

Current affairs summary for prelims

# **25 January 2023**

# India Energy Week

## **❖** Context

In a run-up to India Energy Week 2023 (IEW 2023) to be held in Bengaluru, Union Minister of Petroleum & Natural Gas, ceremonially inaugurated the demo-run of Inland Water Vessel powered by Methanol blended Diesel (MD15).

### Key Highlights:

- The boat ride was done on a 50-seater motor launch marine vessel named **'SB Gangadhar'**.
- The marine vessel is equipped with two Ruston made diesel engines (each engine of 105 hp).
- The boat will be run on MD-15 (15% methanol blended HSD).
- Methanol is a low carbon hydrogen carrier fuel produced from high ash coal, agricultural residue, CO2 from thermal power plants and natural gas.
- It is the best pathway for **meeting India's commitment to COP 21.** 
  - Although slightly lower in energy content than petrol and diesel, methanol can replace both these fuels in:-
    - The transport sector (road, rail and marine).
    - Energy sector comprising DG sets, boilers, Process heating modules, Tractors, and commercial vehicles
    - Retail cooking (replacing LPG [partially], kerosene and wood charcoal)

## About India Energy Week:

- IEW 2023 is the first major event under India's G20 Presidency, which follows the Honourable Prime Minister pledge at COP26 to cut India's emissions to net-zero by 2070.
- Held under the patronage of the Ministry of Petroleum & Natural Gas, Government of India, India Energy Week is the only & all-encompassing international energy event.
- It is officially supported by the Federation of Indian Petroleum Industry (FIPI).

## Methanol Economy Programme:

- NITI Aayog's 'Methanol Economy' programme is aimed at reducing India's oil import bill, greenhouse gas (GHG) emissions, and converting coal reserves and municipal solid waste into methanol.
- Methanol is a **cost-effective alternative marine fuel**. It is less costly than other marine fuel and is economical in terms of developing the shore side storage and bunkering infrastructure.
- The cost to convert vessels to run on methanol is significantly less than other alternative fuel conversions with no need for expensive exhaust gas after treatment and as a liquid fuel.
- Only minor modifications are needed for existing storage & bunkering infrastructure to handle methanol.
- Blending of 15% methanol in gasoline can result in at least 15% reduction in the import of gasoline/crude oil.
- In addition, this would **bring down GHG emissions by 20%** in terms of particulate matter, NOx, and SOx, thereby improving the urban air quality.
- Methanol Economy will also create close to 5 million jobs through methanol production/application and distribution services.
- Additionally, Rs 6000 crore can be saved annually by blending 20% DME (Di-methyl Ether, a derivative of methanol) in LPG.
- This will help the consumer in saving between Rs 50-100 per cylinder.

# Republic Day: Tableaux

### Context

➤ The Minister of Defence recently announced that 17 states and union territories, such as West Bengal, Assam, Arunachal Pradesh, Tripura, and Jammu & Kashmir, will display their tableaux at Kartavya Path for the Republic Day parade.

### **Key Highlights:**

- Six of the ministries and departments will also display their tableaux.
- They will depict the nation's rich cultural heritage, economic progress and strong internal and external security.

### The Process to Decide the Tableaux:

- The Defence Ministry is responsible for the Republic Day parade and the celebrations.
- Every year, around September, the ministry initiates the process to decide the tableaux.
- It asks all the states, the Union Territories, Central Government departments, and a few constitutional authorities to send their tableau proposals.

## **Guidelines on What can be Depicted:**

 The participants have to showcase elements relevant to their state/ UT/ department, within the overarching theme.

- The themes given to participants this year were around 75 years of India's Independence, the International Year of Millets and 'Nari Shakti'.
- The Defence Ministry also shares the basic guidelines about what all the tableaux can or should include.
- The participating entities must engage-
  - Young qualified designers from renowned institutions.
  - Electronic display walls for a bright display of images or content.
  - Moving elements using robotics or mechatronics.
  - o 3D printing could be used for certain elements.
  - Use of augmented or virtual reality.
  - Special effects to improve the optics and visual effects of the tableau.
  - The tableaux of two different states/ UTs must not be similar.
- It cannot have any writing or use of logos, except for the name of the state/ UT/ department.
- The name should be written in Hindi on the front, English on the back, and a regional language on the sides.







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The Defence Ministry also asked the participants to **use eco-friendly material for the tableaux**, and avoid the use of plastic or plastic-based products.

## **Selection of Tableaux:**

- For the selection process, the Defence Ministry constitutes a committee of "distinguished persons" from fields like art, culture, painting, sculpture, music, architecture, choreography, etc.
- It helps in shortlisting the tableaux from the proposals.
- First, the submitted sketches or designs of the proposals are scrutinised by this committee.
- The next stage is for the participants to come up with three-dimensional models for their proposals.
- In making the final selection the committee looks at a combination of factors, looking at the visual appeal, impact on the masses, idea/ theme of the tableaux etc.

### Size of Tableaux:

- The Defence Ministry provides each participant with one tractor and one trailer, and the tableau should fit on that.
- However, the participant can replace their ministryprovided tractor or trailer with other vehicles, but the total number should not be more than two vehicles.

# **Eravikulam National Park (ENP)**

### **❖** Context

Recently, Eravikulam National Park (ENP) witnessed an **early onset of the breeding season with two tahr births**, even as the authorities are preparing to close the park on January 31 2023.

### **Key Highlights:**

- This is the first time in the park's history that a newborn has been reported as early as the second week of December.
- Normally, the park closes for breeding season from January 31 to March 31.
- In the annual census conducted last year, 785 tahrs were sighted inside the park, and 125 new kids were sighted inside ENP.

### Nilgiri Tahr:

#### About

 The Nilgiri tahr is an ungulate that lives high in the mountains of southern India.



- Males are larger than females & of darker color when mature.
- It's endemic to the Nilgiri Hills
   & the southern portion of the
   Western and Eastern Ghats.
- o It is the state animal of Tamil Nadu.
- It is also known as Nilgiri Ibex.

### Habitat

 It inhabits the open montane grassland habitat of the South Western Ghats montane rain forests ecoregion.

### Distribution

o The Nilgiri tahr can be found only in India.

### Threats:

- Habitat loss mainly due to overgrazing of domestic livestock.
- Illegal hunting, and climate change.

### Conservation Status

- IUCN Red List- Endangered (EN).
- o WPA 1972- Schedule I.

# Eravikulam National Park (ENP)

#### • About

- It is a 97 km2 national park located along the Western Ghats in the Idukki and Ernakulam districts of Kerala.
- o It is the first national park in Kerala.
- Anamudi, 2,695 meters, the highest peak in South India is inside this park.
- Eravikulam National Park is also the land of "Neelakurinji", A flower that blooms once every twelve years.

### Legal Status

- Eravikulam was declared a wildlife Sanctuary in 1975 for the protection of the indigenous population of Nilgiri Tahr.
- In 1978, it was declared a National Park considering its biodiversity.

#### Flora

- Three major types of plant communities are found in the Park-
  - Grasslands.
  - Shrublands.
  - Forests.
- The terrain consists of high altitude grasslands interspersed with sholas.

#### Fauna

- o The **Nilgiri Tahr**, half the world population of the endangered Nilgiri Tahr lives in Eravikulam.
- Lion-tailed macaques, gaur, Indian muntjac.
- Tiger and Leopard.
- Panthers of the Park are spotted in open grasslands while Civet cats and Jungle cats live in the Sholas of the upper plateau.
- Sloth Bear, Nilgiri Langur, Giant etc.

## **News in Between the Lines**

### Context

Recently, The Kerala Health Department confirmed two cases of the gastrointestinal infection norovirus in class 1 students in Ernakulam district.

Key Highlights:





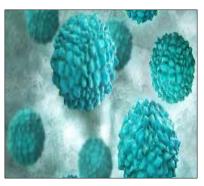




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### **Norovirus**



**Green Comet** 

- Norovirus has been circulating among humans for over 50 years and is thought to be one of the primary causes of gastroenteritis.
- It is commonly referred to as 'food poisoning' or a 'stomach bug'. Norovirus is highly contagious.
- The virus is estimated to kill 200,000 persons globally every year.
- Most deaths are occurring among those below the age of five years and those over the age of 65 years.
- The virus is capable of surviving low temperatures, and outbreaks tend to be more common during the winter and in colder countries — that is why it is sometimes referred to as "winter vomiting disease".
- Symptoms
  - Norovirus leads to diarrhoea, vomiting, nausea, and abdominal pain.
  - Being a diarrhoeal disease, it can lead to dehydration, so drinking plenty of fluids is recommended.

#### Transmission

- Most outbreaks of this virus happen when infected people spread the virus to others through direct contact.
- Food, water, and surfaces contaminated with norovirus can also cause outbreaks.

### ❖ Context

Green comet' is appearing close to Earth after 50,000 years.

### Key Highlights:

- NASA said observers in the Northern Hemisphere will find the comet in the morning sky during January.
- It'll become visible in the Southern Hemisphere in early February.
- The comet termed as C/2022 E3 (ZTF).

### **❖** Green Comet:

- Origin
  - The orbit indicates it comes from the edge of our solar system, a distant reservoir of comets we call the Oort cloud.
  - The Oort cloud is thought to be a big, spherical region of outer space enveloping our sun, consisting of innumerable small objects, such as comets and asteroids.

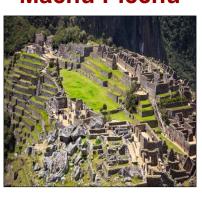
### Distance From Earth

 The green comet could be at a distance of 2.5 light minutes from Earth, meaning a "mere" 27 million miles.

### Comet

- Comets are frozen rocky or gas-filled objects that are remnants of the formation of the solar system.
- Due to their composition, characteristics and the path they move in, they tend to leave a light "behind them".
- Here, the comet itself is green (called the head of the comet) and emits a whitish light behind it (often called the tail of the comet).

# Machu Picchu



### Context

As protests rage in Peru, the popular tourist destination of Machu Picchu has been indefinitely shut for visitors.

## \* About Machu Picchu:

- Machu Picchu is an Incan citadel set high in the Andes Mountains in Peru, above the Urubamba River valley.
- It is often referred as the "Lost City of the Incas.
- It was built in the 15th century and later abandoned.
- It is famous for its sophisticated dry-stone walls that fuse huge blocks without the use of mortar, and intriguing buildings that play on astronomical alignments and panoramic views.
- Machu Picchu was declared a Peruvian Historic Sanctuary in 1981 and a UNESCO World Heritage Site in 1983.
   In 2007, Machu Display was veted one of the New Seven Wonders of the World in a
- In 2007, Machu Picchu was voted one of the New Seven Wonders of the World in a worldwide internet poll.

## **Face to Face Centres**





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## **TROPEX-23**



## Context

Theatre Level Operational Readiness Exercise (Tropex-23) Indian Navy's Largest War Game.

### **❖** About TROPEX:

- The 2023 edition of Indian Navy's major maritime exercise TROPEX, is currently underway in the **Indian Ocean Region.**
- This operational level exercise is **conducted biennially** and witnesses participation not only by all Indian Navy units but also of Indian Army, Indian Air Force & Coast Guard assets.
- As part of the exercise, all surface combatants of the Indian Navy including **Destroyers**,
   Frigates, Corvettes as well as submarines and aircraft are put through complex maritime operational deployment.
- This exercise provides an opportunity to test the combat readiness of the combined Fleets
  of the Indian Navy to operate in a multi-threat environment.

### **BharOS**



### Context

 'BharOS', a Made in India mobile operating system developed by IIT Madras successfully tested.

### What is BharOS?

- It is an indigenous, or homegrown, mobile operating system (OS), like Android or iOS.
- These systems help smartphone users interact with their device and access its features, while ensuring safety.
- BharOS, in particular, is meant to be a contribution towards the idea of a self-reliant India or 'Atmanirbhar Bharat' by creating a secure OS environment for India-based users.
- The OS can be installed **on commercial off-the-shelf handsets**, stated the IIT Madras.
- BharOS would offer **Native Over The Air (NOTA)** updates, meaning that security updates and bug fixes will be automatically installed rather than users having to check for updates and implementing them on their own.

# National Voters' Day



# ❖ Context

➤ 13th National Voters' Day (NVD) to be celebrated on 25th January 2023. Theme for this year's NVD is 'Nothing Like Voting, I Vote for Sure'.

### About National Voters' Day:

- National Voters' Day has been celebrated on January 25 every year, all across the country to mark the foundation day of the Election Commission of India, i.e. 25th January 1950.
- The main purpose of the NVD celebration is to create electoral awareness amongst citizens and encourage them to participate in the electoral process.
- The National Voters' Day is also used **to facilitate enrolment of voters**, especially the newly eligible young voters by handing over their Elector Photo Identity Card (EPIC) to them in the NVD functions held across the country.
- NVD is celebrated at the national, state, district, constituency and polling booth levels, which makes it one of the largest celebrations in the country.

# National SC – ST Hub



## Context

➤ A National SC-ST Hub Conclave was held in Mumbai and was organized by the Union Ministry of Micro Small and Medium Enterprise.

### Key Highlights:

- **National SC ST Hub** is being implemented by the Union Ministry of MSME to provide professional support to SC-ST entrepreneurs and thus promote inclusive growth.
- The Hub supports entrepreneurs of the SC and ST communities in capacity building, market linkages, finance facilitation and tender bid participation.
- Under the Special Credit Linked Capital Subsidy Scheme, all the SC-ST MSEs of manufacturing as well as service sector are eligible for 25% subsidy, with a ceiling of Rs. 25 lakh, for procurement of Plant & Machinery and equipment through institutional credit.
- Under the Special Marketing Assistance Scheme (SMAS), marketing support is provided to the SC/ST enterprises for enhancement of competitiveness and marketability of their products through National SC-ST Hub.

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