



Current Affairs : 22 June 2023

#### PRIME MINISTER'S VISIT TO USA

#### Why in news?

- PM Modi is on an Official State Visit to USA. This is his first state visit to the country.
- On the first day of his visit, PM led the celebrations of the 9<sup>th</sup> annual International Day of Yoga at the United Nations Headquarters on June 21.
- In December 2014, the UN General Assembly had adopted a resolution proclaiming June 21 as the International Day of Yoga.
- On the second day of his visit, PM Modi will
- meet President Biden to continue their high-level dialogue;
- o attend a State Dinner hosted by President Biden and First Lady Dr. Jill Biden;
- address a Joint Sitting of the U.S. Congress

#### What is a State visit?

#### • About

- State visits are the **highest-ranked category** of foreign visits to the US, where the head of a state visits the US on the formal invitation of the US President.
- Before PM Modi, the only two state visits under President Joe Biden have been by France's President Emmanuel Macron and South Korea's President Yoon Suk Yeol.
- Invitation for a state visit signifies that the US considers the guest nation an important friend and ally.

#### • Key events that mark a state visit

- A state dinner is a crucial part of such a visit.
- The state dinner is held at the White House, the residence of the US President.
- It has the symbolic value of a visiting dignitary sharing a meal at the host's home.
- The other key events that mark a state visit include:
- 21-gun salute White House arrival ceremony and
- an invitation to stay at the Blair House (the US President's guesthouse across Pennsylvania Avenue).





**India-US Bilateral Relations** 

#### Trade & Economic Relations between India and US

- The U.S. has emerged as India's biggest trading partner in 2022-23 on account of increasing economic ties between the two countries.
- In 2022-23, the bilateral trade between India and the USA stood at a record US\$ 191 billion as against US\$ 119.42 billion in 2021-22.
- In 2022-23, India had a trade surplus of ~US\$ 30 billion with the US.
- In FY 2020-21, India received the highest ever FDI amounting to US\$ 81.72 billion.
- USA became India's second largest source of FDI during 2020-21 with inflows of US\$ 13.82 billion.
- US is one of the top 5 investment destinations for Indian FDI.

#### **Challenges in India – US relation**

- Ukraine war and Indian stand
- The United States worries about the India-Russia relationship, especially that India's reliance on Russian military imports will continue.
- Recently, India's oil imports from Russia have displaced Iraq as its top supplier.
- Challenges in trade and technology relationships
- The US still has significant export controls on India (instituted after the 1998 nuclear test), which inhibits the free transfer of technology.
- In 2019, USA terminated India's designations as a beneficiary developing country under the Generalized System of Preferences (GSP) programme.
- GSP is the largest and oldest US trade preference programme.
- It is designed to promote economic development by allowing duty-free entry for thousands of products from designated beneficiary countries.
- $\circ$   $\;$  The United States is concerned about India's turn towards protectionism.
- India makes up only two percent of the United States' merchandise trade due to policies that protect domestic industry from foreign competition.
- United States is concerned about the state of Indian democracy





- Many members of Congress and officials in the Biden administration are following reports on civil liberties and minority rights in India.
- Furthermore, questions are being raised surrounding **data protection in India** and what the implications are vis-à-vis surveillance and censorship.
- Protracted delays in the processing of visas for the United States
- Since the Covid-19 pandemic, protracted delays in the processing of visas for the United States have been a persistent irritant in bilateral relationship.
- Data published by the US embassy in India shows that the wait for B1 and B2 visas still stretches beyond 400 days in many instances.

### ANCIENT MAYAN CITY

Recently, a previously unknown ancient Mayan city has been discovered in the jungles of southern Mexico by anthropologists.



#### About Ancient Maya city:

It is located in the Balamku ecological reserve on the country's **Yucatan Peninsula.** 

- This city has been **named Ocomtun** meaning "stone column" in the Yucatec Maya language.
- This would have been an important centre for the peninsula's central lowland region between 250 and 1000 AD.
- The city includes large **pyramid-like buildings**, **stone columns**, **three plazas** with "imposing buildings" and other structures arranged in almost-concentric circles.
- It has a core area located on high ground surrounded by extensive wetlands.

### Key Facts about Mayan Civilization

- The Mayans are probably the best-known of the classical civilizations of Mesoamerica.
- Originating in the **Yucatán peninsula around 2600 B.C.**, they rose to prominence around A.D. 250 in present-day southern Mexico, Guatemala, northern Belize and western Honduras.
- Building on the inherited inventions and ideas of earlier civilizations, the Maya developed **astronomy, calendrical systems and hieroglyphic writing.**





- They were also noted for elaborate and highly decorated ceremonial architecture, including temple pyramids, palaces and observatories, all built without metal tools.
- They were also skilled farmers, clearing large sections of tropical rainforest and, where groundwater was scarce, building sizable underground reservoirs for the storage of rainwater.

#### Where is Yucatan Peninsula?

- It is a Northeastern projection of Central America which is lying between the Gulf of Mexico to the west and north and the Caribbean Sea to the east.
- The peninsula is almost wholly composed of beds of **coralline and porous limestone rocks.**

### TITANIC TOURIST SUBMERSIBLE

Recently, the Titan, the vessel that went missing in the area of the Titanic wreck in the North Atlantic.



#### About Titanic tourist submersible:

- **What it is?** A submersible is a small boat or other craft, designed especially for research and exploration.
- It is more **limited in its movement and how** long it can stay underwater.
- A submersible **needs a mother ship** that can launch and recover it.
- These are small, limited-range watercrafts designed for a set mission, that are built with characteristics that allow them to operate in a specific environment
- These vessels are **typically able to be fully submerged in water** and cruise using their own power supply and air renewal system.
- While some submersibles are remotely operated and essentially manually controlled or programmed robots, these usually operate unmanned.
- Vessels like the missing Titan are known as human-occupied vehicles.
  What is a submarine?
- It is a watercraft that is capable of **independent operation under the sea.**
- It does **not require support ships** because submarines can renew their air and power supplies independently.

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- When the submarine is to dive water is filled in water tanks and it is made heavier.
- As soon as the average density of a submarine becomes greater than the density of seawater it sinks.

#### **CENTRE WITHDRAWS CONTROVERSIAL LIVESTOCK BILL**

#### Why in news?

• Facing criticism, the Centre has withdrawn the draft Live-stock and Live-stock Products [Importation and Exportation] Bill, 2023.

#### Livestock Bill 2023

#### • About

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- The Bill is meant to replace the Live-stock Importation Act, 1898, and the Live-stock Importation (Amendment) Act, 2001.
- It frames guidelines for the **import and export** of live animals.
- $\circ$   $\;$  It is different from the existing law in three key aspects:
- It allows export of live animals,
- It widens the scope of animal import-export (including cats and dogs among 'live-stock'), and
- It takes away state governments' powers to regulate this area.
- Draft prepared by
- The Department of Animal Husbandry and Dairying (DAHD), under the Ministry of Fisheries, Animal Husbandry and Dairying.
- Need for a new bill
- $\circ$   $\;$  The present law that regulates import of live-stock is 125 years old.
- The Live-stock Importation Act, 1898, being the pre-constitutional/pre-independence Central Act. Hence, a need has been felt to align it with the contemporary requirements and prevailing circumstances related to **sanitary and phyto-sanitary measures**.

#### What is new in the proposed draft?

Development of exports of live-stock and live-stock products





- The earlier law regulates only importation of live-stock, while the proposed draft Bill has provisions to regulate live-stock exports also.
- The Section 4 of the proposed Bill provides the government the power to make arrangements for promotion and development of exports of live-stock and live-stock products.
- Expanded the definition of live-stock
- The proposed draft bill has 10 Sections, and has expanded the definition of live-stock to include feline and canines also.
- As per the 1898 act, live-stock includes horses, kine, camels, sheep and any other animal which may be specified by the Central Government by notification in the Official Gazette.
- Live-stocks and live-stock products as commodity
- The Centre has defined the live-stocks and live-stock products as commodity in the proposed draft Bill.
- Commodity means live-stock, products of live-stock origin, live-stock genetic material, biological products and pathological material of live-stock origin.
- Takes away some power of state government
- The proposed draft bill takes away some powers of state governments to regulate this area.

#### Criticism faced by the proposed draft Bill

- Animal rights organisations have said that allowing the live export of animals from India is a blanket free pass for the abuse of millions of animals farmed for food and other uses.
- According to 2021 figures released by the United Nations, almost 2 billion of the 80 billion land animals raised for food around the world are exported alive to different countries.

### WHAT IS THE NEW COLLECTIVE QUANTIFIED GOAL?

#### What is the New Collective Quantified Goal?

- A commitment of '\$100 billion per year till 2020' to developing nations from developed countries was a target set at the **Conference of Parties** (COP) in 2009.
- But estimates since then show addressing climate change may cost billions, and even, trillions of dollars.





- Therefore, the **2015 Paris Climate Agreement** agreed on setting a New Collective Quantified Goal (NCGQ) for climate financing prior to 2025 a reference point which accounts for the needs and priorities of developing nations.
- The NCGQ is thus, termed the "most important climate goal". It pulls up the ceiling on commitment from developed countries.
- The NCGQ is expected to be finalised by 2024. It will replace the current climate finance goal of \$100 billion annually from developed countries.

#### What is the Need for a New Finance Goal?

- Out of the promised \$100 billion per year, developed countries provided \$83.3 billion in 2020, as per a report by the Organisation for Economic Co-operation and Development.
- These figures may be misleading and inflated by as much as 225%, an Oxfam analysis found, as
  "there is too much dishonest and shady reporting".
- Moreover, the \$100 billion target set in 2009 was seen more as a political goal, since there was no effort to clarify the definition or source of 'climate finance'.
- The economic growth of developed countries has come at the cost of high carbon emissions, and thus they are obligated to shoulder greater responsibility.

#### What do Developed Countries Say?

- Developed countries argue that NCQG must be viewed as a "**collective goal**" for all developed and developing countries.
- Experts worry this argument pushes the "**net zero**" pathways onto developing countries, which cannot feasibly pay for mitigation, adaptation, loss and damage, along with sustainably developing key elements of infrastructure.
- Net zero refers to the **balance between the amount of greenhouse gas (GHG) that's produced** and the amount that's removed from the atmosphere.
- $\circ$   $\,$  It can be achieved through a combination of emission reduction and emission removal.
- Countries also argue for mobilising private-sector investments and loans as the critical component of climate finance.





### DEENDAYAL ANTYODAYA YOJANA-NATIONAL URBAN LIVELIHOODS MISSION (DAY-NULM)

Recently, the United Nations Development Programme (UNDP) and the Deendayal Antyodaya Yojana-National Urban Livelihoods Mission (DAY-NULM) entered into a collaborative partnership.



About the UNDP and DAY-NULM Partnership:

**Aim:** To **empower women** to make **well-informed career choices** in the field of entrepreneurship.

- It will provide support for women looking to start and expand their enterprises such as the **care economy, digital economy, electric mobility, waste management, food packaging** and more.
- Focused on fostering entrepreneurship development and accelerating enterprise growth.
- **Time-Period:** It is a **three-year project, extendable beyond 2025** which will cover eight cities in the initial phase.
- UNDP will offer national-level capacity-building support to DAY-NULM.
- This support will focus on knowledge generation and management, such as compiling compendiums of best practices related to urban poverty, to enhance the implementation of national-level schemes.
- UNDP will also contribute to the initiative by **developing community business mentors** called Biz-Sakhis in selected project locations.
- These mentors, who possess valuable business knowledge, can support new and existing enterprises, and serve as a resource for DAY-NULM at a later stage.

#### Key facts about the DAY-NULM

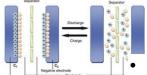
- It is a flagship mission under the Union Ministry of Housing and Urban Affairs.
- It has the aim to uplift the urban poor by enhancing sustainable livelihood opportunities through skill development.
- **Funding:** It will be shared between the Centre and the States in the ratio of 75:25. For North Eastern and Special Categories the ratio will be 90:10.





### **BIODEGRADABLE SUPERCAPACITOR**

Recently, scientists at Gujarat Energy Research and Management Institute (GERMI) have developed the thinnest, lightweight and biodegradable paper-based supercapacitor.



#### About Biodegradable Supercapacitor:

fast charging/discharging cycle, high power density and a longer lifecycle.

- Features
- This supercapacitor which can fully charge a device within 10 seconds, has been **developed from seaweed** (marine macroalgae).
- The device is of **high tensile strength and performance**, as well as cost-effective, according to the researchers.
- The product **can be used in electronics, memory backup systems**, airbags, heavy machines, electric vehicles, etc.; hence, it holds a huge business prospect.

#### What is Seaweed?

- Seaweeds are **macroalgae attached** to rock or other substrata and are found in coastal areas.
- They are classified as **Chlorophyta** (green), **Rhodophyta** (red) and **Phaeophyta** (brown) based on their pigmentation.
- Among them, Chlorophyta holds more potential components like carbohydrates, lipids, proteins and bioactive compounds in the cell wall.
- Green seaweed has a high amount of a particular type of cellulose in its cell wall.