

November - 29

TNPSC BITS

- ❖ IIT Madras Pravartak Technologies Foundation has launched a centre for human centric artificial intelligence (CHAI) recently.
- ❖ The Indian Institute of Science researchers have devised a new language named STRONG that encodes the shape and structure of nanopores in the form of a sequence of characters.
- ❖ Sony Pictures Networks India secures exclusive Media Rights for all Asian Cricket Council tournaments from 2024 to 2031.
- ❖ After a Jharkhand Mukti Morcha (JMM)-led alliance victory in the Jharkhand Assembly elections, Hemant Soren has taken oath as Chief Minister.
- ❖ Punjab National Bank (PNB) has become a signatory to the globally recognised Partnership for Carbon Accounting Financials (PCAF) to enhance GHG emissions accounting practices.
- ❖ Thirteen-year-old Vaibhav Suryavanshi from Bihar created history by becoming the youngest player ever sold in the IPL auction.
 - Rajasthan Royals secured him for INR 1.10 crore.
- ❖ National Cashew Day is observed on November 23 annually.
- ❖ Lachit Diwas is celebrated on November 24, 2024, as the birth anniversary of Lachit Borphukan who supported Assam against the Mughal Empire.

TAMIL NADU

Vizhuthugal – One Stop Centre



- ❖ Tamil Nadu Chief Minister inaugurated 'Vizhuthugal – One Stop Centre', set up at Kannagi Nagar in Sholinganallur, Chennai.

- ❖ It provides health-related rehabilitation services for persons with disabilities.
- ❖ This is established by the Department for the Welfare of Differently Abled Persons and is part of a World Bank-assisted T.N. Rights Project.
- ❖ A total of 273 such centres are to be established under the project.
- ❖ This is the first time in India that rehabilitation professionals of special education, optometry, audiology and speech therapy, physiotherapy, occupational therapy and psychological counselling are coming under one single roof.

Sadhaya vizha 2024

- ❖ The birth anniversary of the Chola emperor Raja Raja Chola I is celebrated every year during the Sadhaya Vizha in Thanjavur.
- ❖ The Sadhaya Vizha takes place in the Tamil month of Aippasi (mid-October to mid-November).
- ❖ He was born as Arulmozhi Varman in 947 CE and rose to become one of history's most illustrious and visionary rulers.
- ❖ Raja Raja's reign, from 985 to 1014 CE, was marked by the military prowess and profound administrative vision.
- ❖ Sri Brahadeeswarar Temple (Big Temple) called Rajarajesvaram built by emperor Raja Raja Cholan between 1003 and 1010 CE.



INTERNATIONAL

Global matchmaking platform

- ❖ On the Energy Day at COP29, UN Industrial Development Organization (UNIDO) and the Climate Club launched the Global Matchmaking Platform (GMP).

- ❖ The initiative had focused on accelerating the decarbonisation in heavy-emitting industries.
- ❖ The launch event highlights the annual funding gap of US\$125 billion to reach the goal of net zero emissions.
- ❖ The GMP for industry decarbonisation is being built as a support mechanism of the Climate Club, with the secretariat hosted by the UNIDO.
- ❖ The matchmaking process aims to address the unique needs of different countries and providing the right support.



ECONOMY

MSME's Jobs creation 2024

Type of Enterprise (Manufacturing + Service)	Investment (Rs.)	Turnover
Micro	1 crore	5 crores
Small	10 crores	50 crores
Medium	50 crores	250 crores

- ❖ India's micro, small, and medium enterprises (MSMEs) have added nearly 10 crore new positions over the past 15 months.
- ❖ The number of registered MSMEs has gone up to 5.49 crore from 2.33 crore in August last year.



- ❖ The number of jobs reported by these enterprises has shot up to 23.14 crore from 13.15 crore during this period.
- ❖ The total employment also included 2.84 crore jobs by 2.38 crore informal micro units and 5.23 crore women employment.

SCIENCE AND TECHNOLOGY

WOH G64 star

- ❖ Astronomers have obtained the first detailed image of a star outside our galaxy, capturing a pivotal moment in its life cycle.
- ❖ The star, known as WOH G64, is located an astonishing 1,60,000 light-years away in the Large Magellanic Cloud.
- ❖ WOH G64 is nicknamed the "behemoth star".
- ❖ WOH G64 is classified as a red supergiant, with a size approximately 2,000 times that of our Sun.

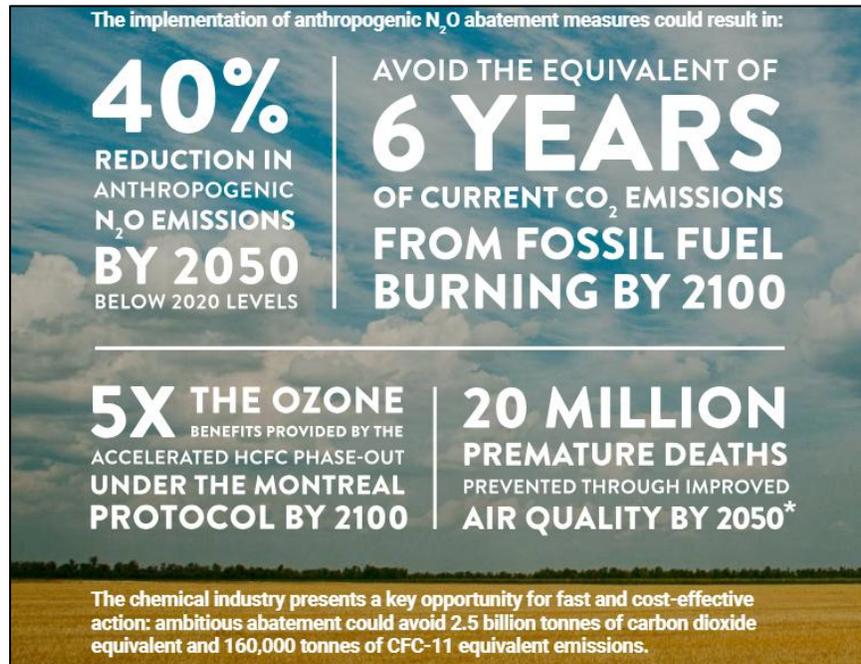


ENVIRONMENT

Global Nitrous Oxide Assessment Report

- ❖ Nitrous oxide has a lifetime of 120 years and is approximately 270 times more powerful than carbon dioxide per tonne of emission at warming the Earth.
- ❖ Its anthropogenic emissions are responsible for approximately 10% (around 0.1°C) of net global warming to date.
- ❖ The atmospheric abundance of the gas has risen by over 20% since pre-industrial era.

- ❖ The annual growth rate over the past five years (2017–2021) was 1.2 parts per billion a year and was nearly twice that of the early 2000s (2000–2004).
- ❖ Between 1980 and 2022, atmospheric concentrations increased from 301 to 336 parts per billion.
- ❖ Agriculture is currently the source of 75% of those emissions.
- ❖ Of which approximately 90% comes from the use of synthetic fertilisers and manure on agricultural soils and 10% from manure management.
- ❖ Nitrous oxide is currently the most significant ozone-layer depleting substance being emitted to the atmosphere.



Raorchestes asakgrensis



- ❖ The scientists have discovered a new frog species in Meghalaya.

- ❖ They have named the species as 'Raorchestes asakgrensis'.
- ❖ This is named after the Eman Asakgre Community Reserve in the Garo Hills of Meghalaya.
- ❖ The team also rediscovered two more species – Ixalus garo and Ixalus kempiae – in Garo hills.

PERSONALITIES, AWARDS, AND EVENTS

National Gopal Ratna Awards, 2024



- ❖ The Department of Animal Husbandry and Dairying (DAHD) declared the winners of the National Gopal Ratna Awards (NGRA).
- ❖ It is one of the highest National Awards in the field of livestock and dairy sector for the year 2024.
- ❖ The Award is conferred in three categories, namely,
 - Best Dairy Farmer Rearing Indigenous Cattle/buffalo Breeds,
 - Best Artificial Insemination Technician (AIT) and
 - Best Dairy Cooperative/ Milk Producer Company/ Dairy Farmer Producer Organization.
- ❖ In the 3rd category, Cuddalore's TND 208 Vadapathy MPCs Ltd won third prize.

IMPORTANT DAYS

National Newborn week 2024 - November 15/21

- ❖ It aims to raise awareness about the importance of newborn care for child survival and development.

- ❖ The neonatal phase (the first 28 days of life) is critical for infant survival, since it has the highest risk of death per day during infancy.
- ❖ The Neonatal Mortality Rate (NMR) has decreased from 44 per 1000 live births in 2000 to 18 per 1000 in 2024 and target of 14 per 1000 by 2025.
- ❖ The aim is reducing mortality among children under five to ≤ 20 per 1000 live births by 2035.
- ❖ This year theme is "Safety, Quality and Nurturing care – Birth Right of Every Newborn".

National Newborn Care Week

15 - 21 November

National Newborn Care Week is celebrated from **15 to 21 November** every year in India to raise awareness about the newborn care importance for child survival and development.

The neonatal period, the first 28 days of life, is the most critical period for child survival, as it carries the highest risk of deaths per day than any other period during childhood.



World chronic pulmonary disease day 2024 – November 20

World COPD Day



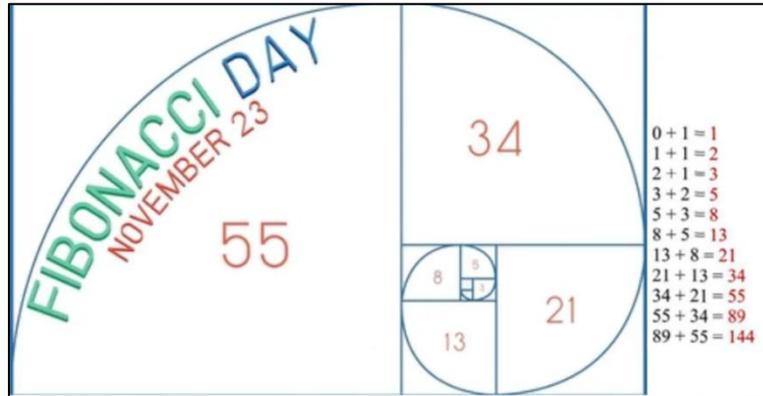
World COPD Day is a global healthcare event to raise awareness of Chronic Obstructive Pulmonary Disease (COPD), amongst the general public around the world. It had been observed every year on the **3rd Wednesday of November** for the past 20 years (since 2002).

- ❖ It is observed every year on the third Wednesday of November since 2002.
- ❖ It aims to raise awareness of Chronic Obstructive Pulmonary Disease (COPD).

- ❖ COPD is the world's 3rd leading cause of death.
- ❖ As per year 2019, it was accounting for 32.3 lakh deaths.
- ❖ Smoking tobacco is one of the main causes of COPD.
- ❖ This year's theme is "Know Your Lung Function".

Fibonacci Day 2024 - November 23

- ❖ The sequence is named after Leonardo of Pisa aka Fibonacci.
- ❖ 11/23 neatly matches the first four numbers of the famous Fibonacci sequence: 1, 1, 2, 3.
- ❖ In his book Liber Abaci, he introduced the sequence to the Western world.
- ❖ His sequence (each number the sum of the two preceding it) became the secret sauce of nature, art and design.



National Milk Day 2024 - November 26

- ❖ It honours the birth of Dr Verghese Kurien, the visionary behind India's White Revolution.
- ❖ The day highlights the crucial role of milk in human nutrition and raises the awareness about its health benefits.
- ❖ Dr Kurien is known as the 'Father of White Revolution in India'.
- ❖ He is famous for his 'Operation Flood' (1970), which is known as the world's largest agricultural program.
- ❖ Due to his efforts, India became the largest producer of milk in 1998, surpassing the U.S.
- ❖ He is Founder Chairman of the National Dairy Development Board (NDDB).
- ❖ He also played a key role in the establishment and success of Amul Brand.

- ❖ He was honoured with awards- Padma Shri (1965), Padma Bhushan (1966), Padma Vibhushan (1999) and World Food Prize (1989).
- ❖ Every year, the first day of June is observed as World Milk Day.

INDIA'S MILKMAN

Vergheese Kurien, Father of the White Revolution and Operation Flood, was born on Nov 26, 1921

Operation Flood took India from being a milk-deficient nation to the world's largest milk producer

Was responsible for the creation and success of the **Amul** brand

At Anand, lived initially out of an old garage, since no one wanted a beef-eating bachelor as a paying guest

A proponent of the *co-operative movement*, his work has helped alleviate millions of people out of poverty in India and abroad

Interestingly, as the man who revolutionised milk production in India, he did not drink milk himself



Constitution Day of India 2024 - November 26

On Nov 26, 1949, the Constituent Assembly adopted the Constitution of India

THE MAKING OF A NATION

Constituent Assembly took 2 years, 11 months and 17 days **to pass it**

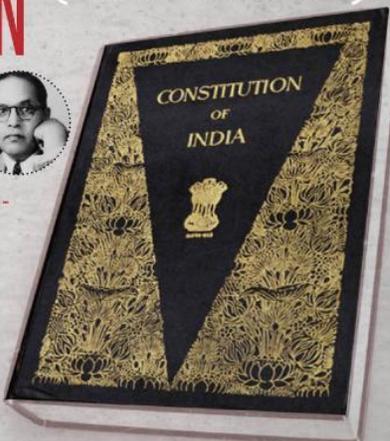
BR Ambedkar is considered its **chief architect**

The assembly had **389 members**

- 292 representatives of states
- 93 from princely states
- 4 from the provinces of Delhi, Ajmer-Mewar, Coorg & British Baluchistan

The original copy was **handwritten** and is safely kept in the Parliament's library

Longest constitution in the world with 448 articles, 12 schedules, 5 appendices and 100 amendments



- ❖ It is also known as Samvidhan Divas.
- ❖ This day marks the adoption of the Indian Constitution in 1949, which came into effect on January 26, 1950.



- ❖ The provisions relating to citizenship, elections, provisional parliament, temporary and transitional provisions were also got immediate effect from November 26, 1949.
- ❖ The framing of the Constitution took over 2 years, 11 months and 18 days.
- ❖ This day also coincides with birth anniversary of Dr. Ambedkar.

