



Daily Current Affairs



To The Point by Dhananjay Gautam

Table Of Content 29 March 2025

1. **Public Accounts Committee's Recommendations for GST Regime**
2. **India's Push into the Deep Sea**
3. **Supreme Court Ruling**
4. **Gaia Mission**
5. **Debrigarh Wildlife Sanctuary**
6. **The Indian Coastal Crisis**



Subscribe to our

You Tube Freedom UPSC with **Dhananjay Gautam**

1

Public Accounts Committee's Recommendations for GST Regime: Simplifying India's Tax System

Context: The **Goods and Services Tax (GST)**, a landmark reform in India's tax structure, was officially introduced on **1st July 2017** by **Prime Minister Narendra Modi**. It replaced numerous indirect taxes, such as VAT and excise duties, with a unified **destination-based consumption tax**. The aim of GST is to reduce the cascading effect of taxes, creating a **unified national market** that encourages **economic growth** and **trade**.



First proposed during **Atal Bihari Vajpayee's** tenure, the concept of GST gained momentum with the introduction of the **Constitution (122nd Amendment) Bill** in **December 2014**. It was subsequently passed in 2015 and ratified in 2016 as the **101st Constitutional Amendment**.

The Vision of GST: Key Objectives

- **Simplification of India's Tax System:** GST integrates multiple **Central and State taxes**, aiming to reduce **tax-related complexities**.
- **Economic Growth and Broader Tax Base:** GST is designed to stimulate economic activity, enhance **tax compliance**, and increase the overall **tax base**.
- **Unified National Market:** One of its core goals is to create a seamless market by eliminating state-specific barriers, allowing businesses to operate with greater efficiency across India.

However, despite its promising goals, the **GST regime** has faced various challenges and criticism, particularly regarding its complex compliance requirements.

Public Accounts Committee's Latest Recommendations for GST Reform

In its **19th Report**, the **Public Accounts Committee (PAC)** has highlighted the need for significant reforms to make the GST regime **more efficient** and **business-friendly**. The PAC's recommendations focus on easing compliance and addressing operational challenges that continue to trouble taxpayers.

1. Streamlining Compliance Procedures:

The PAC has urged the **Finance Ministry** to simplify the current **GST framework**. Key proposals include:

- **Consolidation of Forms:** Reducing the number of forms required for compliance to make the filing process more straightforward.
- **Tiered Compliance System for MSMEs:** Introducing a **tiered approach** to GST compliance, where smaller businesses face reduced filing frequency and simplified documentation requirements.
- **Reducing Compliance Costs for Small Businesses:** By simplifying processes, especially for **MSMEs**, the burden of compliance can be reduced significantly.

2. Addressing the Biometric-Based Aadhaar Authentication:

The **Aadhaar authentication system** has been a central part of the **GST compliance process**, but the PAC has raised concerns over its **complexity**. The **biometric verification process** has created issues for some taxpayers, especially in remote areas, potentially undermining the **"One Nation, One Tax"** vision of GST.

3. Reforming the GST Portal for Better User Experience:

The PAC has recommended that the **GST portal** be made more **user-friendly**. This includes:

- **Clearer Guidance for Taxpayers:** Providing better instructions during the filing process to avoid errors.



- **Enhanced Portal Navigation:** Streamlining the portal to ensure taxpayers can navigate it easily, reducing errors and frustration.

4. Simplification of Criminal Penalties:

The PAC has stressed the need to reconsider the **harsh criminal penalties** for unintentional errors in GST compliance. While the intention is to encourage tax compliance, the committee suggests that **honest taxpayers** should not face severe penalties for minor mistakes.

5. Leveraging Data Analytics and AI for Accurate Revenue Projections:

The PAC recommended adopting **data analytics** and **AI tools** to more accurately project **GST revenue**. This can help address the decline in the share of **indirect taxes** in total tax revenue and improve financial forecasting.

6. Efficient Refund System:

One of the most pressing issues facing the GST regime is the **inefficient refund process**. The PAC has called for:

- **Clear Timelines for Refund Processing:** Establishing fixed timelines for refund disbursement to ensure liquidity for businesses.
- **Grievance Redressal Mechanism:** A dedicated system for resolving refund-related issues promptly.

7. Automation for MSME Compliance:

To further ease the burden on **Micro, Small, and Medium Enterprises (MSMEs)**, the PAC has recommended the **automation** of the **return filing** and **refund processing** systems. This would reduce manual intervention and ensure smoother compliance with reduced frequency.

Additional Insights: The Future of GST

While the PAC's recommendations aim to streamline the current system, the journey toward a fully functional **GST regime** is ongoing. Despite initial hurdles, GST has contributed significantly to the Indian economy:

- **Increased Tax Collection:** The move to a unified tax system has led to improved **tax compliance** and higher **revenue collection**.
- **Boost to Inter-State Trade:** By removing inter-state barriers, GST has facilitated smoother trade between states, benefiting **supply chains**.
- **Technological Integration:** The use of **technology**, such as AI and machine learning, will play a pivotal role in optimizing compliance processes and improving the accuracy of tax collection and revenue projection.

However, as businesses continue to face challenges related to **GST compliance**, the PAC's recommendations offer a potential pathway for improvement—one that can create a more **business-friendly environment**, reduce friction, and promote greater **economic efficiency**.

Conclusion:

The PAC's proposals, if implemented effectively, could transform the **GST framework** into a more streamlined, efficient, and user-friendly system. As India continues to evolve its tax policies, these reforms will play a crucial role in shaping the future of the **country's taxation system**, making it more conducive to economic growth and business development.

2 India's Push into the Deep Sea: A Strategic and Economic Imperative

Context: India is making significant strides toward exploring the vast, untapped resources of the deep ocean. With projects like **Matsya-6000**, India aims to enhance its technological prowess and secure economic and strategic advantages in the underwater domain.



Deep Sea Technology Latest News:

Recently, India completed **wet testing** of its **Matsya-6000** submersible, a remarkable achievement under the **Samudrayaan Project**. Developed by the **National Institute of Ocean Technology (NIOT)**, this deep-sea submersible can dive **up to 6 km below the surface**, aiming to explore underwater mineral resources off the Indian coast. This project is a crucial part of India's **Deep Ocean Mission**, aiming to place India among the select nations with **human-rated submersibles** operating at such extreme depths.

Background:

India's push into the deep sea is not just about scientific exploration—it's a **multidimensional effort** involving **economic strength, digital infrastructure, national security, and global competition**. According to **Vice Admiral Biswajit Dasgupta (Retd)**, developing deep-sea capabilities is essential for **strategic parity** with other nations, especially **China**, which has made considerable progress in this field.

The foundation of India's current efforts can be traced to the **Deep Ocean Mission**, launched in **2018**, aimed at exploring the ocean's vast resources and building a **robust technological framework** to access them.

Importance of Deep Sea Matters for India:

The deep sea holds enormous potential for India's **economic growth, technological development, and national security**. Some key aspects include:

1. Mineral and Energy Resources:

- The seabed within India's **Exclusive Economic Zone (EEZ)**—which spans **200 nautical miles (about 370 km) from the coastline**—holds valuable resources like **polymetallic nodules, gas hydrates, oil, and other rare-earth elements**.
- These resources are critical for **India's growing industrial and energy needs**, particularly in sectors like **electronics manufacturing, renewable energy, and defense**.

2. Food and Nutraceuticals:

- Deep-sea fisheries and **marine bio-resources** offer substantial **economic and nutritional benefits**.
- Developing efficient harvesting methods could bolster **India's food security**.

3. Oceanographic and Climate Data:

- Deep ocean exploration contributes to **climate modelling, weather forecasting, and environmental research**.
- Such data is crucial for **predicting and mitigating climate change impacts**.

4. Digital Economy Infrastructure:

- Over **95% of global internet traffic** is transmitted through **undersea fiber-optic cables**.
- Ensuring the **security, maintenance, and expansion** of these cables, especially with Indian participation, is crucial for the nation's **digital economy**.

5. National Security:

Download Our Application



Freedom UPSC with **Dhananjay Gautam**



- The deep sea is becoming a **space of strategic competition**.
- **China** has already unveiled a **cable-cutting device** capable of damaging undersea infrastructure, highlighting the need for **India to enhance its domain awareness, monitoring systems, and countermeasures**.

Challenges of Deep Sea Technology:

While the potential benefits are immense, developing deep-sea capabilities poses several challenges:

1. Communication Underwater:

- Communication in deep water is hindered by factors like **temperature, pressure, and salinity**.
- Developing **Very Low Frequency (VLF)** and **Extremely Low Frequency (ELF)** sound systems is essential but costly.

2. Pressure Resistance:

- At depths of **6 km**, pressure exceeds **380 atmospheres**—equivalent to the weight of **several hundred elephants pressing down on a single square meter**.
- Designing **pressure-resistant materials and submersibles** is a highly complex engineering challenge.

3. Cost and Expertise:

- Building deep-sea technologies demands **massive financial investments, specialized research, and a skilled workforce**.
- Countries like **China, the US, Japan, and France** have already made substantial progress.

4. Safety Concerns: The OceanGate Titan submersible tragedy in 2023 highlighted the risks of insufficient safety measures in deep-sea exploration.

What India Needs to Do Next:

India's **Deep Ocean Mission** is a promising start, but more needs to be done to achieve comprehensive deep-sea capabilities. Key recommendations include:

1. **Create a Dedicated Ministry:** Upgrade the **Department of Ocean Development** to a **full-fledged Ministry of Ocean Affairs**, with a **Cabinet-rank Minister** to drive coordination and accountability.
2. **Boost Funding and Speed:** Approve projects in **mission-mode** with **clear deadlines, adequate budgets, and transparent review mechanisms**.
3. **Establish Centers of Excellence:**
 - Invest in **academic institutions and research labs** focused on deep ocean science and technology.
 - Encourage **innovation and skill development** to build a world-class workforce.
4. **Support Industrial Partnerships:** Incentivize **private companies** to participate in **deep-sea mining, cable-laying, salvage operations, and submersible development**.
5. **Create a 10-Year Roadmap:**
 - Formulate a comprehensive plan with defined milestones across **technology, governance, infrastructure, and security**.
 - Ensure regular **monitoring and evaluation** to stay on track.

Conclusion: India's ambition to emerge as a **global economic and strategic power** cannot ignore the depths of the ocean. From **minerals and food resources** to **digital infrastructure and security**, the **deep sea holds the key to the future**. With **Matsya-6000** as a starting point, India must accelerate efforts to build a **robust, well-funded, and forward-looking deep ocean capability**. Achieving this will not only boost India's **scientific and economic stature** but also ensure **strategic parity with global powers**.

3

Supreme Court Ruling: Legal Difference Between Preparing for Rape and Attempting It

Context: The Supreme Court has intervened in a controversial **Allahabad High Court ruling** that downgraded charges against three accused from **attempted rape to mere preparation**. The case has sparked renewed discussions about the **legal distinction between “preparation” and “attempt”** in criminal law.



Legal Difference between Preparation and Attempt: Latest News

The **Supreme Court** has stayed an **Allahabad High Court ruling** that reduced charges against three accused from **attempted rape to mere preparation**, calling the judgment **insensitive and legally flawed**. The High Court had **removed attempted rape charges** and instead directed trial under **lesser offences**, including:

- **IPC Section 354B:** Using criminal force against a woman with intent to disrobe.
- **Sections 9/10 of POCSO Act, 2012:** Aggravated sexual assault.

The case highlights the critical legal distinction between:

- **Preparation** (generally not punishable)
- **Attempt** (criminally punishable)

Background of the Case:

The case originated from an appeal against a **POCSO court order** that had summoned the accused for trial under:

- **Section 376 IPC (rape)**
- **Section 18 of the POCSO Act (punishment for attempt)**

On **March 17, 2025**, the **Allahabad High Court** downgraded the charges, terming the act as mere **“preparation.”**

Distinction Between ‘Preparation’ and ‘Attempt’:

Key Legal Distinction:

- **Preparation:** Planning or arranging the means to commit an offence.
- **Attempt:** The stage where the accused takes **concrete steps towards committing the crime**.

Legal Criteria for ‘Attempt’ (Abhaynand Mishra v. State of Bihar, 1961)

To establish an attempt, the prosecution must prove:

1. **Intention to commit the offence.**
2. **Preparation to commit the offence.**
3. **Concrete steps taken towards committing the offence.**
4. **Proximity requirement:** The act must be close enough to the intended crime to be considered an attempt.

Where Attempt Begins (State of Maharashtra v. Mohd. Yakub, 1980):

- **“Attempt begins where preparation ends.”**



- Without an **overt act** leading to the crime, the accused **cannot be punished** for mere preparation.

Allahabad HC Downgrades Attempted Rape Charges:

The **Allahabad High Court** ruled that the prosecution failed to prove the offence had progressed beyond mere **preparation**.

HC's Reasoning:

- The court relied on the **1836 English case Rex v. James Lloyd**, which required proof of the accused's **intent to gratify their passions despite resistance**.
- It noted **no claim of penetrative assault**, a key requirement for proving rape under the **IPC**.
- Therefore, the HC reduced the charges to **IPC Section 354B** (assault with intent to disrobe a woman).

Reduced Charges and Punishment:

- Section 354B IPC**: Punishment of **1 to 5 years in prison**.
- This is significantly lesser than the punishment under **Section 376 IPC** or **Section 18 of the POCSO Act**.

Historical Precedents in Attempted Rape Cases:

The **Lloyd ruling (1836)** continues to influence Indian courts in deciding whether an accused has attempted to commit rape.

Recent Applications of the Lloyd Ruling:

- May 2024**: The **Rajasthan High Court** applied the Lloyd test to reduce an attempted rape conviction to **Section 354 IPC** (outraging a woman's modesty).
- 2004 (Aman Kumar & Anr v. State of Haryana)**: The **Supreme Court** lowered an attempted rape conviction to a lesser offence using similar logic.

SC's Criticism and Potential Legal Reassessment:

On **March 25, 2025**, the **Supreme Court** took **suo motu cognizance** of the **Allahabad HC's ruling**, issuing a **stay order** and condemning the HC's reasoning as **"insensitive and legally flawed."**

SC's Remarks:

- The SC criticized the HC for **failing to appreciate the gravity of the offence**.
- It noted that the observations were **not only legally incorrect but also lacking in sensitivity toward the victim**.

Possible Legal Reassessment:

The Supreme Court's intervention presents an opportunity to:

- Redefine the legal standard for attempted rape**.
- Provide clear guidelines** for distinguishing between preparation and attempt.

4 Gaia Mission: Mapping the Milky Way with Unprecedented Precision

Context: The **Gaia Mission**, launched by the **European Space Agency (ESA)** in 2013, has concluded its primary operations with groundbreaking contributions to astronomy.

Gaia Mission Latest News:

On **March 27, 2025**, the **ESA confirmed** that the **Gaia space observatory** was “**passivated**” (drained of energy) and placed into a **safe “retirement orbit”** around the **Sun**.



About the Gaia Mission:

- **Full Name:** Originally named **Global Astrometric Interferometer for Astrophysics (GAIA)**, later simplified to **Gaia**.
- **Launch Date:** 2013 by the **European Space Agency (ESA)**.
- **Objective:** To create the most **precise 3D map of the Milky Way** using **astrometry** (measuring positions and movements of celestial bodies).
- **Position:** Placed at **Lagrange Point 2 (L2)**, approximately **1.5 million km from Earth** (behind Earth when viewed from the Sun), ensuring an **unobstructed cosmic view**.

Scientific Instruments:

1. Twin Telescopes:

- Captured light from **different directions** to enhance precision.

2. Digital Camera:

- Nearly **1 billion pixels**, the largest ever flown in space.

3. Three Key Instruments:

- **Astrometer:** Measures precise **locations of celestial bodies**.
- **Photometer:** Determines the **brightness and temperature of stars**.
- **Spectrometer:** Identifies **chemical composition and motion** of objects.

Key Discoveries of Gaia:

1. Mapping the Milky Way in 3D:

Gaia provided the **first precise 3D map** of the Milky Way, revealing its complex structure:

- The **central bar and spiral arms**.
- A **warped, wobbly disc**, likely caused by past **collisions with smaller galaxies**.
- **Ripples** in the galaxy from these collisions may have contributed to the formation of **new stars, including the Sun**.

2. Discovery of New Black Holes:

- Discovered a **new class of black holes** that are **invisible**, detectable only by their **gravitational effects**.
- Identified one of the **closest black holes to Earth**.

3. Tracking Asteroids and Space Threats:

- Identified over **150,000 asteroids**, mapping their **orbits and potential threats** to Earth.

The **Gaia Mission** has redefined our understanding of the **Milky Way**, offering insights into the galaxy's structure, stellar evolution, and cosmic hazards.

5

Debrigarh Wildlife Sanctuary: A Hidden Gem of Odisha

Context: Debrigarh Wildlife Sanctuary, situated in the **Bargarh district of Odisha** near the **Hirakud Dam (Mahanadi River)**, is a vibrant ecosystem known for its rich biodiversity and historical significance. It was declared a **wildlife sanctuary in 1985** and has since become a vital habitat for various flora and fauna.

Historical Significance:

The sanctuary holds a special place in India's freedom struggle. **Veer Surendra Sai**, a noted freedom fighter, established his base at **Barapathara**, located within the sanctuary, during his rebellion against the British.

Ecological Features:

Vegetation

The sanctuary predominantly comprises **dry deciduous mixed forests**, with key tree species including:

- Sal
- Asana
- Bija
- Aanla
- Dhaura

Flora and Fauna:

The sanctuary harbors a wide range of wildlife, including:

- **Carnivores:** Tiger, Leopard, Hyena
- **Herbivores:** Spotted Deer, Antelopes, Sambar, Gaur, Nilgai, Bison
- **Others:** Sloth Bear, Langur Monkeys

Debrigarh Wildlife Sanctuary's Unique Initiative: Indian Bison Fest

In a **first-of-its-kind initiative**, the sanctuary recently hosted the '**Indian Bison Fest**' aimed at promoting awareness about the conservation of the **Indian Bison (Gaur)** and highlighting its ecological significance.

The Majestic Indian Bison (Gaur):

Overview:

The **Indian Bison (Gaur)** is one of the **largest extant bovines** and among the most impressive wild cattle species in the world, with a **shoulder height reaching up to 220 cm**.

Habitat:

- Found in **forested hills** and **grassy areas** of **South and Southeast Asia**.
- **Western Ghats** in Southern India is one of the most extensive strongholds, particularly in the **Wayanad – Nagarhole – Mudumalai – Bandipur complex**.

Distribution:

- Global Population: Approximately **13,000 to 30,000** individuals.
- India hosts nearly **85% of the population**, with smaller populations in **Burma** and **Thailand**.

Download Our Application



Freedom UPSC with Dhananjay Gautam

Page No

9



**Conservation Status:**

- **IUCN Red List: Vulnerable**
- **CITES: Appendix I** (Prohibits international trade)
- **The Wildlife Protection Act, 1972: Schedule I** (Highest protection under Indian law)

State Recognition:

The **Gaur** is recognized as the **State Animal of Goa and Bihar**.

Additional Facts & Knowledge:

- The **Gaur** is known for its **immense strength and muscular build**. Adult males can weigh up to **1,500 kg**.
- Unlike other wild cattle, **Gaurs are primarily diurnal**, but they may become **nocturnal** in areas with frequent human disturbance.
- **Conservation efforts** include habitat protection, anti-poaching measures, and awareness programs like the **Indian Bison Fest**.
- They have a **complex social structure**, usually found in **small herds** led by a **dominant female**.

Debrigarh Wildlife Sanctuary is not only a **treasure trove of biodiversity** but also a symbol of **India's natural heritage and historical legacy**. Conservation initiatives like the **Indian Bison Fest** play a crucial role in safeguarding these remarkable creatures and their habitat for future generations.

freedom UPSC
TOGETHER WE SCALE HEIGHTS

6 The Indian Coastal Crisis

Context: India's coastal regions are grappling with a **dual crisis**:

1. **Illegal Light Fishing:** Depleting marine life and affecting traditional livelihoods.
2. **Coastal Erosion:** Threatening **33.6% of the coastline**, as highlighted by recent government data.



About India's Coastal Region:

Extensive Coastline:

- India boasts a **7,500 km coastline**, stretching across **9 states and 4 Union Territories (UTs)**.
- Supports livelihoods, trade, and biodiversity.

Economic Hub:

- Contributes approximately **4% to India's GDP** through **fisheries, tourism, and shipping**.
- **Ports like Mumbai and Chennai** handle nearly **70% of India's trade**.

Biodiversity Hotspots:

- **Mangroves:** E.g., **Sundarbans**, the largest tidal halophytic mangrove forest in the world.
- **Coral Reefs:** E.g., **Gulf of Kutch**, housing some of India's most diverse marine life.
- **Endangered Species:** E.g., **Olive Ridley turtles** nesting along the Odisha coast.

Population Pressure:

- Over **250 million people** live within **50 km of the coast**, increasing **vulnerability to natural disasters**.

Climate Vulnerability:

- **Rising Sea Levels:** **3.2 mm/year**, contributing to **erosion and habitat loss**.
- **Frequent Cyclones:** Increasingly impacting coastal settlements.

Significance of Coastal Ecosystems:

1. Carbon Sequestration:

- **Mangroves** absorb and store **4x more carbon** than terrestrial forests, playing a crucial role in **climate change mitigation**.
- **Example:** **Bhitarkanika mangroves (Odisha)** serve as a major carbon sink.

2. Fisheries Support:

- **Coastal waters** contribute **70% of India's fish production**, crucial for livelihoods.
- **Example:** **16 million fishers** rely on coastal fishing for income.

3. Natural Barriers:

- **Coral Reefs and Sand Dunes:** Act as **buffers against coastal erosion and storm surges**.
- **Example:** **Gulf of Mannar's reefs** shield Tamil Nadu's shoreline from erosion.

4. Tourism Revenue:

Download Our Application



Freedom UPSC with **Dhananjay Gautam**



- Coastal tourism generates approximately **\$11 billion annually**, boosting local economies.
- **Examples: Goa and Puri beaches** attract millions of tourists each year.

5. Cultural Heritage:

- Coastal areas house **UNESCO World Heritage Sites** and age-old traditions.
- **Examples: Chola temples (Tamil Nadu) and Koli fishing communities (Maharashtra).**

Issues Plaguing Indian Coastal Systems:

1. Illegal Light Fishing:

- Despite bans, mechanized boats use **bright LED lights** to attract fish, particularly harming **juvenile populations**.
- **Examples: Maharashtra and Andhra Pradesh** are worst-hit, impacting traditional fishers.

2. Coastal Erosion:

- Rising sea levels and activities like **sand mining** contribute to erosion.
- **Example: Dakshina Kannada (Karnataka)** lost **48.4% of its coast in 30 years**.

3. Pollution:

- **Plastic waste and industrial effluents** are choking marine life and degrading water quality.
- **Example: Versova Beach (Mumbai)** required massive cleanups to restore its ecosystem.

4. Habitat Destruction:

- **Mangroves and wetlands** are cleared for infrastructure projects, compromising natural storm defenses.
- **Example: Mumbai lost 40% of its mangroves since 1987** due to urban expansion.

5. Weak Enforcement:

- Lack of stringent monitoring encourages **illegal construction and fishing**.
- **Example: Adani Port (Kerala)** faced **Coastal Regulation Zone (CRZ)** violations due to poor oversight.

Way Forward:

1. Strict Enforcement:

- **AI Drones** and increased **Coast Guard patrols** to detect illegal activities.
- **Example: Kerala's crackdown on LED-equipped boats** significantly reduced illegal light fishing.

2. Eco-Friendly Infrastructure:

- **Artificial reefs** and **sand replenishment** methods to curb erosion.
- **Example: Puducherry's submerged breakwaters** reduced erosion by **30%**.

3. Community Participation:

- Engaging **local fishers** in conservation initiatives ensures sustainable fishing practices.
- **Example: Tamil Nadu's fisher unions** actively patrol against illegal trawling.

4. Climate Adaptation:

- Relocating high-risk coastal settlements to safer areas.



- **Example: Odisha's cyclone-resistant homes** for vulnerable communities.

5. Research & Funding:

- Expanding studies on erosion and allocating budgets for **mangrove restoration**.
- **Example: NCCR's satellite mapping** helps track erosion hotspots accurately.

Conclusion:

India's coasts are integral to its **ecology, economy, and cultural heritage**, yet they face growing threats from **erosion, pollution, and overfishing**. A balanced approach involving **stricter enforcement, community involvement, and sustainable policies** is essential to **protect these ecosystems** for future generations.

