

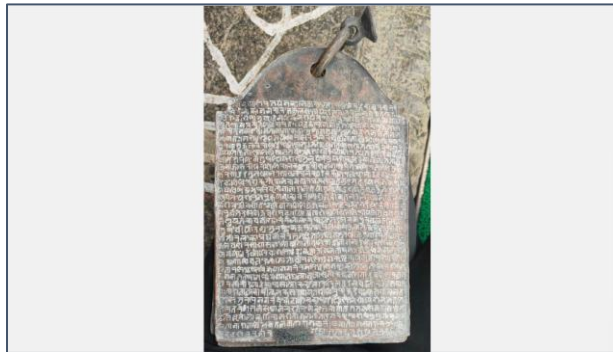
October - 24

TNPSC BITS

- ❖ Odisha will host the 18th Pravasi Bharatiya Divas in Bhubaneswar from 8th to 10th of January next year.
- ❖ Thiruvananthapuram becomes India's first airport to get "world's first self-powered indoor air quality monitor" called Pavana Chitra.
- ❖ Indian Navy and the Royal Navy of Oman recently concluded their bilateral naval exercise, 'Naseem Al Bahr' off the coast of Goa.
- ❖ The Indian Coast Guard successfully conducted the coastal security exercise 'Sagar Kavach' across Gujarat and the Union Territory of Daman & Diu.
- ❖ The New Zealand Women's cricket Team for the first time lifted the ICC T20 World Cup after 23 Years by defeating the South Africa, held at UAE.
- ❖ The Asia-Pacific Ministerial Conference on Disaster Risk Reduction (APMCDRR) 2024 was held in Manila, Philippines.
- ❖ Narayana Murthy, Founder of Infosys, was honoured with the India Lifetime Achievement Award as part of the 2024 Patrick J. McGovern Awards.
- ❖ Mohanji, the renowned humanitarian and spiritual leader, was honoured with Humanitarian Award at 2024 Conscious Companies Awards in Johannesburg, South Africa
- ❖ Popular film Producer Rajkumar Hirani was given the National Kishore Kumar Award in Khandwa, Madhya Pradesh.

TAMIL NADU

Copper plates from Vijayanagara Kingdom



- ❖ A set of copper plate inscriptions with two leaves have been discovered at the Sri Singeeswarar temple at Mappedu village in Tiruvallur district.

- ❖ It is dating back to the 16th Century CE.
- ❖ The inscription was written in Sanskrit and Nandinagari script.
- ❖ It was engraved in 1513 during the reign of King Krishnadevaraya.
- ❖ The plates recorded the gift of a village Vasalabattaka, renamed Krishnarayapura, to several Brahmins by the king.

NATIONAL

8 years of UDAN

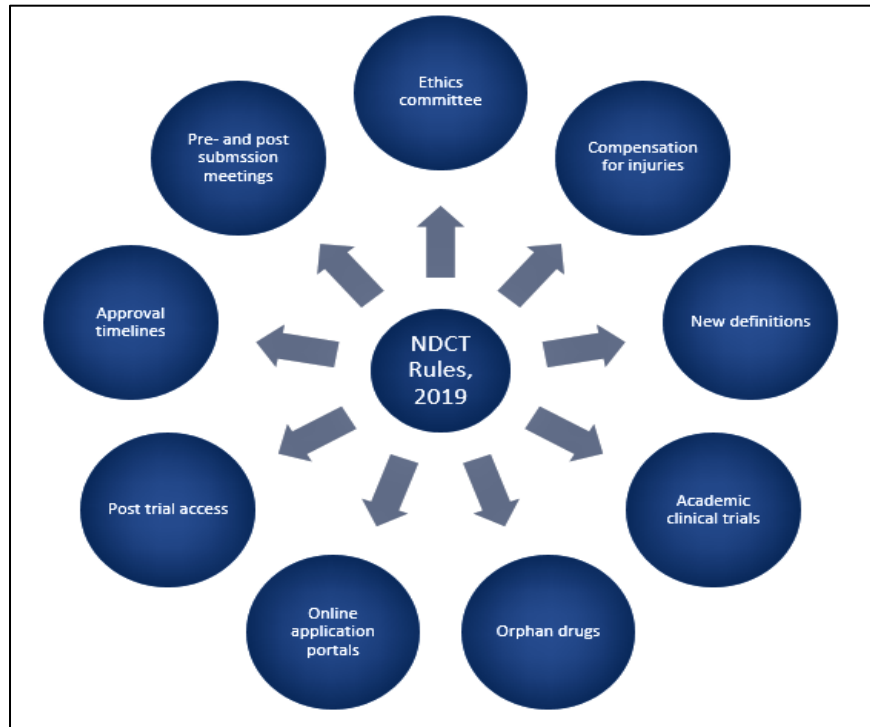


- ❖ The UDAN scheme was introduced on October 21, 2016.
- ❖ UDAN (Ude Desh ka Aam Nagrik) is aimed at enhancing regional air connectivity and making flying more affordable.
- ❖ As many as 601 routes and 71 airports have been operationalised under the UDAN scheme.
- ❖ A total of 86 aerodromes, comprising 71 airports, 13 heliports, and 2 water aerodromes have been operationalised.
- ❖ The number of operational airports in the country has doubled from 74 in 2014 to 157 in 2024

New Drugs and Clinical Trial (NDCT) Rules, 2019

- ❖ The Drugs Technical Advisory Board (DTAB) has recommended the inclusion of all antibiotics in the definition of new drugs in the New Drugs and Clinical Trial (NDCT) Rules, 2019.

- ❖ It aims to curbing the growing anti-microbial resistance which is now recognised as a public health threat globally.
- ❖ The board is also looking at amending the labelling requirements under the Drugs Rules, 1945 and adding a blue strip or box for antimicrobial products.
- ❖ It has recommended that no antimicrobials should be sold by the traders to the non-pharmaceutical industries who do not hold requisite licences.
- ❖ DTAB is the highest statutory decision-making body on technical matters related to drugs in the country.



INTERNATIONAL

FATF Grey List Rules

- ❖ The Financial Action Task Force (FATF) made major changes to the criteria to focus on those nations posing greater risks to the international financial system.
- ❖ The FATF identifies jurisdictions with strategic deficiencies in their system for fighting money laundering, terrorist financing and proliferation financing.
- ❖ Under the revised criteria, jurisdictions will be prioritised for active review if they meet the referral criteria and are:
 - An FATF Member;



- A country on the World Bank High-Income Countries list (excluding those with a financial sector of two or fewer banks); or
 - A country that has financial sector assets above USD 10 billion (measured by broad money)."
- ❖ Around 21 nations are in FATF grey list now.

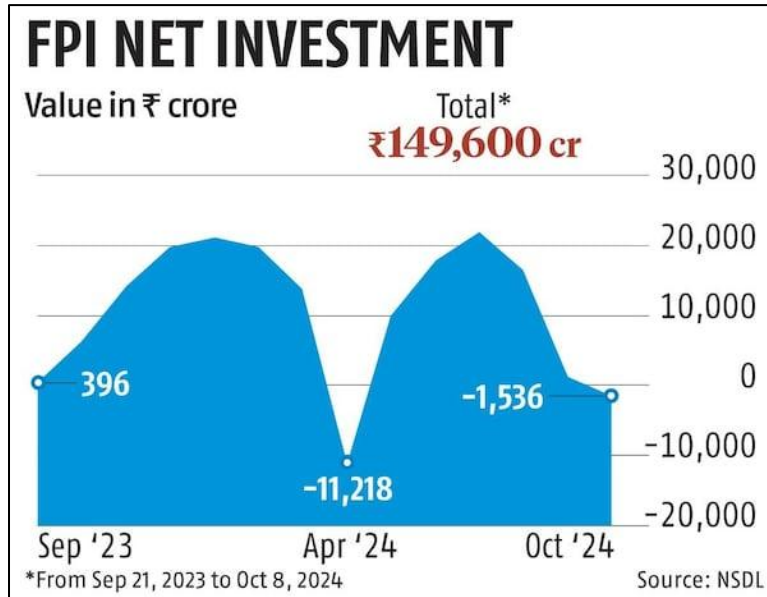
FATF GREY LIST	FATF BLACK LIST
<ul style="list-style-type: none"> - Named as "Jurisdictions Under Increased Monitoring" - Countries having strategic deficiencies in their anti-money laundering (AML) and counter-terrorism financing (CTF) regimes but have committed to addressing these weaknesses - Serves as a signal to the international community that a country is taking steps to improve its AML/CTF efforts but requires enhanced scrutiny and support - Being grey-listed can have significant economic repercussions, including decreased investor confidence, higher transaction costs, and potential difficulties in accessing international financial markets. 	<ul style="list-style-type: none"> - Named as "High-Risk Jurisdictions subject to a Call for Action" - Countries with significant strategic deficiencies in their AML/CTF regimes that have failed to make sufficient progress in addressing these issues - Aims to warn the global financial community about the risks associated with these jurisdictions and to encourage countries to take robust measures against them - Countries on the Black List face severe economic sanctions, loss of international financial credibility, and potential isolation from the global financial system.

ECONOMY

FTSE Russell EMGB index

- ❖ The Fully Accessible Route (FAR) - eligible Indian government bonds will be included in FTSE Emerging Markets Government Bond Index (EMGBI) starting September 2025.
- ❖ Also, the Indian bonds will be included in the regional FTSE Asian Government Bond Index (AGBI) and the FTSE Asian-Pacific Government Bond Index (APGBI).
- ❖ This would be the third global bond index to include Indian bonds after JP Morgan Chase & Co and Bloomberg.
- ❖ All Indian government bonds that are eligible under the FAR programme and meet other index inclusion rules will be added to the index.

- ❖ It is including securities with an original tenor of 14 years and 30-years issued prior to 29 July 2024.



SCIENCE AND TECHNOLOGY

X-band radar on Wayanad



- ❖ The Union Ministry of Earth Sciences approved an X-band radar to be installed in Kerala's Wayanad district.
- ❖ The device uses radio waves to determine the distance, velocity, and physical characteristics of objects around the device.

- ❖ The Doppler radar relies on Rayleigh scattering, when the scatterer is much smaller than the wavelength of the radiation.
- ❖ An X-band radar is radar that emits radiation in the X-band of the electromagnetic spectrum: 8-12 GHz, corresponding to wavelengths of around 2-4 cm.
- ❖ The smaller wavelengths allow the radar to produce images of higher resolution.
- ❖ X-band radars have a relatively shorter range.
- ❖ The new radar is expected to be able to monitor the movements of particles, such as soil, to inform landslide warnings.
- ❖ The first indigenously designed and manufactured X-band storm detection radar was installed in 1970 in New Delhi.

ENVIRONMENT

Fourth global coral bleaching

The Fourth Global Coral Bleaching Event

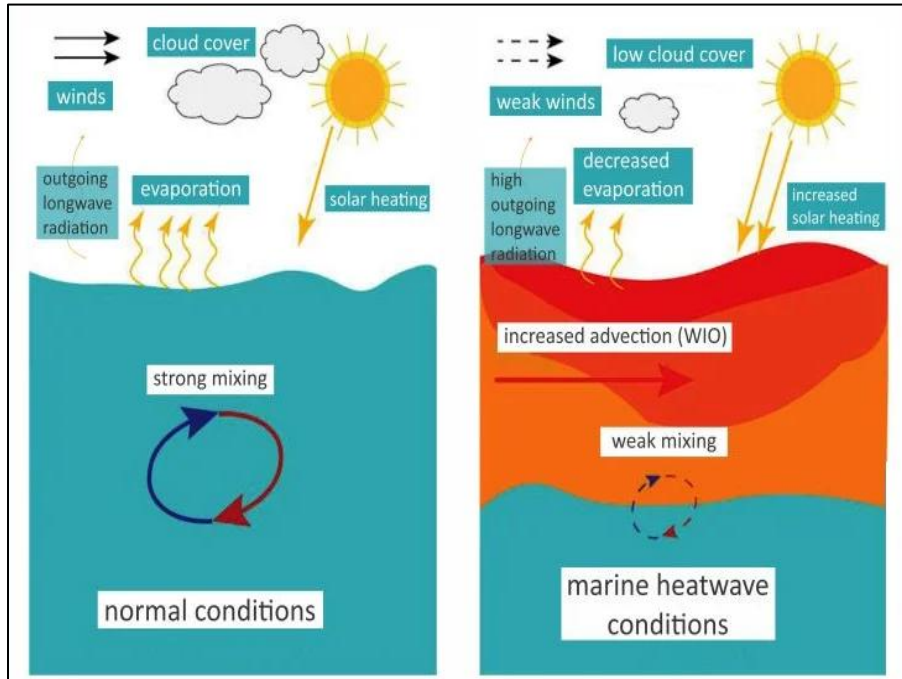


NOAA and ICRI Confirm Fourth Global Coral Bleaching Event

- ❖ The ongoing fourth global coral bleaching (GCBE4) event began in January 2023.
- ❖ It is now the most widespread and surpassed the coral bleaching levels of 2014-2017 by over 11 per cent.
- ❖ This severe and intense global bleaching event has been recorded in almost half the amount of time than the previous event.
- ❖ At least 77 per cent of global reef areas have experienced bleaching level heat stress in almost 20 months as part of GCBE4.

- ❖ Roughly 99.9 per cent of the coral reef areas in the Atlantic Ocean have experienced bleaching-level heat stress during this event.

Marine Heat Waves



- ❖ Marine Heat Waves (MHWs) are defined by the unusual warming of ocean waters.
- ❖ In recent years, global warming has made MHWs more frequent and intense.
- ❖ MHWs have typically been measured by observing temperatures at the ocean surface.
- ❖ The Researchers found that MHWs deep in oceans may be “significantly under-reported”
- ❖ Huge loops of swirling current, sometimes hundreds of kilometres across and reaching down over 1,000 metres.


IMPORTANT DAYS

Mole Day 2024 - October 23

- ❖ The day is commemorated in honor of Avogadro’s number and is marked from 6:02 a.m. to 6:02 p.m.
- ❖ Avogadro number is denoted as 6.02×10^{23} to define the number of particles present in a single mole of any substance.


- ❖ This number - or a mole - is a basic measuring unit for atoms and molecules discovered by Amedeo Avogadro, an 18th-century Italian scientist.
- ❖ The theme for 2024 is EncantMole.

THE MOLE: 6.022×10^{23}




WHAT IS A MOLE?

One mole is the amount of a substance that contains exactly $6.02214076 \times 10^{23}$ atoms, molecules or ions. This number is also known as 'Avogadro's Number' (N_A). It is named after the Italian scientist Amedeo Avogadro (left), which was a suggestion put forward by French scientist Jean Perrin to recognise Avogadro's work.



One mole is essentially _____
602,214,076,000,000,000,000,000
_____ *of something - in chemistry, atoms or molecules*

United Nations Day 2024 - October 24



Prospects for Growth
October 24, 2024

UN DAY 2024

8 DECENT WORK AND ECONOMIC GROWTH | 17 PARTNERSHIPS FOR THE GOALS

REGULATION | CLIMATE JUSTICE | PLANABILITY | GREEN DEAL | POST-GROWTH | (ECO-) SOCIAL JUSTICE | CAPITALISM | CIRCULAR ECONOMY | GROSS NATIONAL PRODUCT | CULTURAL GROWTH | SOCIAL INJUSTICE | HUMANITY | ECOLOGICAL GROWTH

- ❖ This day marks the anniversary of the UN Charter's adoption in 1945.
- ❖ After World War II, 51 nations established the United Nations in 1945 with the goals of preserving world peace and security.
- ❖ The name 'United Nations' was coined by the United States President Franklin D. Roosevelt.
- ❖ It is currently made up of 193 Member States.



- ❖ Each of the 193 Member States of the United Nations is a member of the General Assembly.
- ❖ This day was first celebrated on October 24, 1948.

