



NOVEMBER MONTHLY CURRENT AFFAIRS-2023

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Phone : 8608830102 | 9047051911



NOVEMBER MONTH CURRENT AFFAIRS - 2023

TAMIL NADU

Namma salai app

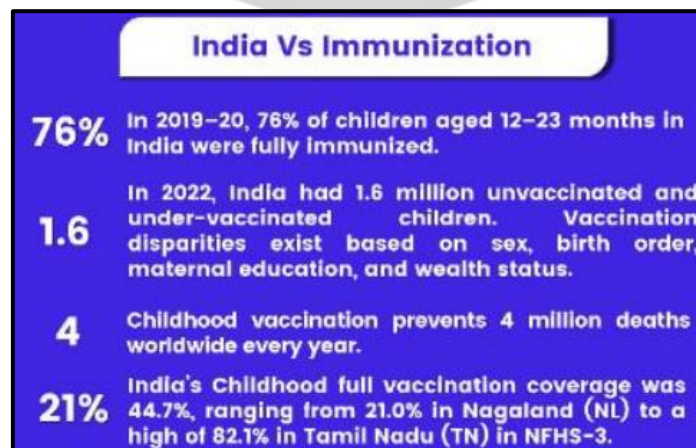
1. Tamil Nadu Government launched a mobile application 'Namma Salai' that **helps identify potholes** in the city with public inputs.
2. It aims to **achieve the goal of an 'accident-free'** Tamil Nadu and **ensure potholefree roads**.

Tamil Nadu Digital Transformation Strategy

1. **Tamil Nadu Government** has released the Tamil Nadu Digital Transformation Strategy.
2. It is expected to **improve the efficiency of governance and administration**.
3. It aiming at **improving accessibility, transparency, efficiency** and accountability to citizens.
4. It **focuses on strengthening the ecosystem** and developing talent pool and incubation centres to **make Tamil Nadu a hub of innovation and entrepreneurship**.

Overall immunization coverage 2023

1. Tamil Nadu's overall immunization coverage **has crossed 95%**.





NOVEMBER MONTH CURRENT AFFAIRS - 2023

Justice Chandru panel recommendations

1. Justice Chandru was appointed as the **one-man committee** to **study the state of juvenile homes**, special homes and places of safety.
2. He recommended measures like **bifurcating the Directorate** of Social Defence, **establishing one childcare home** per district, **improving nutrition and facilities** in the homes among others.

Justice K. Chandru submitting the one-man panel's report to Chief Minister M.K. Stalin at the Secretariat.

- The affairs of the homes should be monitored daily through a special monitoring room
- Each home should have a medical doctor, a psychologist and a qualified counsellor
- A training academy should be set up for staff
- Admission certificate should be given to parents of CCL
- Each home must have a de-addiction centre
- CCL should be provided with recreation facilities and allowed to play on open ground

SC on Tamil Nadu Governor

Discretionary powers		Execution of discretion beyond the constitutional permissibility is considered an attack on the elected government of the State and people's mandate
CONSTITUTIONAL DISCRETION OF GOVERNORS INCLUDES	SITUATIONAL DISCRETION OF GOVERNORS	
<ul style="list-style-type: none">○ When they have to reserve the Bill for the consideration of the President○ When he has to recommend for President's rule in the State○ When given additional charge as administrator of union Territory	<ul style="list-style-type: none">○ For appointing Chief Minister after no party get clear majority or when the incumbent dies in the office○ When he dismisses Council of Ministers on an inability to prove confidence in the legislative Assembly○ When he dissolves the Assembly when it loses its majority	

1. The Supreme Court held that, the Constitution does not provide **Governor “discretion” to withhold the 10 Bills “re-passed”** by the State Legislative Assembly.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. Once they have been re-passed, these Bills are put in the same footing as Money Bills.

Health walk stretch

1. Chief Minister launched **the ‘health walk’ initiative** in Chennai and **37 districts**.
2. Tamil Nadu is the **first State to have an 8-km stretch** in every district for walking.
3. It is **inspired by** an eight-km walking **track of Tokyo, Japan**.
4. Walking for eight kilometres everyday **equals 10,000 steps**.

India’s first ‘Net Zero Carbon’ rating system

1. Tamil Nadu plans to achieve Net Zero [emission] at least a decade ahead of 2070.
2. The **21st Green Building Congress 2023** event was organised by the **Confederation of Indian Industry’s (CII)** in Chennai.
3. In an effort to **achieve the Net-Zero Carbon** Emission goal, the **Indian Green Building Council** announced India’s first ‘Net Zero Carbon’ rating system in the event.

Intelligent Transport System

1. The pilot project of the Intelligent Transport System for the city, with **funding from the Japan International Cooperation Agency (JICA)**, is set to be implemented by the Greater Chennai Corporation (GCC).
2. The initiative **aims to enhance traffic management** and **reduce signal stopping** times, contributing to improved commuter and motorist experiences.

Ungalai Thedi, Ungal Ooril

1. Tamil Nadu Chief Minister M.K. Stalin is set to launch a novel scheme Ungalai Thedi, Ungal Ooril (**In your town, looking for you**) next

NOVEMBER MONTH CURRENT AFFAIRS - 2023

month, which **aims to redress the grievances of the general public** expeditiously.

2. Under this initiative **every District Collector will visit and stay in a taluk for one day in a month** to inspect government offices in that area and listen to the grievances of the general public.



STATE

Hostile Activity Watch Kernel (HAWK) system

1. The **Karnataka Forest Department, along with the Wildlife Trust of India**, has launched the Hostile Activity Watch Kernel (HAWK) system.

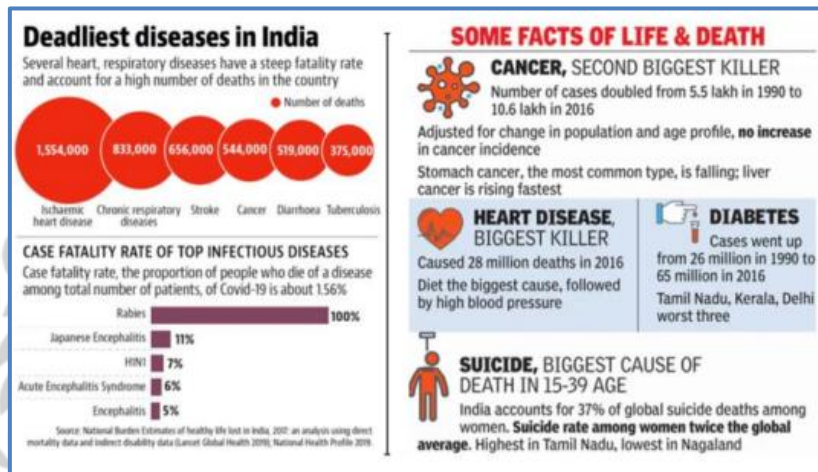


2. It is a **specialised software** platform to **monitor all aspects of forest and wildlife crime**.
3. The system would help the department monitor activities such as the **death of wildlife, suspected criminal activities**, and the movement of suspicious vehicles.

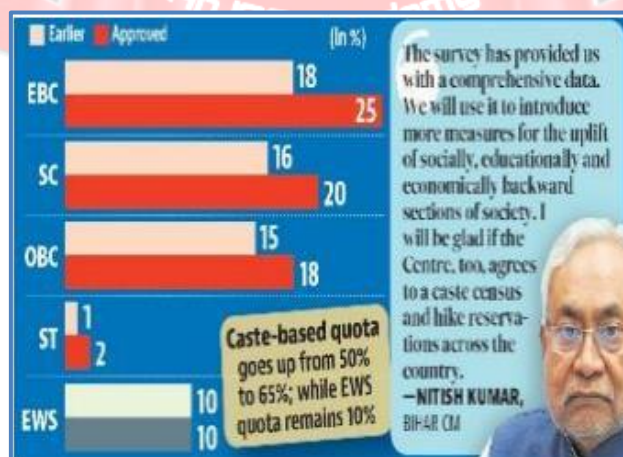
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Highest cancer rate in India

1. Despite being the country's second least populated State, **Mizoram exhibits the highest incidence rate of cancer** in India.
2. **Stomach cancer** emerging as the primary cause of cancer-related deaths among men, while **lung cancer** plays a parallel role among women.
3. The incidence of cancer cases is **estimated to increase by 12.8 per cent in 2025** as compared to 2020.



Increasing reservation ratio



1. The Reservation Amendment Bill, seeking an increase in **reservation in government jobs and educational institutions in Bihar**, was passed recently.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. This will increase reservations for the SC, ST, OBC and Extremely Backward Classes, to **65 per cent** in the state.
3. This is **increase from the 50 per cent ceiling** set by the Supreme Court.

Uttarkashi Tunnel Collapse

1. An under-construction tunnel on the **Brahmakhal - Yamunotri National Highway** in **Uttarkashi district** partially collapsed.
2. The tunnel is meant to **connect Silkyara to Dandalgaon** in Uttarakhand's Uttarkashi.
3. It is being **built under the Char Dham Road Project** and aims to **reduce the journey** from Uttarkashi to Yamunotri Dham by **26 kilometres**.
4. Among the different rescue techniques, **rat-hole mining (manual drilling)** is considered to be the most dangerous and risky.
5. Rat-hole miners were the **last resort of the rescue operation**.
6. Rat hole mining is largely prevalent in **Meghalaya, particularly West Jaintia Hills, East Jaintia Hills and West Khasi Hills**.





NOVEMBER MONTH CURRENT AFFAIRS - 2023

Best State in Inland Fisheries

1. **Uttar Pradesh** was honored with the Best State-Inland Fisheries Award at the Global Fisheries Conference 2023.

State fish of Gujarat

1. **Ghol fish** was declared the state fish of Gujarat by Chief Minister during a two day **Global Fisheries Conference India 2023** in **Ahmedabad**.
2. The fish is found in the **marine areas of Gujarat and Maharashtra** in a goldenbrown colour.
3. Ghol fish is **used to make beer and wine** and its **air bladder is used in pharmaceuticals**.

Bihar's demand for Special Category Status



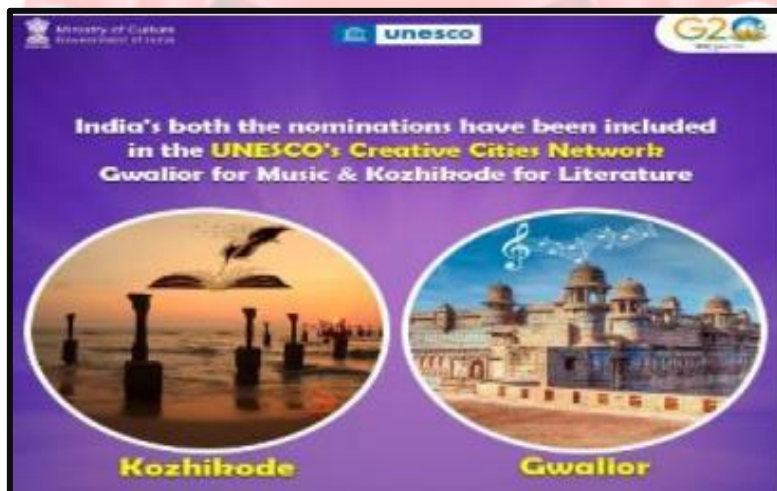
1. The state Cabinet passed a resolution seeking the **grant of special category status (SCS)** to Bihar.
2. Nearly **one-third** of Bihar's population continues **to live in poverty**.
3. Special category status is a **classification granted by the Centre** to assist the **development of States that face geographical or socio-economic disadvantages**.
4. The SCS was introduced in **1969** on the recommendation of the **fifth Finance Commission (FC)**.
5. Five factors such as
 - Hilly and difficult terrain

NOVEMBER MONTH CURRENT AFFAIRS - 2023

- Low population density and/or sizeable share of tribal population
- Strategic location along international borders
- Economic and infrastructural backwardness and
- Non-viable nature of state finances, are considered before granting SCS.

India's First 'City Of Literature & Music' By UNESCO

1. **Kozhikode**, a city located in the **southern Indian state of Kerala**, has made its **mark on the global stage** by being named one of the latest entrants into the **UNESCO Creative Cities Network**.
2. Kozhikode's new title as the **'City of Literature'** marks a significant milestone, as it's the **first city in India to hold this coveted distinction**.
3. This prestigious recognition was bestowed upon Kozhikode on World Cities Day, alongside **Gwalior in Madhya Pradesh, which was recognized as a 'City of Music'**.
4. **Prague was the first city to receive the City of Literature** title in 2014.





NOVEMBER MONTH CURRENT AFFAIRS - 2023

NATIONAL

One Nation One Registration Platform

1. The **National Medical Commission** (NMC) is all set to launch its “one nation, one registration platform” **for doctors** across the country.
2. It aims to **eliminate duplication, red tape** and **allow the public to access information** on any physician working in India.



World Food India 2023

1. The **three-day** “2nd World Food India 2023” was held in **New Delhi**.
2. **It aims to showcase India** as the “**food basket of the world**” and celebrate **2023 as the International Year of Millets**.
3. The **Netherlands** was served as the **partner country**, while **Japan was the event's focus country**.
4. The **first edition** of the event was held in **2017**.

State Food Safety Index 2022-2023

1. After 4 years, the Food Safety and Standards Authority of India (FSSAI) published a state-wise index **to spur food safety improvement**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. **19 out of 20 large states** - including Maharashtra, Bihar, Gujarat and Andhra Pradesh - **recorded a drop** in their 2023 scores from 2019.
3. After adjusting for a **new parameter included** in the 2023 index, **15 out of 20 states** recorded **lower 2023 scores** compared to 2019.
 - **Gujarat and Kerala** - top performers in Food Testing Infrastructure category.
 - **Punjab and Himachal Pradesh** - the highest scores in Compliance parameter.
 - **Tamil Nadu** - leading state in consumer empowering initiatives.

STATES WITH STEEPEST INDEX FALL			SAFETY MEASURE	
State	2019	2023	Parameter	Weight
Maharashtra	74	45	Compliance	28
Bihar	46	20.5	Consumer Empowerment	19
Gujarat	73	48.5	Human Resources and Institutional Data	18
Andhra Pradesh	47	24	Food Testing Infrastructure	17
Chhattisgarh	46	27	Improvement in SFSI Rank (added in 2023)	10
			Training and Capacity Building	8
			TOTAL	100

Source: SFSI reports; all scores out of 100

Category- Union Territories	
Name	Rank
Jammu & Kashmir	1
Delhi	2
Chandigarh	3

Category- Small States	
Small State	Rank
Goa	1
Manipur	2
Sikkim	3

Category- Large States	
Large State	Rank
Kerala	1
Punjab	2
Tamil Nadu	3

NOVEMBER MONTH CURRENT AFFAIRS - 2023

ENCORE - Election Commission of India

1. The Election Commission of India has designed **in-house software** for **complete Candidate and election management** through 'ENCORE'.
2. 'ENCORE' stands for **Enabling Communications on Real-time Environment**.
3. This provides a **seamless facility for Returning Officers** to process candidate nomination, affidavit, Voter turnout, counting, results and data management.



Dayapar Wind Project



1. **NTPC Renewable Energy Limited**, commenced the commercial operation of its **first wind project of 50 MW at Dayapar in Kachch, Gujarat.**



NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. Dayapar Wind is the first project of NTPC REL and the first capacity in India to be declared commercial.

6th Most hard-working country

1. The data from the **International Labour Organization** (ILO) reveals that **Indians are among the hardest workers globally**.
2. They dedicating an average of **47.7 hours per week per employed individual** as of 2023.
3. This is **higher than the U.S.** (36.4), the **UK** (35.9), and **Germany** (34.4).
4. They also work **more than other Asian countries** such as China (46.1), Singapore (42.6), and Japan (36.6).

India - CITES RST

1. India has been **removed from Review of Significant Trade** (RST) for **Red Sanders**, under Convention on International Trade in Endangered Species (CITES) .
2. This can be a **major boost to farmers** who grow Red Sanders for export.
3. **India** was under the Review of Significant Trade (RST) process for Red Sanders **since 2004**.
4. **Red sander (Pterocarpus santalinus)** is a high market value tree, endemic to **few districts in Andhra Pradesh**.





NOVEMBER MONTH CURRENT AFFAIRS - 2023

4th Anti-Submarine Warfare Craft

1. The Indian Navy launched its most advanced and state-of-the-art **anti-submarine warfare** shallow watercraft, named **Amini**.
2. The vessel is named after a **strategically important** island in the **Lakshadweep archipelago** on India's western coast.

Nayi Chetna - 2.0

1. Nayi Chetna - 2.0' will be launched on the **International Day for the Elimination of Violence against Women - 25 November**.
2. It aims to **advance the rights of women** and **gender-diverse individuals**, promote a life free from fear and gender-based discrimination and violence.
3. More than **77% women still do not report** or talk about their experience of violence in India.

Tantalum deposit

1. Researchers from **IIT Ropar, Punjab**, has discovered the presence of a **rare metal called Tantalum, in the Sutlej River**.
2. Tantalum was discovered first by a **Swedish scientist named Anders Gustaf Ekenberg** in **1802**.



3. Tantalum is widely **used in electronics and semiconductors**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

4. Tantalum is a **rare metal and is grey, heavy, very hard**, and is known for being one of the **most corrosion-resistant metals**.
5. It can be stretched, pulled and drawn into a thin wire or thread without breaking.
6. It has an extremely **high melting point**.

Committee for Madiga community

1. The Union Government ordered to expedite the **process of sub-categorisation in reservation** for the Madigas.
2. The Madiga community is a **Telugu caste**, mainly living in the **southern states of Telangana, Andhra Pradesh, and Kamataka**.
3. However, Madigas also live in **Tamil Nadu, Maharashtra and Odisha**.
4. The community has **historically worked in handicraft, leatherwork, tannery, and agriculture**.
5. The Indian government categorises the community within the **SC category**.
6. As per the **2011 census**, the Madiga community in the undivided Andhra Pradesh (before the creation of Telangana) constituted more than **48% of the SC population**.

NARROWING DIVIDE
54L SC population in T
11% of there are Madigas and 5% Malas
➤ Justice Ramachandra Raju Commission had divided sub-castes in four groups - A,B, C, and D in undivided Andhra Pradesh
➤ Division based on backwardness
➤ The categorisation was then struck down by SC

NOVEMBER MONTH CURRENT AFFAIRS - 2023

Jal Diwali - "Water For Women, Women For Water Campaign"

1. The **Ministry of Housing and Urban Affairs** (MoHUA) is poised to introduce a **groundbreaking initiative** called the "**Women for Water, Water for Women Campaign.**"
2. This campaign, known as "**Jal Diwali,**" is scheduled in collaboration with the **Ministry's National Urban Livelihood Mission** (NULM) and in partnership with the **Odisha Urban Academy.**
3. The primary **aim** of the campaign is to **provide a platform for the active participation of women in water governance.**



Bharat Gaurav Tourist Train

1. **Indian Railways** in collaboration with **IRCTC** to launch Bharat Gaurav Tourist Train in a move to **promote Dekho Apna Desh and Ek Bharat Shreshtha Bharat initiatives.**
2. Departing from **Chhatrapati Shivaji Maharaj Terminus**, the circular route will **cover iconic destinations** such as Mumbai, Pune, Solapur, Guntakal, Renigunta, Rameshwaram, Madurai, Kanyakumari, Kochuveli, and back to CSMT.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

Barda Wildlife Sanctuary

1. After **Gir National Park and Sanctuary**, the Barda Wildlife Sanctuary (BWLS) is set to become the **second home to Asiatic lions**.
2. The **Gujarat Forest Department** presented its proposal to make BWLS the second home to the lions as **part of "Project Lion @ 2047"**.
3. **Project Lion** is an initiative launched by the Government of India **in 2021** to **conserve and protect the Asiatic Lion** and its habitat.



India's Largest Tiger Reserve

1. **Damoh district in Madhya Pradesh** is poised to become the **home of the country's largest tiger reserve**, marking a significant stride in wildlife conservation efforts.
2. The central government has green-lit the **merger of Noradehi Sanctuary with the Durgavati Sanctuary in Damoh**, creating an expansive tiger reserve spanning an impressive **2,300 square kilometers**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

IIT Madras Launches Incubator Information Platform

1. In a game-changing move, the **Centre for Research on Startups and Risk Financing (CREST)**, an **Institute of Eminence Research Centre at IIT Madras**, has introduced an **exclusive information platform** tailored for incubators and accelerators.
2. **India's first information platform on Incubators & Accelerators** with approximately **1,000 active incubators** in India, the platform addresses the historical challenge of scattered information by providing a centralized hub for comprehensive details.



IIT Madras Sets Its First International Campus

1. **IIT Madras** has become the first Indian Institute of Technology to establish an international campus on the **picturesque Zanzibar Island in East Africa**.
2. IIT Madras Zanzibar Campus is offering Bachelor of Science (BS) and Master of Technology (MTech) programs, with a **focus on Data Science and Artificial Intelligence (AI)**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

INTERNATIONAL

Sponge Bombs

1. The **Israeli forces** are reportedly making "sponge bombs" to tackle the **Hamas challenge**.
2. These are the **chemical weapon** and are **different from traditional explosives**.



Turkish Republic's 100th Anniversary

1. This year **29th October** marks **100th anniversary** of the **Turkish Republic**.
2. This modern government **replaced the Ottoman Empire**.

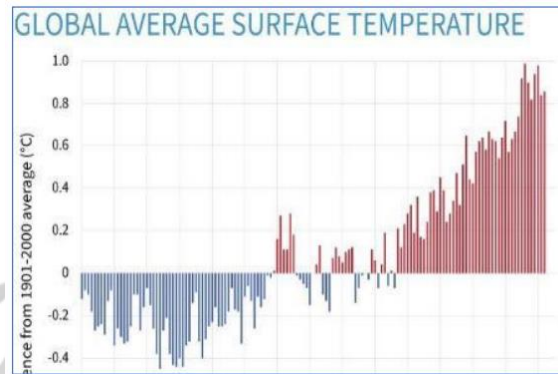
Bletchley Declaration

1. The **United Kingdom** hosted the **world's first AI Security Summit**.
2. The "Bletchley declaration" on AI was unveiled at the summit.
3. It encompasses **not only avoiding catastrophe** or threats to life and limb, but also priorities such as **securing human rights and the UN Sustainable Development Goals**.
4. The declaration was **signed by all 27 countries** attending, including the UK, the US, China, and India, as well as the European Union.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

Record-Breaking Global Temperatures

1. The year 2023 is **predicted to be the hottest year** in the **last 125,000 years**.
2. **October 2023** has set a **new record** as the hottest October recorded during this period.



List of 'safe states'

1. The **UK government** has tabled plans to **add India and Georgia** to an expanded list of safe states.
2. It is **aimed at strengthening the country's immigration** system and **help prevent abuse by people** making unfounded protection claims.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

New Volcanic Island - Japan

1. Recently, an **undersea volcano eruption** led to the **creation of a new island** near **Japan's Ogaswara island chain**.
2. The new island was created due to **phreatomagmatic eruptions**.
3. It **happens when magma comes into contact with seawater** and creates explosive bursts of ash and steam.
4. **Iwo Jima** is an **active volcano** to the **south of Ogasawara Island**.
5. It is also about **60 km north** of the **Fukutoku-Okanoba underwater volcano**.



Ben Gurion Canal Project

1. The **205m width Suez Canal** connects the **Red Sea and the Mediterranean Sea**.
2. After the construction of this canal, **trade between South Asia, Southeast Asia and Europe increased**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

Operation 1027

1. "Operation 1027" was launched by the **Three Brotherhood Alliance (3BTA)** .
2. This Alliance comprises the **Myanmar National Democratic Alliance Army (MNDA), the Ta'ang National Liberation Army (TNLA), and the Arakan Army (AA)**.



8th wonder of the world

1. **Angkor Wat**, in the **heart of Cambodia**, has beaten **Pompeii in Italy** to become the eighth Wonder of the World.
2. Eighth Wonder of the World is **an unofficial title** given to new buildings or projects or designs, among others.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

3. Built in the **12th century by King Suryavarman II**, Angkor Wat was originally dedicated to the Hindu deity Vishnu .
4. However, overtime, it was **transformed into a Buddhist temple**.
5. The transition from Hinduism to Buddhism is evident in the intricate carvings that adorn the temple walls, depicting scenes from Hindu and Buddhist mythology.

World's Largest Single-Site Solar Power Plant

1. The **United Arab Emirates** has inaugurated the world's largest single-site solar power plant .
2. The **2-gigawatt Al Dhafra Solar Photovoltaic Independent Power Project (IPP)** is located 35 kilometers from Abu Dhabi city.



World's first 'Near-space command'



1. **China** has reportedly built the **world's first 'near-space command'** equipped with **deadly hypersonic weapons**.
2. The four current branches-Army, Navy, Air Force and Rocket Force.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

3. China's near-space command will be equipped with modern hypersonic missiles to **target critical military assets of enemies.**

Global Fisheries Conference India 2023

1. Union Minister inaugurated 'Global Fisheries Conference India 2023' at Science City in **Ahmedabad.**
2. **Theme: Celebrating Fisheries and Aquaculture Wealth.**



DEFENCE

Exercise MITRA SHAKTI 2023

1. **India - Sri Lanka Joint Exercise MITRA SHAKTI 2023** Commenced.
2. The **ninth edition** of the Joint Military exercise, "Exercise MITRA SHAKTI-2023," has commenced **in Aundh, Pune.**

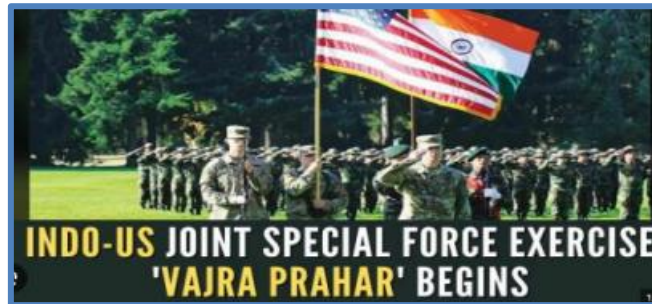


Exercise VAJRA PRAHAR 2023

1. The **14th Edition of the Indo-US Joint Special Forces** exercise, known as "VAJRA PRAHAR 2023," kicked off at the **Joint Training Node in Umroi, Meghalaya.**

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. Exercise VAJRA PRAHAR is a **collaborative effort** between the **Indian Army and the US Army Special Forces**.



SCIENCE AND TECHNOLOGY

CAIPEEX phase – 4



Cloud seeding works if done correctly

Cloud seeding experiments were carried out in Solapur city, which gets less rainfall, from June to September in 2018 and 2019

- There was 18% increase in rainfall over a 100 sq.km area in Solapur city due to cloud seeding
- Approximate cost of producing water through cloud seeding was 18 paise per litre. The cost can drop by over 50% if indigenous seeding aircraft are used
- 20-25% of cumulus clouds produce rainfall if cloud seeding is done correctly
- Cloud seeding alone cannot mitigate droughts but can help produce additional rainfall that can partially address water requirements
- Calcium chloride flare was used for seeding the clouds. The seeding was done at the base of the warm convective clouds and at a time when the clouds were growing
- The study was carried out for two years to understand the microphysics and characteristics of convective clouds that can be targeted to enhance rainfall
- The work provides elaborate protocols and technical guidance to plan and conduct cloud seeding in India

Not all: As microphysics of clouds vary widely, not all clouds produce rainfall through cloud seeding

1. The **experiment - Cloud Aerosol Interaction and Precipitation Enhancement Experiment (CAIPEEX phase - 4)** - was a scientific investigation conducted in **Solapur city**.
2. The **primary objective** was to **investigate the efficacy of hygroscopic seeding** in deep convective clouds and to **develop a cloud seeding protocol**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

3. The study found that cloud seeding is an **effective strategy** for **enhancing rainfall** in a region under suitable conditions.
4. It can help **produce 18% more rainfall** and **partially address water** requirements.
5. **Calcium chloride flare** was used for seeding the clouds.

INFUSE Mission

1. **NASA launched the Integral Field Ultraviolet Spectroscope Experiment (INFUSE) mission.**
2. This mission **aims to study the Cygnus Loop, a supernova remnant** located about **2,600 light years away** from Earth.
3. Since the event, **matter has blown out at a speed of 930,000 mph** (1.5 million kilometers).
4. It is a **rate of speed** which enough to **travel from Earth to the Moon in just minutes.**

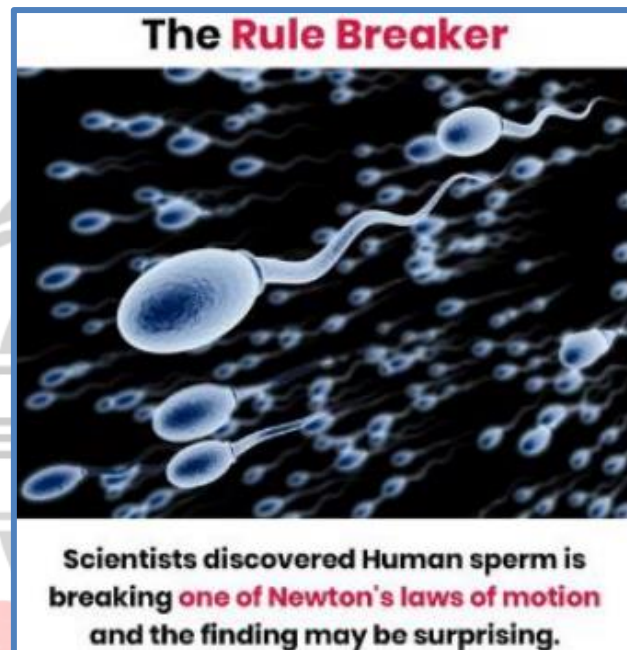


Breaking Newton's laws of motion

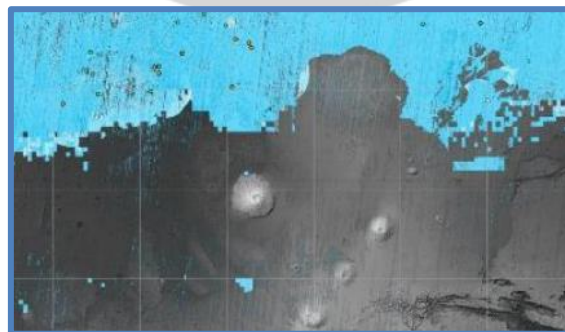
1. Newton 's third law of motion states, "**For every action, there is an equal and opposite reaction.**"
2. But the **biological swimmers** such as **sperm, this may not be the case.**

NOVEMBER MONTH CURRENT AFFAIRS - 2023

3. The **human sperm and Chlamydomonas algae** can **swim by deforming their bodies** in a way that does not elicit a response from their surroundings.
4. Both sperm cells and Chlamydomonas algae **employ hair-like appendages** known as **flagella to facilitate movement** .
5. They **go against Newton's third law** because **they don't trigger** an equal and opposite reaction from their environment.



Subsurface Water Ice Mapping project



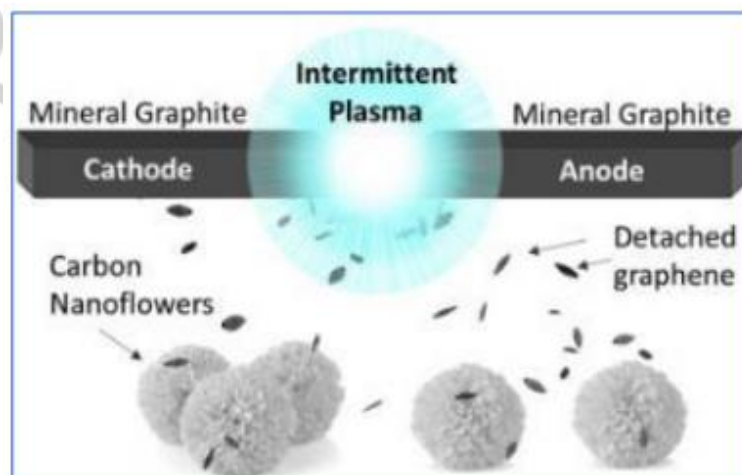
1. The **NASA-funded Subsurface Water Ice Mapping (SWIM)** project released **its fourth and most recent map** of where **on Mars**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. This map will **help mission planners decide where on Mars** to actually **send the first humans to traverse** the planet.
3. The recently released **fourth set of maps** is the most detailed and accurate since the project started in 2017.
4. The new map includes sightings of so-called "**polygon terrain.**"

Carbon nanoflorets

1. **Indian Institute of Technology (IIT) Bombay** have created carbon nanoflorets that can efficiently **convert sunlight into heat.**
2. Carbon nanoflorets are a **unique nanostructure composed of carbon atoms** arranged in a distinctive **floret-like morphology.**
3. These nanoflorets can **absorb light at multiple frequencies,** including infrared, visible light, and ultraviolet, making them highly efficient at converting sunlight into thermal energy.
4. It can provide **ecologically sustainable heating** and has potential uses in various sectors, including construction and healthcare.

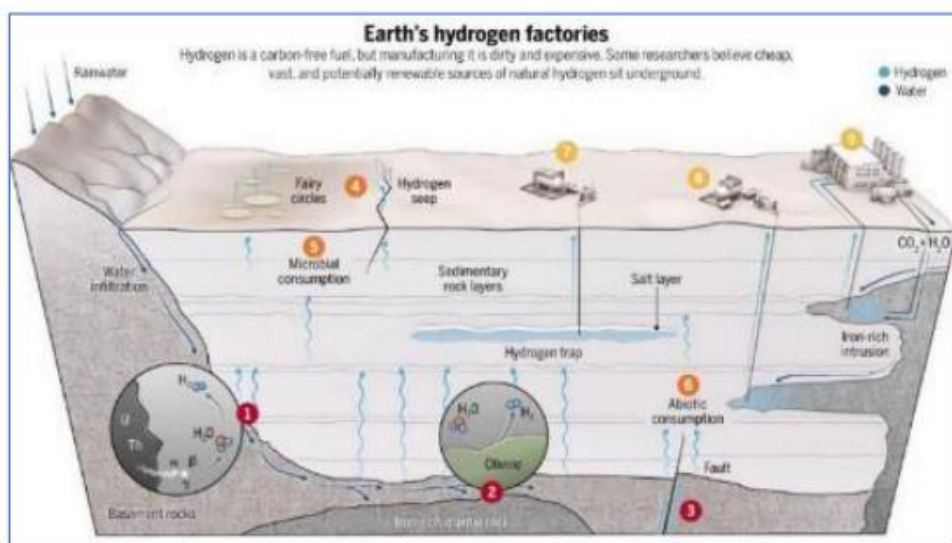


White Hydrogen

1. White hydrogen, also known as "**natural,**" "**gold,**" or "**geologic**" hydrogen, is a naturally occurring form of hydrogen **found in the Earth's crust.**

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. Until recently, significant quantities of hydrogen gas in its **pure form** were **not thought** to be **present within the earth**.
3. But the recent findings indicated a **vast reservoir of hydrogen**, potentially one of the **largest deposits of white hydrogen** ever discovered.
4. White hydrogen **Causes no CO₂ emissions** when **used as a fuel**.



Project Kusha



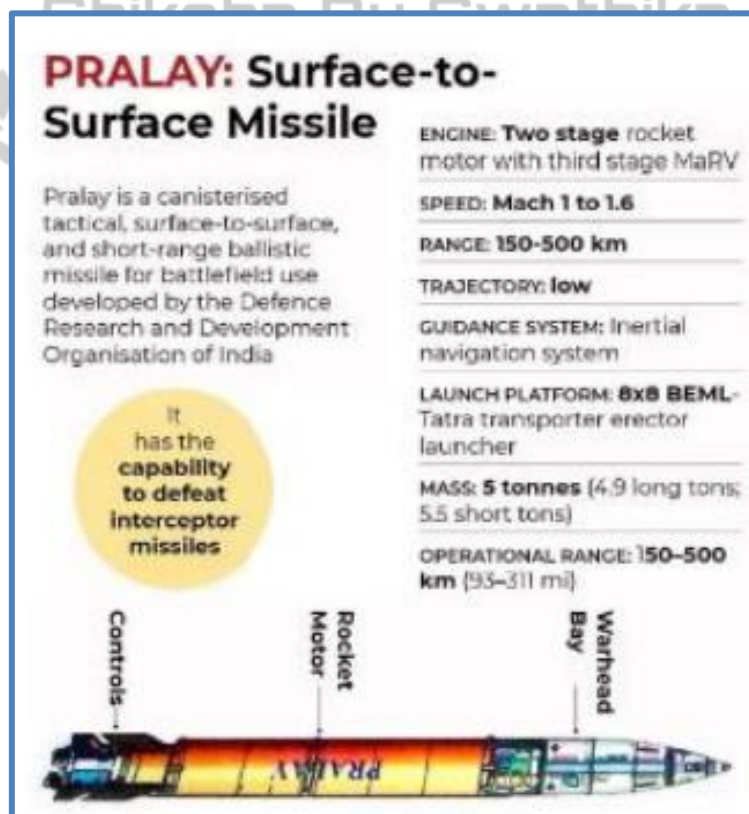
1. India's own **long-range air defence system**, titled 'Project Kusha', is being developed by the **Defence Research and Development Organisation (DRDO)**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. It will be capable of **detecting and destroying enemy projectiles** and armour, including cruise missiles, stealth fighter jets, and drones at long range.
3. These missiles can **detect and strike hostile targets** at the **ranges of 150 km, 200 km, and 350 km.**

Pralay Tactical Ballistic Missile

1. India successfully test fired '**Pralay**', **short-range tactical ballistic missile (TBM)**.
2. The missile was developed by the **Defense Research and Development Organisation.**
3. Pralay is a **surface-to-surface TBM** with a range of **350-500 kilometres** and with a **payload capacity of 500 to 1,000 kilograms.**
4. This missile is **specifically designed** for deployment along the **Line of Actual Control opposite China.**



NOVEMBER MONTH CURRENT AFFAIRS - 2023

IISR Chandra

1. The **Indian Institute of Spices Research (IISR), Kozhikode**, has successfully developed a new **high-yielding variety of black pepper**.
2. The variety has named as 'IISR Chandra'.
3. **Two pepper** varieties- **Cholamundi and Thommankodi** - were crossed to **produce a hybrid variety**.



25 years of the International Space Station

1. **November 20** marks the **25th anniversary of the launch** of the International Space Station (ISS).
2. This is the **largest man-made object** in the solar system launch on **November 20, 1998**.



3. **ISS is a joint project** involving space agencies from the **United States (NASA), Russia (Roscosmos), Europe (ESA), Japan (JAXA), and Canada (CSA)**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

4. In **2022, Russia** announced that it will **pull out of ISS after 2024** and focus on building its own orbiting outpost.
5. It travels **at 8 kilometers (5 miles) per second**.

Aditya-L1 Recorded First-Ever Sight Of Solar Flares

1. **ISRO's maiden solar mission**, Aditya L1, has **captured its first** high-energy X-ray glimpse of solar flares.
2. The **High Energy L1 Orbiting X-ray Spectrometer (HELIOS)** on board the **Aditya - L1 spacecraft** recorded the **impulsive phase of solar flares**, as announced by the space agency.
3. A solar flare is a **sudden brightening of the solar atmosphere**, and the recorded **data from Aditya L1 is consistent** with the **X-ray light curves** provided by the **National Oceanic and Atmospheric Administration's (NOAA) Geostationary Operational Environmental Satellites (GOES)**.



Mika' Becomes World's First AI Human-Like Robot CEO



1. **Hanson Robotics and Dictador**, have appointed the **world's first humanoid robot CEO named Mika**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. This innovative project aims to **blend advanced artificial intelligence and machine learning** with the unique values of the company.

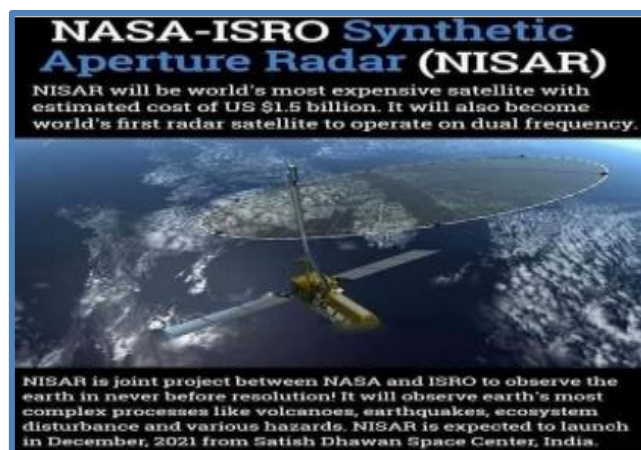
First Chikungunya Vaccine - Ixchiq

1. **Ixchiq, the first chikungunya vaccine**, has been **approved by the US Food and Drug Administration (FDA)** for **individuals 18 years of age and older** who are at increased risk of exposure to **mosquito-borne virus**.



NISAR (NASA-ISRO Synthetic Aperture Radar)

1. **India & US to Launch Joint Microwave Remote Sensing Satellite for Earth Observation.**
2. The satellite will be named **NISAR (NASA-ISRO Synthetic Aperture Radar)**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

3. NISAR is targeted for launch on board India's **Geosynchronous Satellite Launch Vehicle (GSLV)**.
4. NISAR will be highly suitable for **studying the land ecosystems, deformation of solid earth**, mountain and polar cryosphere, sea ice and coastal oceans on a regional to global scale.

ENVIRONMENT

Artificial Rains to Tackle Air Pollution

1. The government of National Capital Territory of Delhi announced its plans for **artificial rain in the city to tackle the air pollution crisis**.
2. It aims to **enhance rainfall** and subsequently **clear the air of pollutants**, thereby reducing pollution levels in a particular area.
3. This innovative approach, supported by a comprehensive plan submitted by **Indian Institute of Technology-Kanpur**.
4. Previously, **China fired chemical rods** into the sky to bring more rainfall to its dried-up parts.



IQAir's AQI Data 2023

1. This ranking was released by **Swiss air purifier company, IQAir**.
2. **Delhi** was the most polluted city in the world with an **air quality index (AQI) of 287**.
3. It is followed by **Lahore, Pakistan, at 195**.

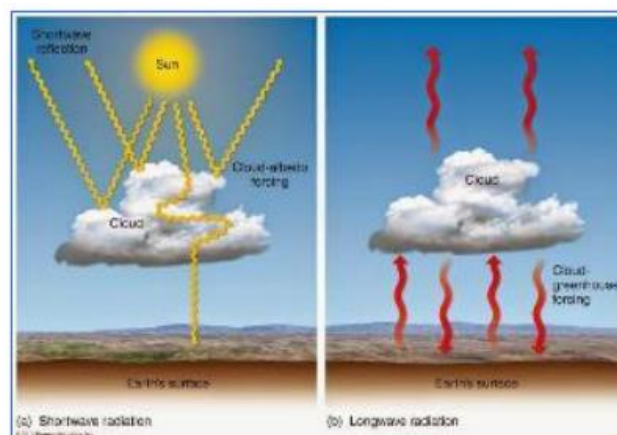
NOVEMBER MONTH CURRENT AFFAIRS - 2023

4. **Mumbai**, at 153, and **Kolkata**, 166, were also present among the **top 10 of the most polluted cities**.
5. **Air pollution in parts of Delhi** was **30 times** the safe limits prescribed by the World Health Organisation (WHO).

US AQI Level	PM2.5 (µg/m ³)	Health Recommendation (for 24 hour exposure)
Good 0-50	0-12.0	Air quality is satisfactory and poses little or no risk.
Moderate 51-100	12.1-35.4	Sensitive individuals should avoid outdoor activity as they may experience respiratory symptoms.
Unhealthy for Sensitive Groups 101-150	35.5-55.4	General public and sensitive individuals in particular are at risk to experience irritation and respiratory problems.
Unhealthy 151-200	55.5-150.4	Increased likelihood of adverse effects and aggravation to the heart and lungs among general public.
Very Unhealthy 201-300	150.5-250.4	General public will be noticeably affected. Sensitive groups should restrict outdoor activities.
Hazardous 301+	250.5+	General public at high risk of experiencing strong irritation and adverse health effects. Should avoid outdoor activities.

Marine cloud brightening

1. The "marine cloud brightening" is being seriously considered as a way **to shield parts of the ocean** from extreme heat.
2. **Water cannons** are used to spray seawater into the sky.
3. This causes **brighter, whiter clouds to form**.
4. These **low marine clouds** reflect sunlight away from the ocean's surface, **protecting the marine life** below from the worst of climate change.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

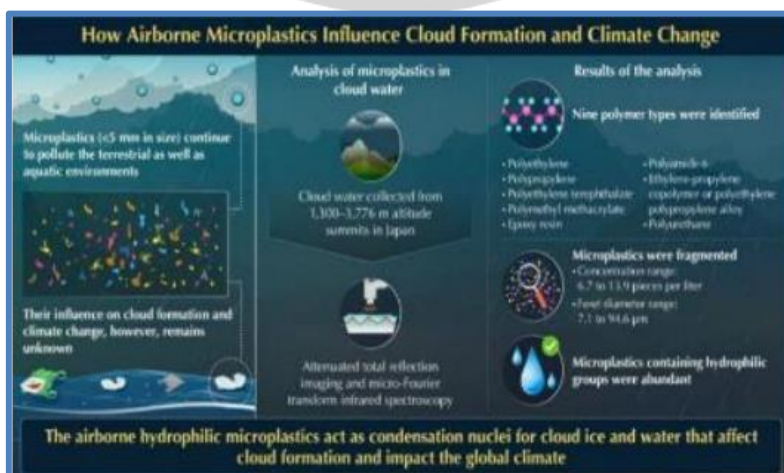
World's first sperm whale reserve

1. The **Caribbean Island of Dominica** is creating the world's first marine protected area for **one of Earth's largest animals**: the endangered sperm whale.
2. Nearly **300 sq miles (800 sq km) of royal blue waters** on the western side of the island nation will be designated as a reserve .
3. Sperm whales can produce a **single calf every five to seven years**.



Microplastics in Clouds

1. Recent studies have shown not only Microplastics are in oceans but also the **rain, snow, and even clouds**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. The **low-altitude and denser clouds** had more **amount of microplastics**.
3. They include **polyethylene terephthalate** (otherwise known as PET), **polypropylene, polyethylene and polystyrene**.
4. All these particles commonly **found in synthetic fibres**, clothing and textiles, as well as packaging and face masks.
5. Microplastics in clouds may **affect the weather and climates** of the region.

Mont Blanc

1. Mont Blanc, the **tallest mountain in France**, has **shrunk in the last two years** .
2. The mountain's peak has been measured at **4,805.59 metres**, which is **2.22 metres** shorter than in 2021.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

SPORTS

Angelo Mathews - ‘Timed out’

1. **Sri Lankan all-rounder Angelo Mathews** became the **first cricketer** to be dismissed timed out in ODI cricket.
2. After a wicket falls, a new batter gets **120 seconds (2 minutes)** to take guard for the next ball.

World Cup 2023

1. **Australia defeated India** by six wickets to win their **sixth One Day International World Cup** in **Ahmedabad, Gujarat**.
2. Australia had won **their first World Cup in 1987** and then followed it up with successive titles in **1999, 2003, 2007 and 2015**.
3. **India** has won this in **1983 and 2011**.
4. **Travis Head of Australia** was **man of the match in Final** while **Virat Kohli of India** was the **player of the series**.

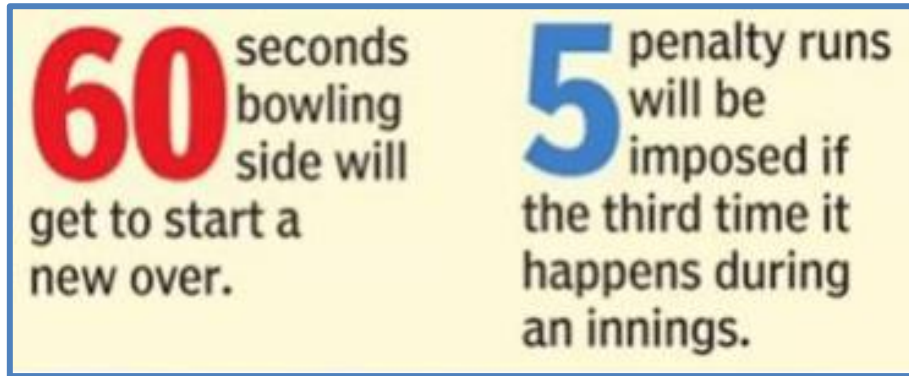


Stop Clock to Regulate Pace of Play

1. The ICC board has introduced a **stop-clock system to prevent teams from wasting time**.
2. Once an over is finished, the **fielding team** will have to be **ready within 60 seconds to bowl the next over**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

3. A **five-run penalty** will be **imposed the third time** it failed to do so in an innings.



60 seconds bowling side will get to start a new over.

5 penalty runs will be imposed if the third time it happens during an innings.

World Billiards Championship

1. Indian cueist **Pankaj Advani** rallied to win the IBSF World Billiards Championship title for a staggering 26th time.



Davis Cup - Tennis

1. Italy beat Australia, reclaims Davis Cup title after 47 years.





NOVEMBER MONTH CURRENT AFFAIRS - 2023

AWARDS AND EVENTS

2023 Mahatma Awards

1. **Digital transformation solutions company** UST has won the 2023 Mahatma Awards.
2. They are awarded for their **sustainable and impactful contributions to corporate social responsibility** (CSR) in areas such as education, health, livelihood, environment, and disaster relief.

Rohini Nayyar Prize

1. **Social worker Deenanath Rajput** was awarded the Rohini Nayyar Prize for **Outstanding Contribution to Rural Development**.
2. It is recognising his efforts in **changing the lives of over 6,000 tribal women** in **Chhattisgarh** by establishing a farmers producers organisation (FPO).

Earthshot prize 2023

1. This is also called as the "**Eco Oscars**".
2. The competition is based around **five "Earth shots," or environmental goals**.
3. **S4S Technologies**, an **Indian full-stack food-processing**, solar-tech platform, is among the five winners.

19th Asian Power awards 2023

1. It is dubbed as the "**Oscars of the power** industry.
2. **GAIL India Limited** won the '**Innovation Award – India**' and '**Midstream Project of the Year – India**' award.

51st International Emmy award

1. **India's comedian Vir Das** won the International Emmy for Comedy.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. He became the **first comedian from the country** to win the International Emmy Awards for **his Netflix stand-up show**.

British Academy Book Prize

1. The British Academy Book Prize for **Global Cultural Understanding**, a prestigious international non-fiction award has been claimed by **India-born author Nandini Das** for her debut book, **‘Courting India: England, Mughal India, and the Origins of Empire.’**



Wildlife Photographer of the Year



1. A **10- year-old-Bangalore kid, Vihaan Talya Vikas**, won the Wildlife Photographer of the Year (WPY) competition in the **under-10 category**.
2. Vihaan's photograph **captured a spider in an intriguing position** with a sculpture of Lord Krishna.

Global Responsible Tourism Award 2023

1. Kerala received the award in the **'Best for Local Sourcing - Craft and Food' category**.



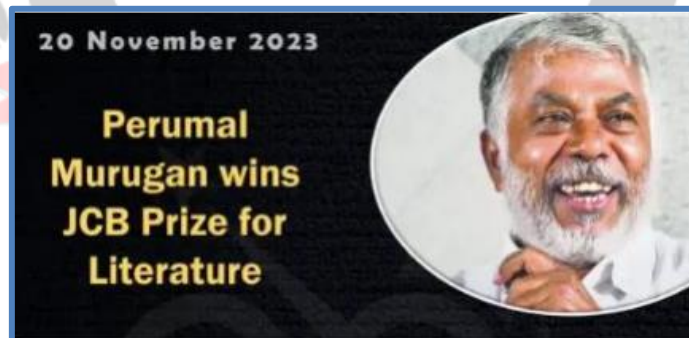
NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. The **Kerala Responsible Tourism Mission** is implementing **women-friendly tourism projects** with the **help of the UN**.



JCB Prize for Literature

1. **Tamil writer Perumal Murugan** won the coveted JCB Prize for Literature for his novel, **Fire Bird, an English translation of his Tamil novel Aalanda Patchi**.
2. The prize **aims to celebrate Indian writing** and to help readers across the world discover the very best of contemporary Indian literature.



BBC 100 Women 2023 List

1. BBC's 100 Women 2023 list highlights the **women's rights and diverse life experiences of inspiring women** globally.
2. It includes **three Indian women** viz. **Actress Dia Mirza**, Cricketer **Harmanpreet Kaur**, Photographer **Arati Kumar- Rao**, and Tibetan Buddhist nun Jetsunma Tenzin Palmo.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

2. An emotionally charged narrative set against the **backdrop of an Iranian teacher's odyssey amidst the turmoil ignited by the rise of the Taliban in Afghanistan.**

Nansen Award

1. **Abdullahi Mire** has been named the **winner of the UNHRC's prestigious** Nansen Award.
2. Abdullahi Mire has received the **award for giving 1,00,000 books to the hands of children** in Kenya's crowded **Dadaab refugee camps.**



PERSONALITIES

NASA astronaut Thomas Kenneth Mattingly

1. **Ken Mattingly**, an astronaut, passed away recently.
2. He is remembered for his efforts on the ground that helped bring the damaged **Apollo 13 spacecraft** safely back to Earth.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

Shital Mahajan

1. **Indian skydiver Shital Mahajan** jumped off a helicopter from the **height of 21,500ft** in front of the **world's highest peak, Mt Everest**.
2. She became **the first woman** to do so.
3. Mahajan **landed at Kalapatthar peak** at an **altitude 17,444ft**.



Miss Universe 2023

1. **Sheynnis Palacios from Nicaragua** crowned Miss Universe 2023.
2. **R'Bonney Gabriel of the United States of America**, who held the title of **Miss Universe for 2022**, was the one to bestow the crown upon Palacios.


Justice Fathima Beevi

1. Justice M. Fathima Beevi, the **first woman judges** to be **appointed to the Supreme Court of India**, passed away recently.
2. She was also the **first Muslim woman judge** to be appointed to any higher judiciary.
3. Upon her retirement, she first served as a **member of the National Human Rights Commission**.
4. Later in **1997**, she was appointed as the **Governor of Tamil Nadu**.
5. She became the **first Muslim woman** to hold the **governor's office** and **Tamil Nadu's first and only female governor**.

NOVEMBER MONTH CURRENT AFFAIRS - 2023

6. She **resigned from the post of Governor of Tamil Nadu after rejecting the mercy petitions filed by four condemned prisoners in the Rajiv Gandhi assassination case.**

LIFE THROUGH THE YEARS

<ul style="list-style-type: none"> ● April 30, 1927: Born in P'Thitta to Annaveetil Meera Sahib and Khadeeja Beevi ● 1950: Graduated from Government Law College, Thiruvananthapuram, becoming the first woman in the state to secure a law degree ● Topped Bar Council exam ● Enrolled in Bar Council ● 1958: Served as Munsiff in the Kerala Subordinate Judicial Services ● 1968: Appointed subordinate judge in Kerala ● 1972: Appointed chief judicial magistrate ● 1974: Appointed district & sessions judge ● 1980: Served as judicial member of the Income Tax Appellate Tribunal 	<ul style="list-style-type: none"> ● 1983: Elevated to the High Court as a judge ● 1984: Becomes a permanent judge at the High Court  <ul style="list-style-type: none"> ● 1989: Retires from High Court ● 1989: Appointed judge in the Supreme Court, becoming the first Muslim woman judge in 	<ul style="list-style-type: none"> any higher judiciary ● 1992: Retires from top court ● 1993-1997: Serves as a member of the National Human Rights Commission ● 1997: Assumes role of Tamil Nadu governor <p>Rejects mercy petitions of four accused in the Rajiv Gandhi assassination case</p> <p>Administered oath of office and secrecy to former TN CM J Jayalalitha swiftly after the AIADMK secured a majority in the Assembly elections in May 2001, a move that stirred controversy</p> <ul style="list-style-type: none"> ● 2001: Resigns from governor's post ● November 23, 2023: Breathes her last at Travancore Medicity Hospital, Kollam
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Shiksha By Swathika

APPOINTMENTS

Heeralal Samariya

1. **Information Commissioner Heeralal Samariya** was sworn in as the **Chief Information Commissioner (CIC)** by President.
2. He is the **first person from the Dalit community** to hold the post.
3. He was sworn in as an **Information Commissioner** in the Central Information Commission on November 7, **2020**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

REPORTS AND INDICES

Inclusiveness Index 2023

1. India is **ranked 117th** in the list of **129 countries** in the world in the inclusiveness index.
2. It is **published by the Othering and Belonging Institute (OBI)** at California University, United States.
3. The index examines inclusivity in **terms of race, religion, gender, sexual orientation, disability,** and the general population using several measures.



4. India was ranked
 - **last (129)** in religion inclusiveness
 - **21st** in gender
 - **108th** in disability,
 - **87th** in race,
 - **40th** in the general population, and
 - **39th** in LGBTQ.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

5. **New Zealand** finished **first in the index** for the second consecutive year.
6. **Portugal** recorded its best showing by securing **second place** (up from 5th place in 2022) followed by the **Netherlands in the third place**.
7. **Iran** was placed at the **bottom of the global list**.

WHO Global TB Report

1. Number of people newly diagnosed with TB was **7.5 million in 2022:WHO Global TB Report**.
2. According to the report, India recorded **2.8 million (28.2 lakh)** TB cases in 2022, with a case **fatality ratio of 12%**.
3. Officials stated that "The best estimate of the number of deaths in India from TB was **3,42,000** (3,31,000 among HIV- negative people and 11,000 among those with HIV)."



India ranks 2nd in employee well-being



1. A recent global survey has ranked **Turkey at the top** and **India at second spot** while keeping **Japan at lowest for employees**.



NOVEMBER MONTH CURRENT AFFAIRS - 2023

- The survey was **conducted by McKinsey Health Institute**, and it assessed **employees' physical, mental, social and spiritual health** before arriving at the conclusions.
- Turkey scored highest at **78%**, followed by India at **76%** and China at **75%**, way higher than the **global average of 57%**.
- Japan scored a mere 25%** in the poll.

IMPORTANT DAYS

Date	Day	Theme
30th October to 5th November	Vigilance Awareness Week	"Say no to corruption; commit to the Nation."
November 15-21	National Newborn Week	Aims to raise awareness about the importance of newborn care for child survival and development.
November 18-24	World Anti Microbial Resistance Awareness Week	"Preventing antimicrobial resistance together"
November 19-25	World Heritage week 2023	Celebrates the heritage sites recognised by the United Nations Educational, Scientific and Cultural Organization (UNESCO).
November 01	World Vegan Day	'Celebrating for a Good Cause'.
November 01	State Formation Day	Eight Indian states - Andhra Pradesh, Chhattisgarh, Haryana, Karnataka, Kerala, Madhya Pradesh, Punjab and Tamil Nadu. Tamil Nadu renamed later to Tamil Nadu in July (18) 1967.



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November 02	International Day to End Impunity for Crimes against Journalists	"Violence against journalists, the integrity of elections, and the role of public leadership"
November 02	International day against violence and bullying at school including cyberbullying	"No place for fear: Ending school violence for better mental health and learning."
November 03	International Day for Biosphere Reserves	#ItsAboutLife.
November 05	World Tsunami Awareness Day	"Fighting Inequality for a Resilient Future."
November 06	International Day for Preventing the Exploitation of the Environment in War and Armed Conflict	"Together for a more sustainable and peaceful future".
November 07	National Cancer Awareness Day	Close the care gap
November 07	Infant Protection Day	Ensuring Every Child's Right to Thrive
November 08	World Radiography Day	Celebrating Patient Safety
November 09	National Legal Services Day	Access to Justice for All: Empowering the Marginalised through Legal Awareness
November 09	World Usability Day	Collaboration and Cooperation
November 10	World Science Day	Building Trust in Science
November 10	National Ayurveda Day	'Ayurveda for everyone every day'
November 11	National Education Day	"Embracing Innovation"



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November 12	World Pneumonia Day	"Every Breath Counts: Stop Pneumonia in Its Track".
November 13	World Kindness Day	"Be Kind Wherever Possible."
November 14	World Diabetes Day	"Access to Diabetes Care."
November 14	Children's Day	'For every child, every right',
November 16	National Press Day	"Media in the Era of Artificial Intelligence."
November 16	International Day For Tolerance	"Tolerance: A Path to Peace and Reconciliation"
November 16	World Philosophy Day	"Philosophical Reflection in a Multicultural World".
November 17	World Prematurity Day	"Small actions, big impact: Immediate skin-to-skin care for every baby everywhere."
November 18	World Day For The Prevention Of And Healing From Child Sexual Exploitation, Abuse And Violence	"Strengthening Prevention: A Collective Responsibility."
November 18	National Naturopathy Day	"Naturopathy for Holistic Health".
November 19	Women's Entrepreneurship Day	"Let's make a better future"
November 19	National Integration Day	Marks the birth anniversary of the first woman Prime Minister of India, Indira Gandhi.
November 20	World Children's Day	'For every child, every right',



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November 21	World Television Day	'Accessibility'.
November 21	World Fisheries Day	"Build enabling policy environments for small- scale artisanal fisheries."
November 25	International Day For The Elimination Of Violence Against Women	"UNITE! Invest to prevent violence against women and girls."
November 26	Constitution Day	"Freedom of mind is the real freedom."
November 26	National Milk Day	"Flexible and is a part of the broader concept of stressing the general importance of consuming milk"
November 26	World Sustainable Transport Day	"Sustainable transport, sustainable development".
November 27	World Tourism Day	"Tourism and Green Investments."
November 28	Red Planet Day	Red Planet Day is celebrated on November 28 as it commemorates the launch of the Spacecraft Mariner 4 by NASA in 1964 , which was the first craft to ever reach Mars.
November 29	International Day Of Solidarity With The Palestinian People	Originating from a call by the United Nations General Assembly, this day symbolizes a collective commitment to champion the rights and aspirations of the Palestinian people.



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NOVEMBER MONTH CURRENT AFFAIRS - 2023

November 29	International Jaguar Day	International Jaguar Day celebrates the largest wild cat as an umbrella species for biodiversity conservation and an icon for sustainable development and centuries-old cultural heritage.
November 30	Day Of Remembrance For All Victims Of Chemical Warfare	The primary objective of this day is to honour and mourn the lives lost due to chemical warfare, whether military or civilian.

