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# Current Affairs - 02 May 2025

### GREEN HYDROGEN CERTIFICATION SCHEME OF INDIA (GHCI)



• It was launched by the Ministry of New and Renewable Energy (MNRE), Government of India, under the National Green Hydrogen Mission, aiming to establish India as a global hub for

green hydrogen production and export.

• The scheme emphasizes accuracy in emissions data, strict monitoring, and international compatibility, aiming to boost investor confidence and support the growth of a credible green hydrogen market in India.

#### Features of GHCI:

- Hydrogen can be officially recognized as "green" only if its non-biogenic greenhouse gas emissions do not exceed 2 kg of CO<sub>2</sub> equivalent (CO<sub>2</sub>e)/kg of hydrogen, averaged over 12 months, under the
- The scheme **outlines a comprehensive certification process for producers** to verify that the hydrogen is produced using renewable energy and that the greenhouse gas emissions do not exceed 2 kg of CO<sub>2</sub> equivalent (CO<sub>2</sub>e)/kg of hydrogen.
- This threshold is measured across the production stages within a defined system boundary.
- The certification framework includes clear definitions, objectives, roles of stakeholders, eligible production pathways (electrolysis and biomass conversion) and emissions quantification methods.
- o Producers must appoint Accredited Carbon Verification (ACV) agencies, recognized by the Bureau of Energy Efficiency, for independent verification.





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### WHAT IS THE ORANGE ECONOMY?



At the World Audio Visual Entertainment Summit (WAVES) Summit in Mumbai, the PM spotlighted India's booming orange economy—powered by content, creativity and culture.

- The Orange Economy, also known as the 'creative economy,' is a concept that includes sectors related to creativity and cultural industries.
- According to the United Nations Economic Network, the creative economy is an
  evolving idea that focuses on the contribution and potential of creative assets to drive
  economic growth and development.
- This economy integrates economic, cultural and social aspects, interacting with technology, intellectual property and tourism objectives.
- It consists of **knowledge-based economic activities** with a development dimension, featuring cross-cutting linkages at macro and micro levels to the overall economy.
- These are industries **based on individual creativity, skill and talent,** with the potential to create jobs, wealth and cultural value.
- Industries within this economy include advertising, architecture, arts and crafts, design, fashion, film, video, photography, music, performing arts, publishing, research and development, software, computer games, electronic publishing, and TV/radio.
- Popularised by Colombian economists Felipe Buitrago and Iván Duque, the term "orange" symbolises creativity and cultural identity.
- According to the United Nations Educational, Scientific and Cultural Organization (UNESCO), the Orange Economy accounts for 3% of global gross domestic product (GDP) and 30 million jobs worldwide.
- Inspired by ideas, it's known for **constant innovation**, **singular products** (not mass production) and **digitized processes**.





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### **RISHIKESH-KARNAPRAYAG TUNNEL T-8**



Tunnel 8 (T-8) is set to become India's longest rail transportation tunnel at 14.57 km, surpassing the current longest T-50 (12.77 km) on the Udhampur-Srinagar-Baramulla Railway Link.

- T-8 is a twin tunnel situated on the Devprayag-Janasu stretch of the 125-km Rishikesh-Karnaprayag Broad Gauge Rail Link Project, in the state of Uttarakhand.
- The project is being implemented by Rail Vikas Nigam Limited (RVNL), a Navratna PSU under the Ministry of Railways, and executed by Larsen & Toubro (L&T).
- Over 83% of the 125-km alignment—about 104 km—comprises tunnels, making it one of the most underground-intensive rail projects in India.
- The rail line will connect Rishikesh to Karnaprayag, cutting travel time from 7 hours
   to just 2 hours, enhancing connectivity across five districts: Dehradun, Tehri
   Garhwal, Pauri Garhwal, Rudraprayag and Chamoli.

### **Engineering and Technological Highlights**

- Tunnel Boring Machines (TBMs) were used for the first time in Himalayan rail
  projects to excavate 4 km of T-8. These 2200-tonne machines were imported
  from Germany, transported via 17 shipments and assembled on site.
- The diameter of the TBM used for T-8 was 1 metres, larger than the 6-metre TBMs used in the Delhi Metro.
- The New Austrian Tunnelling Method (NATM) was used to excavate the remaining
   4.11 km of the tunnel, especially in non-uniform geological zones.
- Three advanced technologies were deployed for safety and precision:
  - o **Tunnel Seismic Prediction (TSP)** to detect geological faults.
  - o **Torque Box** for multidirectional boring capability.
  - o **Void Measurement** to detect and fill gaps behind tunnel linings.





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### PREVENTION OF MONEY LAUNDERING ACT (PMLA)

- The Prevention of Money Laundering Act (PMLA), 2002 was enacted in January
   2003 to combat money laundering and confiscate proceeds of crime.
- Section 3 defines money laundering as any attempt to project criminal proceeds as untainted assets.
- The **main objectives** of the Act are:
  - o To prevent and control money laundering,
  - o To attach and confiscate assets derived from crime,
  - o To address related economic offences in India.
- PMLA has undergone major amendments in 2009 and 2012 to expand its scope and enforcement powers.
- As of 2024-25, the ED has initiated 775 new investigations under the PMLA and filed
   333 prosecution complaints, demonstrating increased legal action against money laundering.

### **Enforcement Directorate (ED) Role**

- ED is the chief enforcement agency under PMLA, empowered to investigate, attach property, and file prosecution complaints.
- The Act mandates record maintenance and client identity verification by banks, financial institutions and intermediaries.
- Key institutions include:
  - o Adjudicating Authority (for attachment confirmation),
  - o **Appellate Tribunal**, and
  - o **Special Courts** (designated sessions courts for PMLA trials).
- The **Act allows international cooperation** through treaties and MoUs with foreign governments.





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### PRIVATE MEMBER'S BILL (PMB)



- A Private Member's Bill (PMB) is a legislative proposal introduced by any Member of Parliament (MP) who is not a Minister, whether elected or nominated.
- The **drafting responsibility** of a PMB lies **entirely with the MP** concerned, not with any Ministry.
- For introducing a PMB in Parliament, a **notice period of one month** is required under parliamentary rules.
- PMBs often reflect the ideological stance, personal convictions, or public interest concerns of the MP, especially those in the Opposition.

#### **Time Allocation for PMBs in Parliament**

- In the Lok Sabha, the last two-and-a-half hours of business on every Friday are earmarked for the introduction and discussion of PMBs.
- In the **Rajya Sabha**, PMBs are **taken up every alternate Friday** for two-and-a-half hours.

#### **Historical Record and Trends**

- Since Independence, only 14 PMBs have ever been passed and received Presidential assent, with the last one becoming law in 1970.
- In the 17th Lok Sabha (2019–2024), 729 PMBs were introduced in the Lok Sabha and 705 in the Rajya Sabha. Yet, only 2 PMBs were discussed in Lok Sabha, and 14 in the Rajya Sabha.
- In the 18th Lok Sabha, as of the 2024 Budget Session, only 20 MPs introduced PMBs, and not a single one was discussed due to disruptions and prioritisation of other business.





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### **UKRAINE'S CRITICAL MINERALS**



The U.S. and Ukraine signed a strategic minerals deal granting preferential U.S. access to Ukrainian mineral projects and establishing a joint investment fund for Ukraine's reconstruction.

- Rare Earth Elements (REEs) are a group of 17 chemically similar metals essential for
  making permanent magnets used in electric vehicles (EVs), smartphones, missile
  systems and wind turbines.
- The S. Geological Survey (USGS) lists 50 minerals as "critical", including lithium, nickel, cobalt and rare earths, due to their vital role in defence, aerospace, green energy and electronics.
- These minerals have **no commercially viable substitutes**, making their supply chain **strategically important**.

#### **Ukraine's Mineral Wealth**

- Ukraine has 22 of the 34 minerals classified as critical by the European Union (EU).
- Major critical minerals in Ukraine include:
  - Rare earth elements such as lanthanum, cerium, neodymium, erbium, yttrium, and scandium.
  - Lithium, nickel, manganese, beryllium, gallium, zirconium, graphite, apatite, fluorite and titanium.
- **Graphite reserves** in Ukraine account for approximately **20% of global resources**, crucial for **EV batteries** and **nuclear reactors**.
- **Lithium reserves** are estimated at **500,000 metric tonnes**, one of the largest in Europe. Key lithium areas include the **central, eastern and southeastern regions**.
- **Titanium** is concentrated in the **northwestern and central regions** and is used in the **aerospace and defence**





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#### SEBI WARNS INVESTORS AGAINST OPINION TRADING PLATFORMS

- Opinion trading platforms allow users to place bets or trade on the outcome of yes/no propositions related to real-world events.
- The payout is determined by whether the predicted event occurs.
- These platforms often mimic investment platforms by using financial terms like "profits," "stop loss," and "trading."

### • Imitating Investment Platforms

To appear legitimate or investment-oriented, some of these platforms use language typically associated with securities trading, which may mislead users into believing they are making genuine investments rather than bets.

### • Key Players in India

- Prominent Indian companies in this space include:
  - Probo (Gurugram-based): Offers prediction markets across diverse topics like sports, elections, and cryptocurrency.
  - **MPL Opinio**: Focuses solely on cricket-related predictions.

### **How Opinion Trading Platforms Operate**

#### • Betting on Real-Life Events

- o These platforms let users earn money by predicting the outcomes of real-world events such as sports matches, elections, weather changes, or crypto trends.
- Users place bets on "yes" or "no" type questions.
- For instance, users may be asked: "Will political party X win the election by a margin of N?"
- If their answer is correct, they win money; if incorrect, they lose their stake.

#### • Varied Themes and Topics

- o Popular themes include:
  - Outcomes of cricket and other sports matches
  - Individual athlete performances (e.g., runs scored or goals made)





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• Financial predictions like whether Bitcoin will reach a specific value

### **SEBI's Key Concerns on Opinion Trading Platforms**

### • Outside SEBI's Regulatory Scope

- SEBI clarified that opinion trading platforms generally fall outside its jurisdiction, as the activities conducted do not involve trading in recognized securities.
- o Therefore, these platforms are not regulated or registered with SEBI.

### Unrecognized and Illegal Trading

- o If any opinion traded on these platforms qualifies as a security, such trading becomes illegal since these platforms are not authorized stock exchanges.
- SEBI emphasized that no investor protection mechanisms will apply in such cases.

### • Risk of Regulatory Action

- SEBI warned that these platforms could face legal consequences for violations.
- o It also directed recognized stock exchanges to act against any such infractions.

### Global Regulatory Landscape

- o Countries like the US, UK, and Australia regulate opinion trading platforms.
- In the US, Kalshi operates under CFTC (Commodity Futures Trading Commission) oversight.
- However, platforms like Polymarket have faced legal issues for not being registered with regulators, indicating the complexities involved.

### • India's Regulatory Vacuum

- India's IT Ministry has proposed amendments to regulate online gaming, potentially covering platforms like Probo.
- However, these rules lack enforceability at present, leaving a significant legal gap in the oversight of opinion trading platforms.





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### PALAMU TIGER RESERVE



- It is located in the western part of the **Chotanagpur plateau** and is spread over two districts, viz, Latehar and Garhwa in **Jharkhand**.
- The reserve forms a part of the Betla National Park.
- This tiger reserve has a total area of 1,014 sq.km. with a core area of 414 sq.km. and a buffer area of 600 sq.km.
- It is **one of the first 9 tiger reserves** created in the country at the inception of 'Project Tiger'.
- It is the **first reserve in the world** in which a **tiger census** was **carried out as a pugmark count,** as early as 1932 under the supervision of J.W. Nicholson.
- The terrain is undulating with valleys, hills and plains.
- Three **rivers** namely **North Koyal, Auranga and Burha** flow through the valleys.
- The area is drought prone with **Burha being the only perennial river.**
- The geological formation consists of gneiss and includes granite and limestone.
- The area is very **rich in minerals like Bauxite and Coal.**

#### Flora:

- The vegetation in Palamau region comprises moist deciduous and dry deciduous forests to include Sal and bamboo as the major components.
- The western part of the Reserve is composed of dry deciduous forests and the other part shows characters of moist mixed deciduous nature.
- o The entire area has a **good distribution of bamboo thatches.**
- The herbarium recently prepared by the Tiger Reserve authorities records a good number of medicinal plants.

**Fauna**: Some keystone and principal species found in the reserve include **Tiger**, **Asiatic Elephant**, **Leopard**, **Grey wolf**, **Wild dog**, Gaur, Sloth bear and four horned antelope.