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# DAILY pro PARE

Current affairs summary for prelims

# 30 June, 2022

# **Coal Mine Pit Lakes**

## Context

> The coal ministry has approached the environment ministry for inclusion of **five coal mine pit lakes** in **Ramsar List.** 

## \* Key Highlights

- As per the guidance of MoEFCC, CIL has identified five pit lakes in the **States of West Bengal, Odisha, Jharkhand and Madhya Pradesh** for consideration of inclusion in Ramsar list.
- CIL is in process of preparing the Ramsar Information Sheet (RIS).
- These mine pit water bodies are regularly visited by different species of birds and also have an avifauna population.
- The Ministry of coal is obtaining support and assistance from the **World Bank, GIZ and other global institutions** for repurposing abandoned mine sites to make them safe, environmentally stable and suitable for appropriate commercial usage.

### \* Ramsar Convention

- The Convention on Wetlands of International Importance is an international agreement promoting the conservation and wise use of wetlands. It is the only global treaty to focus on a single ecosystem.
- There are over 2,400 Ramsar sites around the world with most sites being in the United Kingdom and Mexico.
- The **largest area** under the Convention protection is in **Bolivia** with 148,000 square km area designated.
- The world's first site was the Cobourg Peninsula in Australia, designated in 1974. The largest site is Rio Negro in Brazil (120,000 square kilometres).
- There are **49 sites in India currently**.

# Single Use Plastic Ban

- ✤ <u>Context</u>
  - With the ban on 12 single-use plastic items coming into force from July 1 2022, the government has adopted various measures to ensure its effective enforcement.

### \* Key Measures

- A **national dashboard** that will keep track of the implementation has been set up.
- Setting up **control rooms** at national and state levels, which will be supervised by the Central Pollution Control Board.
- Special enforcement teams will be formed to check illegal manufacture, import, stocking & distribution, sale & use.
  States & UTs have been asked to set up border checks to stop inter-state movement.
  A grievance redressal app has been launched for the citizens to act as watchdogs.

## Nine Criteria for Identifying a Wetland of International Importance

Group A of the Criteria.	Sites containing representative, rare or unique wetland types
Criterion 1:	A wetland should be considered internationally important if it contains a representative, rare, or unique example of a natural or near-natural wetland type found within the appropriate biogeographic region.
Group B of the Criteria.	Sites of international importance for conserving biological diversity
	Criteria based on species and ecological communities
Criterion 2:	A wetland should be considered internationally important if it supports vulnerable, endangered, or critically endangered species or threatened ecological communities.
Criterion 3:	A wetland should be considered internationally important if it supports populations of plant and/or animal species important for maintaining the biological diversity of a particular biogeographic region.
Criterion 4:	A wetland should be considered internationally important if it supports plant and/or animal species at a critical stage in their life cycles, or provides refuge during adverse conditions.
	Specific criteria based on waterbirds
Criterion 5:	A wetland should be considered internationally important if it regularly supports 20,000 or more waterbirds.
Criterion 6:	A wetland should be considered internationally important if it regularly supports 1% of the individuals in a population of one species or subspecies of waterbird.
	Specific criteria based on fish
Criterion 7:	A wetland should be considered internationally important if it supports a significant proportion of indigenous fish subspecies, species or families, life-history stages, species interactions and/or populations that are representative of wetland benefits and/or values and thereby contributes to global biological diversity.
Criterion 8:	A wetland should be considered internationally important if it is an important source of food for fishes, spawning ground, nursery and/or migration path on which fish stocks, either within the wetland or elsewhere, depend.
	Specific criteria based on other taxa
Criterion 9:	A wetland should be considered internationally important if it regularly supports 1% of the individuals in a population of one species or subspecies of wetland-dependent nonavian animal species.



## Extent of Pollution in India

- According to CPCB, plastic waste generation in 2020-21 was **41.27 lakh tonnes.**
- The per capita waste generation was 3 kg per annum.
- There are **683 units** manufacturing single-use plastics with a cumulative capacity of **2.44 lakh tonne per**

## ✤ <u>About the Ban</u>

- The items had been chosen on the basis of three criteria - low utility, high littering potential & availability of alternative materials.
- The use of these items by consumers is also banned.

- Single use accounts for 10-35% of the total plastic waste.
- Biodegradable and Compostable Plastics
- Government is encouraging industry to come up with **alternatives** to single use in the form of biodegradable and compostable plastics.
- However, experts have expressed concern that biodegradable plastic would still be hazardous due to following reasons : In order to make plastic biodegradable, additives are added.
  - These additives fragments plastic into microplastics which are very difficult to deal with.

## Face to Face Centres

DELHI MUKHERJEE NAGAR: 9205274741, 42 | LAXMI NAGAR : 9205212500, 9205962002 | RAJENDRA NAGAR: 9205274743 | UTTAR PRADESH PRAYAGRAJ: 0532-2260189, 8853467068 | LUCKNOW (ALIGANJ): 0522-4025825, 9506256789 | LUCKNOW (GOMTI NAGAR): 7234000501, 7234000502 | GREATER NOIDA: 9205336037, 38 | KANPUR: 7887003962, 7897003962 | GORAKHPUR : 7080847474, 9161947474 | ODISHA BHUBANESWAR: 9818244644/7656949029

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# mRNA Vaccine

## Context

Recently, the country's first home-grown mRNA Covid-19 vaccine GEMCOVAC-19, developed at Pune's Gennova Biopharmaceuticals has got a 'restricted emergency use' nod for the 18-and-above age group.

#### Key Highlights \*\*

- mRNA vaccines are required to be kept at sub-zero ٠ temperatures.
- It was a mammoth task for Gennova scientists to develop a thermostable mRNA Covid-19 vaccine.
- Scientists had to innovate to suit local needs to make it affordable and deployable.
- The new vaccine can now be stored at the ٠ temperature of a standard medical refrigerator.

#### mRNA Vaccine \*

- Conventional vaccines put a weakened or inactivated virus in the human body to activate an immune response.
- mRNA vaccine (Covid-19 vaccines -Pfizer-BioNTech and Moderna) used messenger RNA or mRNA to deliver a message to human immune system.
- genetically Basically, the technology uses ٠ engineered mRNA to instruct cells to make the Sprotein found on the surface of the Covid-19 virus.
- After vaccination, the muscle cells begin making S-٠ protein pieces and displaying them on cell surfaces.
- This causes the body to create antibodies.
- These vaccines have to be stored at sub-zero temperatures as mRNA is fragile and breaks down easily.

# <u> Uranium Deposits</u>

### Context

- Recently, Rajasthan has come on the world map with huge reserves of uranium.
- > These deposits are found at Rohil (Khandela Tehsil) in Sikar district, which is over 120 km from state capital Jaipur.

# Key Highlights

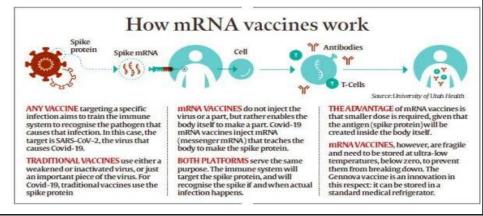
- According to initial estimates, there may be around 12 million tonnes of uranium deposits.
- The Rajasthan government has forayed into the field of uranium mining by issuing a letter of intent (LoI) to Uranium Corporation of India.
- The LoI is for excavation of ore of this rare mineral in the state. Uranium About: Uranium is a silvery-white metallic chemical element in the periodic table, with atomic number 92. It is assigned the chemical **symbol U**. A uranium atom has 92 protons and 92 electrons, of which 6 are valence electrons. Uranium has the highest atomic weight of all naturally occurring elements.

## Thermostable Vaccine

- The challenge in India was to be able to store the vaccine between 2-8 degree Celsius.
- This challenge was addressed by Lyophilisation.

#### • Lyophilisation:

- The conversion from liquid to powder form of the vaccine takes place via Lyophilisation.
- This is **freeze-drying**, a process where the water is removed from the product after it is frozen.
- It is placed under a vacuum allowing the ice to change directly from **solid to vapor** without passing through a liquid phase.
- The surrounding pressure has to be tweaked and then kept stable.
  - To ensure the characteristics of the vaccine are the same as before Lyophilisation.





- **Distribution:** 
  - After Jharkhand and Andhra Pradesh, Rajasthan is the third state where uranium has been found.
  - Currently, excavation of uranium is going on at Jadugoda in Jharkhand as well as Andhra Pradesh.

  - The largest producers of uranium in the world are Kazakhstan, Canada and Australia.
  - This mineral has also been found in Niger, Russia, Namibia, Uzbekistan, the US and Ukraine.
  - India also imports its rare mineral needs from the world's largest uranium-producing nations like Kazakhstan, Russia, Uzbekistan, and Canada.
  - **Application:** 
    - Uranium is mainly used for generating electricity and also for nuclear energy, medicines, defense equipment and photography, among others.

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# 30 June, 2022

News in Between the Lines				
Establishment Clause	<ul> <li>Context         <ul> <li>The US Supreme Court's decisions in recent three cases have set in debate over the U.S. Constitution's First Amendment's Establishment Clause.</li> </ul> </li> <li>About the Clause         <ul> <li>The First Amendment's Establishment Clause prohibits the government from making any law "respecting an establishment of religion." It basically separates religion from state.</li> <li>This clause also prohibits government actions that unduly favor one religion over another. It also prohibits the government from unduly preferring religion over non-religion, or non-religion over religion.</li> <li>The government policies and actions in those cases were taken to avoid violating the clause.</li> <li>However, according to some legal experts, the SC decision does not undermine the clause as it protects diverse religious expression also.</li> </ul> </li> </ul>			
<section-header></section-header>	<ul> <li>Context</li> <li>The Cabinet Committee on Economic Affairs has approved computerization of Primary Agricultural Credit Societies (PACS).</li> <li>Key Highlights</li> <li>Computerization will be done in 5 years with total outlay of Rs. 2516 crores of which central share would be Rs. 1528 crores.</li> <li>They will be brought on a common platform at national level and have a Common Accounting System (CAS) for their day to day business.</li> <li>The software will be in vernacular language having flexibility of customisation as per the needs of the states.</li> <li>Various government schemes in which credit and subsidy are involved can then also be implemented through PACS.</li> <li>About PACS</li> <li>PACS constitute the lowest tier of the three-tier short-term cooperative credit (STCC) in the country.</li> <li>It comprises approx.13 Cr. farmers as its members.</li> <li>They account for 41 % (3.01 Cr. farmers) of the KCC loans given by all entities in the country.</li> <li>95 % of these KCC loans (2.95 Cr. farmers) through PACS are given to the Small and Marginal farmers.</li> <li>The other two tiers viz. State Cooperative Banks (StCBs) and District Central Cooperative Banks (DCCBs) have already been automated by the NABARD and brought on Common Banking Software (CBS).</li> </ul>			
Horn of Africa	<ul> <li>Context</li> <li>Recently, China held the first China-Horn of Africa Peace, Governance and Development Conference.</li> </ul>			



### Arr Key Highlight

- China has been investing across the African continent throughout the last decade.
- The conference held in Ethiopia witnessed the participation of foreign ministries from the following countries of the Horn :
  - Kenya, Djibouti, Ethiopia, Sudan, Somalia, South Sudan, and Uganda.

## \* About Horn of Africa

- The Horn of Africa includes the countries of **Djibouti, Ethiopia, Kenya, Sudan, South Sudan and Eritrea, Somalia.**
- It is a peninsula situated in the northeast of the African continent
- Extends out into the Arabian Sea for hundreds of kilometres and is located along the south of the Gulf of Aden.
- This region is the easternmost projection of Africa.

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# Face to Face Centres

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Prasanta Chandra Mahalanobis	<ul> <li>Context</li> <li>National Statistics Day is celebrated every year on June 29 to mark the birly anniversary of Indian scientist and statistician Prasanta Chandra Mahalanobis.</li> <li>Incidentally, June 28 also marked 50 years since his passing.</li> <li>Key Highlights         <ul> <li>He was born on June 29, 1893, in Calcutta.</li> <li>He is best remembered for the Mahalanobis distance, a statistical measure.</li> </ul> </li> </ul>	
	<ul> <li>The formula is used widely in the field of cluster analysis an classification.</li> <li>In 1950, he formed the Indian Statistical Institute (ISI) with a Statistical Laboratory set up. He contributed to the design of large-scale sample surveys. He was instrumental in designing the way we conduct surveys today. He also introduced a method for estimating crop yields using statistical sampling. He is also known for being one of the members of the first Plannin Commission of free India.</li> <li>He was instrumental in formulating India's second five-year-plan (1950), which laid the blueprint for industrialisation and development in India.</li> <li>In 1933 he started 'Sankhya: The Indian Journal of Statistics'.</li> <li>About National Statistics Day</li> <li>The first National Statistics Day was observed in 2007.</li> <li>The day is marked for spreading awareness among the country's youth about the importance of Statistics in policy formulation and socio-economic planning.</li> </ul>	al y. al <b>9</b>
Deregulation of Sale of	◆ <u>Context</u>	
Domestically Produced	The Cabinet Committee on Economic Affairs has approved 'Deregulation of Sele of Demostically Predwood Crude Oil'	of
Crude Oil	Sale of Domestically Produced Crude Oil'.	
	<ul> <li>This means that the government will cease allocation of crude oil an condensate. It will be effective from 01.10.2022.</li> <li>The condition in the Production Sharing Contracts (PSCs) to sell crude oil to government or its nominee or government companies will now be waived off.</li> <li>All Exploration and Production (E&amp;P) companies will now be free to se crude oil from their fields in the domestic market.</li> <li>However, exports will still not be permissible.</li> </ul>	to
PM Gati Shakti Portal	<ul> <li>Context</li> <li>Recently, the Ministry of Steel has joined the PM Gati Shakti Portal an uploaded the geo locations of key projects with an aim of identifying an bridging missing infrastructure connectivity gaps.</li> </ul>	
Gatichakti	<ul> <li>Key Highlights         <ul> <li>Ministry of Steel, in line with the goal of PM GatiShakti has identified 38 hig impact projects to develop multimodal connectivity and bridge the missin infrastructure gaps.</li> <li>It has created its first layer of data with uploading Geo locations of all the stee plants of CPSEs under the administrative control of Ministry of Steel.</li> </ul> </li> </ul>	ġ



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- Planned expansion of railway lines, creation of new Inland Waterways, roads, ports, gas pipeline connectivity and airports/airstrips will result in creating much needed logistics solution, which will drive the steel sector towards achieving its targeted goals by 2030-31 as delineated in NSP (National Steel Policy) 2017.
- Gati Shakti National Master Plan for Infrastructure development was launched by Hon'ble Prime Minister in October 2021 with the objective to bring different Ministries together and for integrated planning and coordinated implementation of infrastructure connectivity Projects.
- It will incorporate the infrastructure schemes of various Ministries and State Governments and will alsoleverage technology extensively including spatial planning tools.

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