.

4. Entrepreneur-in-Residence Programme:

Recent - the Union Minister of State for Science & Technology said that the Entrepreneur-in-Residence (EIR) Programme is gaining popularity among young startups, innovators.

It is one of the programs introduced under National Initiative for Developing and Harnessing Innovations (NIDHI).

It aims to encourage graduate students to take to entrepreneurship as a prospective career option by providing financial and non-financial support in the form of a fellowship.

5. Young Stellar Objects:

Recent - a team of researchers has decoded the early lives of young stars called Young Stellar Objects (YSO) using a decade of data from NASA satellites Wide-field Infrared Survey Explorer (WISE) and its extended mission NEOWISE.

These are stars in the earliest stages of their lives where stars stably fuse hydrogen in their cores.

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This is the stage before the stars enter the main sequence of what is called the Hertzsprung-Russell diagram (a plot showing stars in various stages of evolution based on their temperature and brightness).

These objects typically reside within dense molecular clouds rich in gas and interstellar material.

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DAILY DOSE

CURRENT AFFAIRS – 28/11/2025

1. Arunachalesvara Temple:

Recent - Encroachments around Arunachaleswarar Temple in Tiruvannamalai town were demolished recently to provide more road space for pilgrims during the Karthigai Deepam festival.

It is a Hindu temple located at the base of Arunachala Hill in Tiruvannamalai in Tamil Nadu.

It is dedicated to Lord Arunachalesvara, a form of Lord Shiva.

The temple's origin dates back thousands of years, with references in ancient scriptures and Tamil Saiva texts.

The current structure, however, was built during the period of the early Chola kings (9th century AD), expanded during the period of the later Cholas, Hoysala (Bhosala) kings, and Vijayanagarar Nayakar kings.

2. Vitamin B12:

Recent - Vitamin B12 deficiency often first appears as skin changes like hyperpigmentation, dryness, or paleness, indicating poor oxygen and nutrient delivery to skin cells.

It is a water-soluble vitamin.

It is also called cobalamin.

It is a vitamin the body uses to make and support healthy nerve cells.

It's also used to make healthy red blood cells and the genetic material inside cells called DNA.

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Your body cannot produce B12 on its own, so it must be obtained through foods high in vitamin B12 or supplements.

It is naturally found in animal foods such as fish, meat, poultry, eggs, milk, and milk products.

3. Aloe Vera:

Recent - Computer simulations suggest that common plant molecules from Aloe vera might block enzymes tied to Alzheimer's disease.

It is a succulent plant belonging to the Aloaceae family, known for its medicinal and therapeutic properties.

Scientific Name: Aloe barbadensis Mill.

It is native to the arid, desert regions of the Arabian Peninsula, particularly in Oman, Yemen, and Saudi Arabia.

It thrives in hot, dry climates with well-drained, sandy, or rocky soils.

4. Grey Seal:

Recent - researchers found that seal milk comprises 332 different kinds of oligosaccharides.

It is a large seal of the family Phocidae.

It is also known as the Atlantic seal and the horsehead seal.

It is found on both shores of the North Atlantic Ocean.

Distribution: They are found across the North Atlantic Ocean in coastal areas from mid-Atlantic to the Baltic Sea.

Habitat: These seals spend the majority of their lives in coastal waters; when on land, they occur on rocky coasts, islands, and sandbars, as well as on ice shelves and icebergs.

Conservation Status: IUCN: Least Concern.

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DAILY DOSE

CURRENT AFFAIRS – 29/11/2025

1. MH-60R Seahawk Helicopter:

Recent - India sealed a ₹7,995-crore deal with the U.S. as part of a “follow on support” package for the Indian Navy's fleet of 24 MH-60R Seahawk helicopters for five years.

It is often called the “Romeo” is a state-of-the-art naval helicopter.

It is manufactured by US defence major Lockheed Martin.

All Weather Capability: It is an all-weather helicopter designed with state-of-the-art avionics and sensors.

Multi mission: It is designed for anti-submarine warfare (ASW), anti-surface warfare (ASuW), maritime surveillance, search and rescue, medical evacuation, and ship-borne operations.

2. National Mission for Mentoring:

Recent - the University Grants Commission (UGC) has called on all higher educational institutions (HEIs) across India to nominate teaching faculty under the National Mission for Mentoring (NMM).

It is the flagship initiative of the Department of School Education and Literacy, Ministry of Education.

It is in line with the National Education Policy (NEP) 2020.

It provides platforms for professionals and experts where they can share knowledge, skills and expertise as a Mentor with Mentee teachers and help them in their journey to become effective teachers.

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3. Rustic Bunting:

Recent - Birders recently spotted a rare species, the rustic bunting (*emberiza rustica*) at Najafgarh Jheel on the Delhi-Gurugram border, marking the first time the passerine bird, which is also elusive across India, was spotted in the national capital region (NCR).

It is a passerine bird in the bunting family *Emberizidae*.

Scientific Name: *Emberiza rustica*

Its breeding range extends from the Nordic regions to eastern Siberia.

It migrates to southeast Asia and parts of East Asia, including Japan, Korea, and eastern China, during the winter months.

There are only a handful of records of it being seen across India - predominantly in the northeast and across the Himalayan belt.

4. India Internet Governance Forum:

Recent - the fifth edition of the India Internet Governance Forum (IIGF-2025) concluded with a clear vision for inclusion, stronger digital infrastructure and responsible AI.

It is the Indian chapter of the United Nations Internet Governance Forum (UN IGF) which was established in 2021.

It is a global multi-stakeholder platform that fosters dialogue on public policy issues related to the Internet.

It aims to maximize the opportunities of the Internet while addressing associated challenges and risks.

5. Syntactic Foam:

Recent - A crucial set of tests on the *Samudrayaan*, India's first manned-submersible dive into the ocean, is likely only mid-next year

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following a delay in the procurement of syntactic foam cladding from France.

A syntactic foam is a composite material that is produced by filling a metal, polymer, or ceramic with pre-formed inorganic hollow spheres known as micro balloons.

‘Syntactic’ is a term that refers to the ordered positioning of the spheres, and the word ‘foam’ alludes to the closed cellular structure.

Most of the advantageous features of the material are a result of the hollow spheres inside of the syntactic foam.

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