

## Today's Prelims Topics

### France discovered world's largest white hydrogen deposits

#### Context

France has discovered **46 million tons** of **natural hydrogen** beneath the soil of **Folschviller, Moselle region**.

#### What is White Hydrogen?

- **White hydrogen** (also called **natural hydrogen**) is a **naturally occurring form** of hydrogen found in the **Earth's crust**.
- Unlike **grey, blue, brown or green hydrogen**, it does not require **industrial production or carbon-emitting processes**.
- It is considered the **most environmentally friendly** form of hydrogen.
- **Advantages:**
  - **Naturally occurring:** Unlike other forms of Hydrogen, it **does not require industrial production**.
  - **Zero Emissions:** It does not emit Carbon.

#### Different types of Hydrogen

Type	Description
<b>Green Hydrogen</b>	<ul style="list-style-type: none"> <li>● Produced by splitting water into hydrogen and oxygen using renewable energy sources like solar or wind power.</li> <li>● It is <b>climate neutral</b> and a clean energy source.</li> </ul>
<b>Grey Hydrogen</b>	<ul style="list-style-type: none"> <li>● Produced from fossil fuels (natural gas, coal, etc.), <b>releasing carbon dioxide</b> into the atmosphere.</li> <li>● It accounts for about <b>95%</b> of the world's hydrogen supply.</li> </ul>
<b>Blue Hydrogen</b>	<ul style="list-style-type: none"> <li>● Produced using fossil fuels, but carbon emissions are captured and stored, making it more environmentally friendly <b>than grey hydrogen</b>.</li> </ul>
<b>Pink Hydrogen</b>	<ul style="list-style-type: none"> <li>● Produced by splitting water into hydrogen and oxygen using nuclear energy-powered electrolysis.</li> <li>● It is also known as <b>purple or crimson hydrogen</b>.</li> </ul>
<b>Turquoise Hydrogen</b>	<ul style="list-style-type: none"> <li>● Produced from natural gas through <b>methane pyrolysis</b>, generating solid carbon instead of CO<sub>2</sub>, making it a <b>cleaner alternative to grey hydrogen</b>.</li> </ul>

Source:

- [Times Now - White Hydrogen](#)

## Audible Enclaves: A New Era in Sound Control

### Context

Recent research has introduced a groundbreaking technology that enables sound to be heard only in specific locations, creating "audible enclaves."

### About Audible Enclaves

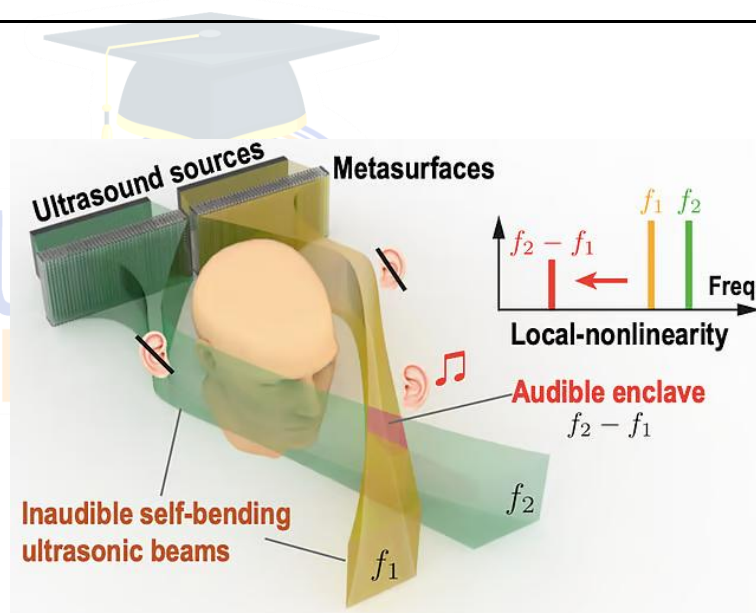
- **Audible enclaves** are **localized pockets of sound** that can be heard **only in a specific area**, while remaining completely silent elsewhere.
- This means sound can be directed to a single person or location without disturbing others nearby.

### What is Sound?

- Sound is a **vibration that moves through air as a wave**.
- The **frequency** of sound waves determines **pitch**:
  - **Low frequency** → **Deep sounds** (e.g., bass drum).
  - **High frequency** → **Sharp sounds** (e.g., whistle).
- Sound waves **spread out** as they travel due to **diffraction**, making it difficult to **confine sound to a specific area**.

### How Audible Enclaves Work?

- **Using Ultrasound as a Carrier:**
  - Ultrasound waves (above 20 kHz) are **inaudible to humans** but can carry normal sound through the air.
  - These ultrasound waves can be **shaped and controlled** to deliver sound only where needed.
- **Nonlinear Acoustics – Creating Sound at a Specific Spot:**
  - Normally, sound waves **mix linearly** (just adding together).
  - However, at high intensities, sound waves **interact nonlinearly**, producing **new frequencies** that weren't there before.
  - Scientists use **two ultrasound beams at different frequencies** that are **silent on their own** but generate **audible sound only where they intersect**.
- **Bending Ultrasound Waves:**
  - Normally, sound waves travel in **straight lines**.
  - By using **acoustic metasurfaces** (specialized materials that shape sound waves), scientists can **bend ultrasound beams** to meet at a specific target, creating an **audible enclave** in that location.
- **Difference Frequency Generation:**
  - When two ultrasound beams of **slightly different frequencies** overlap, they create a new sound at the difference between their frequencies.
  - **Example:**



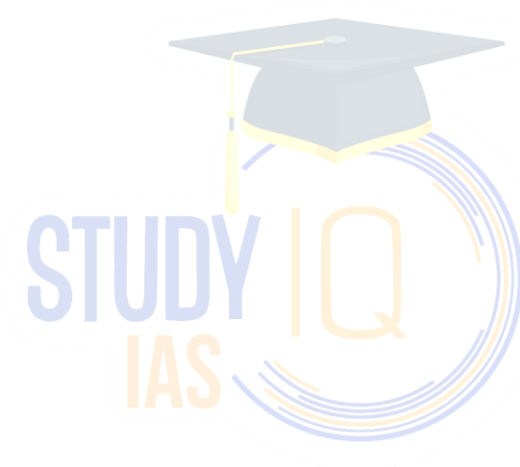
- One beam at **40 kHz**
- Another beam at **39.5 kHz**
- Difference = **0.5 kHz (500 Hz), which humans can hear**
- **This means sound only exists at the point where the waves meet, and nowhere else.**

#### Potential applications of Audible Enclaves

- **Private Audio:** Listen to music, podcasts, or calls without headphones, and without disturbing others.
- **Personalized Audio in Public Places:** Museums, libraries, and offices can provide location-based audio without speakers.
- **Noise Control:** Can be used to create **silent zones** by canceling unwanted noise.
- **Confidential Conversations:** Military, corporate, and security settings can ensure **private discussions in open spaces**.
- **Car Audio:** Passengers can listen to music without distracting the driver.

#### Source:

- [Down to Earth](#)
- [The Hindu](#)



## Availability of water ice on Moon

### Context

A new study based on data collected by the Chandrayaan-3 mission has suggested that water ice could be present at more locations beneath the Moon's surface at the poles than previously thought.

### Key Findings from Chandrayaan-3 Data

- **In-Situ Temperature Measurements by ChaSTE:**
  - The **ChaSTE (Chandra's Surface Thermophysical Experiment) probe** onboard the **Vikram lander** measured temperature at different depths (up to **10 cm**) beneath the lunar surface.
  - The lander **touched down at 69° South latitude**, near the Moon's **south pole** at **Shiv Shakti Point** on **August 23, 2023**.
- **Key Temperature Observations:**
  - The **peak surface temperature** at the **landing site (Sun-facing slope, 6° angle)** was **82°C** during the day and dropped to **-170°C** at night.
  - Just **one meter away**, on a **flat surface**, temperatures were significantly lower, **peaking at 60°C**.
  - This difference suggests that **even slight variations in slope impact surface temperatures**, which in turn affect where ice can form and remain stable.

### Importance of Water Ice on the Moon:

- **Vital Resource for Future Missions** → Ice can be used for **drinking water, oxygen production, and rocket fuel**.
  - Lunar ice can be used to produce rocket fuel by splitting the water molecules into hydrogen and oxygen through **electrolysis**, which can then be liquefied and used as propellant.
- **Understanding the Moon's History** → Studying ice deposits can reveal how **water accumulated and moved** over time, providing clues about the Moon's **geological past**.
- **Exploration & Settlement** → Finding easily accessible ice makes it easier for **humans to live and work on the Moon**.

### How Slopes Affect Ice Formation

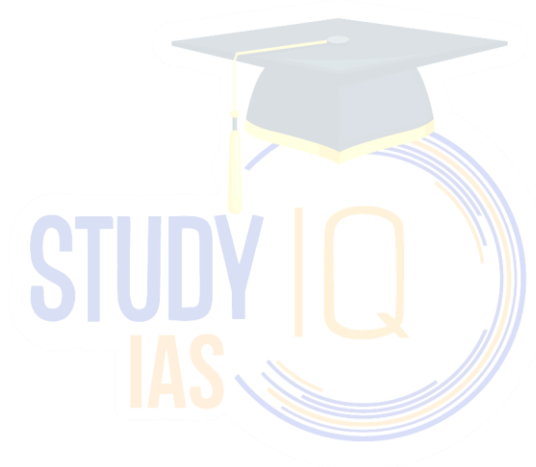
- Researchers developed a **temperature model** to understand how **the angle of a slope influences surface temperature**.
- **Findings from the Model:**
  - **Slopes facing the Sun** → Absorb more heat, making them **less likely to contain ice**.
  - **Slopes facing away from the Sun** (toward the lunar poles) → Remain **cooler**, allowing ice to **accumulate closer to the surface**.
  - A **slope with an angle greater than 14°** could maintain **temperatures low enough for ice to remain stable**.
- **Comparison with NASA's Artemis Mission:**
  - The temperature conditions found in this study **match the landing sites proposed for NASA's Artemis program**, which aims to explore the Moon's **south pole**.
  - This suggests that **ice may be accessible in more locations than previously thought**, making future lunar exploration **easier and more resource-efficient**.

**Why Liquid Water Cannot Exist on the Moon**

- The **Moon has no atmosphere**, so **liquid water cannot form**.
- Instead, ice **sublimates directly into vapor** when exposed to heat.
- This confirms that **the Moon likely never had habitable conditions in the past**.

**Source:**

- [The Hindu - water ice easier to find on moon than believed](#)



## Offshore Mining and the Protests in Kerala

### Context

The Kerala government and **fishing communities** are **strongly opposing** the Centre's offshore mining plan due to its **potential environmental and economic impacts**.

### What is Offshore Mining?

- Offshore mining refers to the extraction of minerals and resources from underwater areas such as the **continental shelf, exclusive economic zone (EEZ), and other maritime zones**. These resources include:
  - **Polymetallic nodules** (rich in manganese, nickel, cobalt and copper).
  - **Lime-mud & Construction-grade sand**.
- **Offshore Areas Mineral (Development and Regulation) Act, 2002 (OAMDR Act):**
  - Regulates **mining activities in India's maritime zones**.
  - Earlier, offshore excavation was controlled by **government bodies** like: **Geological Survey of India (GSI), Indian Bureau of Mining & Atomic Minerals Directorate**
  - **2023 Amendment:**
    - Allowed **private sector participation** through **competitive auction**.
    - Opened offshore mining for minerals like **polymetallic nodules, lime-mud and sand**.

### Legal Framework and Jurisdiction Issues

- **The OMDR Act defines "offshore areas"** as territorial waters, continental shelf, EEZ and other maritime zones.
- **Mining rights in offshore areas belong to the Union Government.**
- **Fishing rights up to 12 nautical miles** are under **state jurisdiction** (as per the **Seventh Schedule of the Indian Constitution**).
- **Union Mining Ministry's Stand:**
  - The **3 proposed blocks** off the **Kollam coast** are **beyond 12 nautical miles**, meaning they fall under **Central jurisdiction** and not under Kerala's control.

### Key Offshore Mining Blocks and Reserves

- **First tranche of e-auction (November 2023)** → 13 offshore blocks for mining:
  - 3 off the Kerala coast
  - 3 off Gujarat
  - 7 in Andaman & Nicobar Islands
- **Mining lease: 50 years**
- **Kerala Offshore Sand Deposits:**
  - **Study by GSI:** Kerala offshore has **745 million tonnes of construction-grade sand**.
  - **Kollam Coast Blocks:**
    - **300 million tonnes of sand** deposits found in 3 proposed blocks.
    - Located at a depth of **48 meters to 62 meters** in the sea.

### Concerns Raised by the Fishing Community & Environmentalists

- **Impact on Marine Ecosystem and Fisheries:**
  - **Kollam Parappu (Quilon Bank):** One of the **most productive fishing grounds** on the **south-west coast of India**. Mining here could lead to a **decline in marine fish catch**.
- **Effects of seabed mining:**
  - **Clouding of water** → **Reduces light penetration**, shrinking the **euphotic zone** (area with enough light for photosynthesis).

- **Sediment plumes** → Can travel **thousands of square kilometers**, affecting marine life.
- **Release of toxic substances** → Could poison fish and disrupt aquatic ecosystems.
- **Impact on Fishermen's Livelihoods:**
  - **Fishing is the main livelihood** for **11 lakh fishermen** in **222 fishing villages** across Kerala.
  - **Mining operations can** reduce fish stocks & Introduce **large mining vessels**, which could **disrupt fishing activities and pose safety risks**.
- **Economic Concerns:** All mining royalties will go to the **Central government**, leaving **no direct benefit** for Kerala.

Source:

- [Indian Express- Offshore Mining](#)



## Trachoma Disease

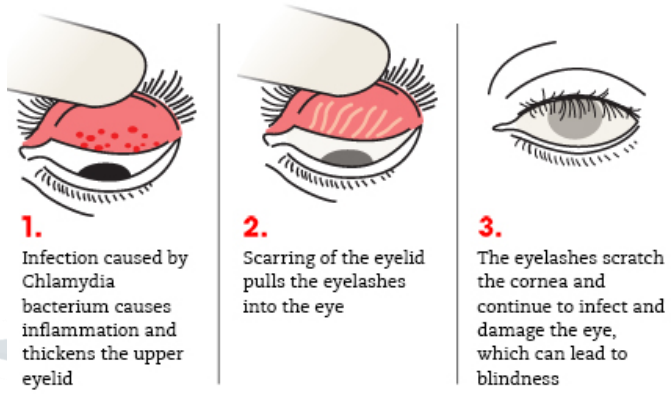
### Context

The **World Health Organization (WHO)** has officially declared **Trachoma eliminated** as a public health problem in **India**. India became the **third country in the WHO Southeast Asia Region** to achieve this milestone. (After Nepal & Myanmar).

### About Trachoma Disease

- It is an infectious eye disease caused by the **bacterium Chlamydia trachomatis**.
- It is the leading infectious cause of blindness worldwide and primarily affects people in impoverished regions with limited access to clean water and sanitation.
- WHO has termed Trachoma as a **Neglected tropical disease (NTD)**.
- **Transmission**
  - Through direct contact with eye or nose secretions from infected individuals.
  - It can also spread via contaminated objects (like towels) and through flies that carry the bacteria.
- **At-Risk Populations:**
  - Preschool-age children are the main reservoir for the infection, but anyone in crowded living conditions without proper hygiene can be affected.
  - **Blindness from trachoma is irreversible.**

### Stages of trachoma



### Prevention and Treatment

- **Presently No trachoma vaccine is available**, but prevention is possible.
- The World Health Organization (WHO) recommends the **SAFE strategy**, which includes:
  - **Surgery:** To correct trichiasis (inward-turning eyelashes).
  - **Antibiotics:** Mass treatment with azithromycin to clear infections.
  - **Facial Cleanliness:** Promoting hygiene to reduce transmission.
  - **Environmental Improvements:** Enhancing access to clean water and sanitation facilities.

### Targets set by India for elimination of various disease:

- Malaria - 2030
- Tuberculosis - 2025
- Sickle Cell Anaemia - 2047

### Source:

- [PIB - Trachoma](#)



## Vigyan Dhara Scheme

### Context

The **Government of India** has significantly increased the allocation for the **Vigyan Dhara** scheme from **₹330.75 crore (2024-25)** to **₹1425.00 crore (2025-26)**.

### About Vigyan Dhara Scheme

- It is a **central sector** scheme unifying three umbrella schemes of the **Department of Science and Technology (DST)**.
- It has **3 major components**:
  - **Science and Technology (S&T) Institutional and Human Capacity Building**
    - Establishment of **advanced research laboratories** in academic institutions.
    - Faculty development and student research support.
    - Promotion of **international scientific collaborations**.
  - **Research and Development**:
    - **Encouragement of basic research** with access to **international mega facilities**.
    - Support for **translational research** in key areas like **sustainable energy and water**.
    - Strengthening India's **Full-Time Equivalent (FTE) researcher count** to enhance R&D output.
  - **Innovation, Technology Development and Deployment**.
    - **Support for startups and entrepreneurs** in science and technology.
    - Facilitation of **technology transfer and commercialization**.
    - Development of **indigenous technologies** to reduce reliance on imports.
    - Promotion of innovation **from schools to higher education and industries**.
- **Other Components**:
  - **Promoting Gender Parity in Science & Technology**:
    - Special programs to **increase women's participation in science and technology (S&T)**.
    - Ensuring **gender equality in Science, Technology, and Innovation (STI)** through targeted interventions.
- The **R&D component** of the scheme will be aligned in line with the **Anusandhan National Research Foundation (ANRF)**.

### Source:

- [PIB - Vigyan Dhara](#)

## India's Exit from the High Burden to High Impact (HBHI) Group for Malaria

### Context

India has made significant progress in malaria control, enabling its exit from the HBHI category.

### Key Strategies for Malaria Reduction

- **Disease Management:**
  - **Early Case Detection:**
    - Active, passive and sentinel surveillance for rapid identification of malaria cases.
    - Effective treatment and strengthened referral services.
  - **Epidemic Preparedness & Rapid Response:** Ensuring quick interventions to control outbreaks.
- **Integrated Vector Management:**
  - **Indoor Residual Spraying (IRS):** Used in selected high-risk areas.
  - **Long-Lasting Insecticidal Nets (LLINs):** Distributed in **high malaria-endemic areas**.
  - **Larval Control Measures:**
    - **Use of larvivorous fish** to control mosquito larvae.
    - **Anti-larval interventions** using bio-larvicides.
    - **Environmental engineering** to **prevent mosquito breeding** in urban areas.
- **Supportive Interventions:**
  - **Behavior Change Communication (BCC):** Educating communities about malaria prevention.
  - **Inter-Sectoral Convergence:** Coordination between different government departments for effective malaria control.
  - **Human Resource Development:** Training and **capacity building** of healthcare professionals to improve malaria management

### Source:


- [PIB - Malaria](#)

## News in Shorts

### Grameen Credit Score (GCS)

- **GCS is a financial framework** to assess and improve the creditworthiness of **Self-Help Groups (SHGs) and rural individuals**.
- It was introduced by **Union Finance Minister Nirmala Sitharaman** in the **Union Budget 2025-26**.

#### Key Benefits of the Grameen Credit Score

- **Enhanced Financial Access:**
  - Helps **rural women entrepreneurs access loans** to expand their businesses.
  - **Promotes financial literacy**, introducing rural citizens to concepts such as: Creditworthiness, Loan EMIs and repayment, Credit scores and credit cards.
- **Customized Financial Products:**
  - **New credit cards** designed for **micro-enterprises** with a **limit of up to ₹5 lakh**.
- **Improved Credit Assessment:**
  - **Digital framework** for **assessing creditworthiness** of SHG members.
  - Helps **bridge gaps in the current credit bureau system**, which often **overlooks SHG members**.
  - **Allows rural women to track:** Their credit score & Loan limits and repayment options.
- **Economic Stability and Growth:**
  - **Increased access to loans**  **more financial independence** for SHG women.
  - Encourages **entrepreneurship** in rural India, leading to **sustainable economic growth**.

Source:

- [PIB - GCS](#), [Mint](#)

### Varuna - 2025

- It is an **annual Bilateral Naval Exercise** between **India and France**.
- Varuna started in **2001**, this one is the **23rd** edition.
- The exercise will witness the participation of **major naval assets** from both countries, including: **INS Vikrant** (India), **Charles de Gaulle** (France), **Rafale-M & MiG-29K**.
- **Other Bilateral Exercise:** Garuda (Air Force), Shakti (Army).

Source:

- [PIB - Varuna 2025](#)

### Caracal

- Recently Rajasthan's Forest Minister shared the first photographic record of a caracal in **Mukundra Hills Tiger Reserve (MHTR)**.

#### About Caracals

- Caracals are **medium-sized wild cats** native to **Africa, the Middle East, Central Asia, and South Asia**.
- They are primarily **nocturnal** and known for their **distinct, pointed black ears**.
- Its name is derived from the **Turkish word 'karakulak'**, meaning **black ears**.
- Caracals are mentioned in medieval Indian texts like: **Khamsa-e-Nizami, Shahnameh & Tutinama**.
  - They were used by Indian royalty for **hunting birds**.

- **Conservation Status:**
  - **WPA** - Schedule I.
  - **IUCN** - Least Concern.
  - It is listed in **Critically Endangered** category by the **National Board for Wildlife in India**.
- **Sharp Population Decline:**
  - Historically caracals were found in **13 Indian states**.
  - By **2000** → Population reduced by **50%**.
  - From **2001 to 2020** → Further **95% decline**.
  - Now restricted to an area of **16,709 sq km** (less than **5%** of its historical range).
  - Currently, only **50 caracals** remain in India, found in only 2 states- **Rajasthan and Gujarat**.



#### Threats to Caracals

- **Loss of habitat** due to urbanization and infrastructure development.
- **Reduced prey availability** (small ungulates, rodents, birds).
- **Encroachment into natural habitats**, particularly the **Chambal ravines**, which are classified as **wastelands** instead of **ecologically significant areas**.
- **Illegal wildlife trade**: Caracals have been **captured and sold as exotic pets**.

#### Source:

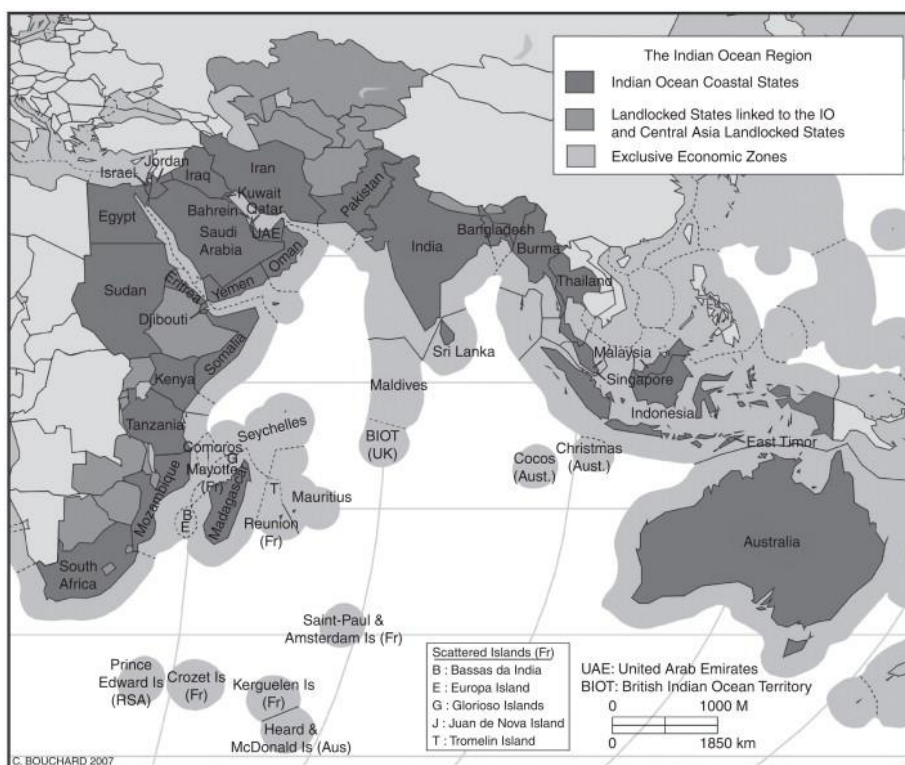
- [Indian Express - Caracal](#)

## Editorial Summary

### India must act as unifier in the IOR

#### Context

India must act as a unifier in the Indian Ocean Region (IOR) to ensure maritime security, counter China's influence, safeguard trade routes, and promote regional stability through strategic leadership.



#### Why India Must Act as a Unifier in the IOR

- **Trade Importance:** Approximately **70% of India's oil imports** are channelled through the Indian Ocean region, utilising various ports.
  - The vast majority of India's international trade, around 90% by volume, heavily relies on maritime routes.
- **Geostrategic Importance:** India's central location in the IOR provides a strategic advantage to influence regional security and trade.
- **Counterbalance to China's Expanding Presence:** China's growing influence through projects like the **String of Pearls** and **military bases** in the IOR threatens regional stability.
  - India must lead regional cooperation to counter China's strategic dominance.
- **Ensuring Maritime Security:** Piracy, smuggling, and maritime terrorism pose direct threats to India's trade and security (e.g., **Golden Crescent and the Golden Triangle**).
  - A unified regional framework can strengthen maritime surveillance and collective response mechanisms.

### What is the Golden Crescent?



- The Golden Crescent comprises Afghanistan, Iran, and Pakistan
- The region is infamous for organised crime activities like the flow of illegal drugs, which aids other illicit activities.
- India's proximity to the golden crescent has made it vulnerable to the trafficking of drugs and narcotics.
- **Comprises Of 2 Routes:**
  - **Northern Route:** Opium and heroin are trafficked to the Russian Federation by way of Tajikistan and Kyrgyzstan.
  - **Southern Route:** Heroin travels from Afghanistan through Pakistan and Iran by sea to South Asia, Africa and Oceania region.

### Golden Triangle



- The area where the borders of **Thailand, Laos, and Myanmar** meet at the confluence of the **Ruak and Mekong rivers**.

### Facts:

The United Nations Office on Drugs and Crime (UNODC) estimates that 80 percent of the world's opium and heroin supplies are trafficked from Afghanistan.  
Myanmar is the world's second-largest illicit supplier of morphine and heroin.

- **Leveraging SAGAR for Regional Leadership:** India's SAGAR (Security and Growth for All in the Region) doctrine positions India as a security provider and development partner.
  - Leading initiatives on maritime security, trade, and disaster relief can enhance India's influence and credibility.
- **Economic and Energy Security:** IOR nations are key trade and energy partners for India, especially in oil and gas imports.
  - Ensuring secure and stable sea lanes is critical for India's economic growth and energy security.

- **Diplomatic and Strategic Autonomy:** Acting as a unifier will position India as a reliable and independent power in the region.
  - A balanced and cooperative approach will allow India to engage with both regional and extra-regional powers without compromising its strategic interest.

#### How India Can Act as a Unifier in the IOR

- **Strengthening Institutional Frameworks:** Revitalize regional groupings like IORA and BIMSTEC to improve dialogue and cooperation.
  - Expand the scope and influence of the **Indian Ocean Naval Symposium (IONS)** for greater security coordination.
- **Enhancing Maritime Security and Surveillance:** Develop a stronger **Maritime Domain Awareness (MDA)** network with real-time intelligence sharing.
  - Increase joint naval exercises and patrols with IOR nations to improve maritime security.
- **Leading Disaster Response and Humanitarian Assistance:** Establish a dedicated **HADR (Humanitarian Assistance and Disaster Relief)** fund and response team.
  - Deploy **hospital ships** and amphibious heavy-lift capability for rapid response to natural disasters.
- **Economic and Infrastructure Cooperation:** Invest in port development and maritime connectivity projects in IOR countries.
  - Leverage platforms like **SAGAR (Security and Growth for All in the Region)** to foster inclusive development.
- **Soft Power and Diplomatic Engagement:** Use India's historical and cultural ties to foster goodwill and unity in the IOR.
  - Promote educational, technological, and cultural exchanges with IOR nations.
- **Strategic Autonomy and Balanced Engagement:** Maintain strategic independence while balancing partnerships with regional and extra-regional powers.
  - Position India as a credible mediator and stabilizer in regional disputes.

Source: [Indian Express: The Ocean Front](#)

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## Detailed Coverage

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### What factors influence women's political participation?

#### Context

Although India has produced several influential women leaders, overall political participation among women remains low.

#### Importance of Women's Political Participation

- **Advancement of Gender Equality:** Women's participation in politics is fundamental to achieving gender equality and genuine democracy.
  - It facilitates women's direct engagement in public decision-making and ensures better accountability to women.
- **Improved Policy Outcomes:** Women in political positions often prioritize issues such as healthcare, education, and social welfare.
  - Their presence leads to more comprehensive and balanced policy decisions that address diverse societal needs.
- **Enhanced Democratic Processes:** Increased women's representation strengthens democratic values by ensuring that political institutions reflect the diversity of the populations they serve.
  - This inclusivity enhances the legitimacy of democratic processes and fosters greater public trust.
- **Economic Growth and Development:** A higher rate of women political representation is closely linked to legal equality and economic opportunity.
  - This correlation suggests that women's political participation can contribute to economic growth and development.
- **Role Modeling and Inspiration:** Women in leadership positions serve as role models, inspiring other women and girls to pursue careers in politics and leadership, thereby gradually reducing gender disparities in various sectors.

#### Challenges Associated with Women's Participation in Politics

- **Time Use and Care Work:** Women spend up to **four times more** time on unpaid care work than men, limiting their ability to engage in politics.
  - Social norms favor women candidates with traditional household profiles (e.g., married with children), creating additional barriers.
- **Leadership Seen as a Male Domain:** Patriarchal norms and rigid gender roles exclude women from formal decision-making spaces.
  - Traditional contexts reinforce the idea that leadership is inherently masculine.
- **Backlash, Harassment, and Violence:** Smear campaigns, blackmail, and media bias undermine women politicians' credibility and influence.
- **Institutional Barriers and Political Structures:** Political party structures often favor male candidates for leadership positions.
  - Lack of internal party support and absence of gender quotas reduce opportunities for women.
  - Electoral financing and political networking remain male-dominated, making it harder for women to access resources.
- **Societal and Cultural Norms:** Deep-rooted patriarchal values discourage women from assuming leadership roles.
  - Family and societal expectations often pressure women to prioritize domestic responsibilities over public life.



- Stereotypes about women's "emotional nature" are used to undermine their political competence.
- **Legal and Policy Gaps:** Lack of strong legal frameworks to protect women from political violence and discrimination.
  - Inadequate implementation of gender quotas and reservation policies.
  - Weak political will to ensure equal representation and accountability.

#### Facts

- India's women's representation in the Parliament **remains well below the global average of 25%**.
  - Women's representation has increased from 5-10% until 2004 to **13.6% in the current 18th Lok Sabha**.
  - Women constitute **13% of the members in the Rajya Sabha**.
- India ranks **143 out of 185 countries** for women's representation in the lower house of Parliament.
- **Women's Representation in State Legislatures:** The national average of women legislators in State Assemblies stands at only 9%.
  - No state has more than 20% women MLAs.
  - Chhattisgarh has the highest representation among states, with 18% women MLAs.
- Globally, only 25% of national parliamentarians are women, and only 22 countries have women in the highest positions of political power.

#### How to Strengthen the Political Participation of Women

- **Fund Incentivized Party Quotas:** Provide **financial incentives** to political parties that nominate and elect women candidates.
  - **Example:** In **Georgia**, political parties receive **30% more funding** if at least **30% of the top 10 names** on their party list are women.
  - Reward parties that successfully elect women to encourage long-term change.
- **Create an Enabling Environment for Voluntary Party Quotas:** Encourage political parties to adopt internal gender quotas voluntarily.
  - **Example:** In **Kazakhstan**, the Central Election Commission and the National Commission for **Women's Affairs** endorsed recommendations for gender quotas in party charters.
  - Promote government support through public statements and official guidelines.
- **Enact Legislated Candidate Quotas and Reserved Seats**
  - Introduce **legally mandated quotas** or reserved seats to ensure women's representation in political institutions.
  - **Example:** Countries with quotas (e.g., Afghanistan, Nepal, Indonesia) have seen increased women's representation in national and local governance.
- **Support Women's Leadership Development Programs:** Implement leadership training, mentorship, and skills development programs.
  - Focus on **public speaking, decision-making, campaigning, and self-assertion**.
  - **Example:** Out of 41 countries in the Asia-Pacific, **20 countries** reported offering such programs, including targeting **minority and young women**.
  - Best practices include **local ownership, collective approaches, and international partnerships**.
- **Create a Gender-Responsive Policy Environment:** Monitor and revise policies to prevent gender-based discrimination and exclusion.
  - **Example:** **South Korea** created a platform for citizens to report **gender-discriminatory media** content to tackle bias.
- **Ensure Financial and Structural Support:** Provide financial assistance, campaign funding, and logistical support for women candidates.

- Establish support systems like **childcare, maternity and paternity leave**, and **networking opportunities**.
- **Example:** In Nepal, after introducing quotas, women faced financial and management challenges, highlighting the need for ongoing training and support.

Source: [The Hindu: What factors influence women's political participation?](#)

