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Dr. GINDI'S IAS ACADEMY

DAILY CURRENT AFFAIRS

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Civils & Competitive Careers
TRANSFORMING ASPIRANTS INTO ACHIEVERS

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A/C CAMPUS

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DAILY CURRENT AFFAIRS

1. Shift in India's Oil Sourcing Strategy Amid U.S. Economic Pressure

Key Highlights & Summary

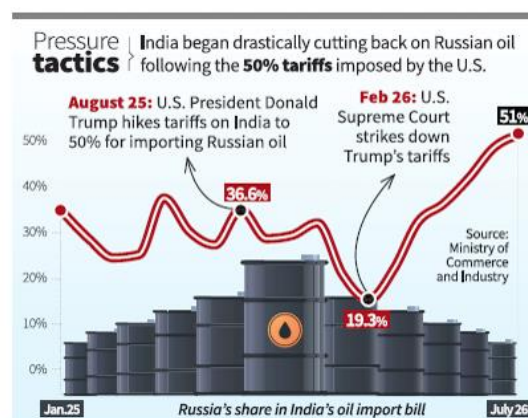
- **Impact of Sanctions:** Data over the last decade indicates that India's crude oil imports from nations targeted by U.S. sanctions (such as Venezuela, Iran, and Russia) fluctuate directly with U.S. trade pressure.
- **Fluctuation in Russian Sourcing:** Russia's share in India's oil imports was 30%–40% between July 2024 and July 2025, dropped to 19.3% in February 2026 after U.S. tariff hikes to 50%, and subsequently rebounded to 51% by July following favorable legal developments.
- **Reduction in Iranian and Venezuelan Imports:** Venezuelan crude share in India's imports fell from 6.7% in 2017–18 to zero by 2021–22, while Iranian oil imports dropped from nearly 10% to zero by 2020–21 under U.S. pressure.
- **India's Stance on Strategic Autonomy:** The Ministry of External Affairs reaffirmed that India's energy sourcing is guided strictly by "national interest" and market availability.
- **Warning on Bilateral Implications:** Official communications highlight that restrictive U.S. trade legislation poses adverse implications for global energy security and bilateral partnership stability.
- **Balancing Trade Protection:** India continuously evaluates trade measures to protect its economic interests while managing external geopolitical dependencies.

Essential Definitions

- **Secondary Sanctions:** Non-bilateral economic penalties imposed by a foreign nation on third-party countries or firms for engaging in trade with sanctioned entities.
- **Strategic Autonomy:** A foreign policy doctrine where a sovereign nation makes independent decisions regarding international relations and trade based on its own national security and economic priorities.
- **Energy Diplomacy:** The deliberate integration of foreign policy tools with national energy needs to secure uninterrupted energy supply chains at cost-effective rates.

Legal and Constitutional Framework

- **Article 73 of the Constitution:** Outlines the executive power of the Union, extending to foreign affairs, treaties, and international agreements executed under the Ministry of External Affairs and Ministry of Commerce and Industry.



- **Foreign Trade (Development and Regulation) Act, 1992:** Empowers the Central Government to formulate policies regulating import and export operations, enabling necessary strategic adjustments to international sanctions regimes.
- **Rule-Based International Order:** Highlighted under international law where unilateral secondary tariffs test principles of sovereign equality, international law compliance, and World Trade Organization (WTO) norms on free trade.

Conclusion

India's foreign policy dynamically balances pragmatism with strategic autonomy. While national interest dictates buying cost-effective energy from diverse global sources, practical market realities force periodic realignments during high-pressure international sanctions regimes. Ensuring energy security while mitigating economic friction with vital global strategic partners remains a central challenge in India's broader diplomatic framework.

UPSC Relevance

- **GS Paper-II (International Relations):** Indian Diaspora and Foreign Policy, Effect of Policies and Politics of Developed Nations on India's Interests, Strategic Autonomy, Bilateral Agreements (India-U.S., India-Russia).
- **GS Paper-III (Economy):** Energy Security, Import Dependencies, Global Supply Chain Resiliency, Balance of Payments, Foreign Trade Policy.

2. Proposed Stiff 'Red Entry' Rules in Revenue Records to Curb Stubble Burning

Key Highlights & Summary

- **Tightening Revenue Penalties:** The Central Government has drafted updated Rules under the CAQM framework to strengthen the "red entry" system in revenue records for farmers engaged in stubble burning.
- **Adverse Credit Impact:** A red entry in land records restricts farmers from securing institutional agricultural loans, mortgaging land, or accessing state subsidies.
- **Defined Validity Period:** Under the draft Rules, a red entry will remain valid for 15 months from the incident date, expiring automatically if no repeat violation occurs and environmental compensation is paid.
- **Extended Duration for Non-Compliance:** Non-payment of environmental compensation or repeat crop residue burning extends the red entry penalty by an additional 15 months.
- **Utilization of Compensation Funds:** Collected environmental compensation will be channeled into crop residue management, biomass utilization research, crop diversification, and machinery subsidies.

- **State Interventions and Opposition:** States like Haryana log violators on portals such as 'Meri Fasal Mera Byora' to bar scheme benefits for two years, while farmer unions and state leaders oppose penal FIRs, advocating instead for cash incentives.

Essential Definitions

- **Stubble Burning:** The intentional burning of crop residue, such as paddy straw, after harvesting to rapidly clear fields for the subsequent sowing season.
- **Red Entry:** A penal remark recorded in official land revenue records against a landowner's property for violating environmental or administrative regulations.
- **Environmental Compensation:** A financial penalty levied on polluters based on the 'Polluter Pays Principle' to restore environmental damage caused by unauthorized activities.



Legal and Constitutional Framework

- **Article 21 of the Constitution:** Guarantees the Right to Life, which the Supreme Court has expanded to include the right to a clean and healthy environment free from severe air pollution.
- **Commission for Air Quality Management in NCR and Adjoining Areas Act, 2021:** Empowers the CAQM to lay down regulations, enforce environmental compensation, and coordinate anti-pollution measures across NCR states.
- **Section 15 of Environment (Protection) Act, 1986:** Provides statutory backing for imposing penalties and enforcing compliance against activities causing environmental degradation.

Conclusion

While stringent deterrence through red entries aims to mitigate winter air pollution in the Delhi-NCR region, administrative penalties alone face resistance from farming communities. Balancing penal enforcement with incentive-based approaches—such as financial compensation for stubble handling, viable machinery access, and early removal of red entries for adopting sustainable farming—is essential for achieving long-term environmental compliance without compromising agricultural livelihoods.

UPSC Relevance

- **GS Paper-II (Governance & Policies):** Centre-State Coordination, Government Policies and Interventions for Sectoral Development, Administrative Mechanisms in Environmental Governance.
- **GS Paper-III (Environment & Agriculture):** Environmental Pollution and Degradation (Air Quality Index), Crop Residue Management, Sustainable Agricultural Practices, Agricultural Credit and Subsidies.

3. I&B Ministry Notifies New Film Certification Guidelines for CBFC

Key Highlights & Summary

- **Updated Certification Rules:** The Ministry of Information and Broadcasting (I&B) notified new film certification guidelines for the Central Board of Film Certification (CBFC), retaining the core framework of the 1991 version while adding two key provisions.
- **Mandatory Anti-Drug Disclaimer:** Films depicting the consumption, trafficking, or use of narcotic drugs or psychotropic substances must display the statutory warning: "Illicit Narcotics Destroy Health and Guarantees Imprisonment, Say No to Drugs".
- **New Age-Marker Alignment:** The guidelines operationalize age-based sub-categories—UA 7+, UA 13+, and UA 16+—as specified under the Cinematograph (Certification) Rules, 2024, to aid parental guidance.
- **Restrictions on Anti-Social Content:** CBFC must ensure scenes do not glorify anti-social activities, violence, drinking, or depict criminal operational methods likely to incite offences.
- **Protection of Vulnerable Groups:** Strict curbs are mandated against depicting children as victims, perpetrators, or forced witnesses to violence and abuse, alongside prohibiting ridicule of persons with disabilities or cruelty to animals.
- **Industry Awareness Drive:** CBFC Chairperson Shashi Shekhar Vempati urged filmmakers and trade associations to thoroughly review the revised framework prior to submitting content for certification.

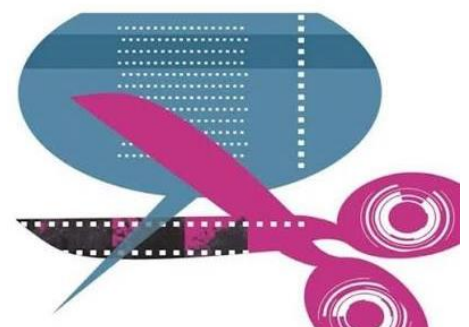
Essential Definitions

- **Film Certification:** The regulatory process of reviewing cinematic content and categorizing it based on age-appropriateness and societal standards before public exhibition.
- **UA Category (Unrestricted Public Exhibition with Parental Guidance):** A classification requiring caution from parents or guardians regarding whether children below a specified age (7, 13, or 16 years) should view the film.
- **Psychotropic Substances:** Natural or synthetic drugs that alter mental processes, emotional states, or behavior, subjected to strict legal regulation under Indian law.

Legal and Constitutional Framework

- **Article 19(1)(a) & 19(2) of the Constitution:** Protects freedom of speech and expression, subject to reasonable restrictions in the interests of public order, decency, morality, and sovereignty.
- **Cinematograph Act, 1952:** Establishes the statutory framework for regulating public exhibition of films and empowers the CBFC to grant, refuse, or modify film certifications.
- **Cinematograph (Certification) Rules, 2024:** Updates operational standards and age classification metrics to align film regulation with modern viewing demographics and international best practices.

I&B Ministry notifies new film certification guidelines for CBFC



Conclusion

The newly notified guidelines strike a balance between creative freedom and responsible content dissemination. By introducing targeted anti-drug disclaimers and age-specific categories, the Ministry enhances parental discretion while safeguarding public health, child rights, and social harmony against harmful media depictions.

UPSC Relevance

- **GS Paper-II (Polity & Governance):** Regulatory Bodies (CBFC), Statutory Provisions under the Cinematograph Act, Fundamental Rights vs Reasonable Restrictions (Article 19), Government Policies on Public Health and Child Protection.
- **GS Paper-I (Indian Society):** Impact of Mass Media on Social Values, Protection of Vulnerable Groups (Children, Persons with Disabilities), Public Awareness Against Substance Abuse.

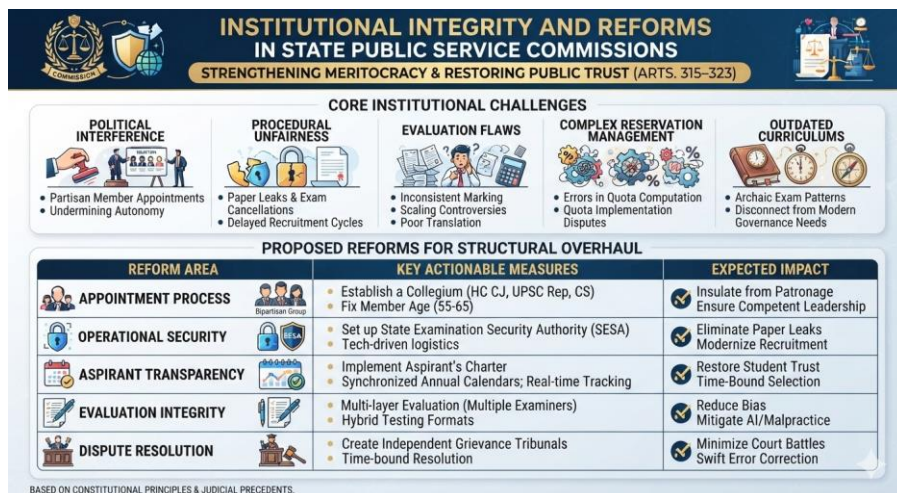
4. Institutional Integrity and Reforms in State Public Service Commissions

Key Highlights & Summary

- **Suspension of KPSC Chairman:** The Chairman of the Karnataka Public Service Commission (KPSC), Shivashankarappa S Sahukar, was suspended by the Governor following CID investigations into severe corruption and nepotism allegations.
- **Allegations of Nepotism and Fraud:** Investigations revealed that the Chairman's daughter secured a government post under an OBC reservation category by allegedly submitting a fake income certificate, claiming an annual family income of Rs 40,000 despite her father earning a monthly constitutional salary exceeding Rs 3.60 lakh.
- **Paper Leak and Selection Scams:** A second major probe involves the leakage of examination papers to candidates for veterinary officer posts through middlemen, with reports of selected candidates being coached at resorts prior to tests.
- **Judicial Observations:** The High Court remarked that such systematic recruitment irregularities erosion-wise assault the constitutional mandate governing public employment and destroy meritocracy.
- **Third Party Leaks and OMR Manipulation:** Further FIRs allege unauthorized sharing of confidential candidate data and offers to alter OMR answer sheets in exchange for large monetary sums.
- **Demands for Institutional Overhaul:** Political figures and civil service aspirants have called for independent central agency probes (CBI) and structural reforms to overhaul the recruitment framework.

Essential Definitions

- **State Public Service Commission (SPSC):** A constitutional body established at the state level responsible for conducting examinations and recommending candidates for civil service appointments.
- **Nepotism:** The practice among those with power or influence of favoring relatives or friends, especially by giving them jobs or unfair advantages in public selection processes.
- **Constitutional Privilege and Immunity:** Protections granted under Article 317 to members and chairpersons of Public Service Commissions, ensuring they can only be removed by the President following a Supreme Court inquiry, though suspension can be executed by the Governor during proceedings.



Legal and Constitutional Framework

- **Article 315 to 323 of the Constitution:** Outlines the composition, appointment, tenure, functions, and independence of Public Service Commissions.
- **Article 317 of the Constitution:** Regulates the procedure for the removal and suspension of a Chairman or member of a Public Service Commission on grounds of misbehavior or insolvency.
- **Article 16 of the Constitution:** Guarantees equality of opportunity for all citizens in matters relating to employment or appointment to any office under the State.

Conclusion

Integrity within Public Service Commissions is paramount to preserving public trust and safeguarding the constitutional guarantee of equal opportunity in public employment. Systemic leakages, fraudulent reservation claims, and corruption in recruitment undermine merit-based governance. Swift punitive action, enhanced digital transparency in examination protocols, and strict adherence to constitutional removal mechanisms under Article 317 are imperative to restore credibility to state recruitment bodies.

UPSC Relevance

- **GS Paper-II (Polity & Governance):** Constitutional Bodies (SPSC/UPSC), Appointment and Removal Procedures, Transparency and Accountability in Governance, Civil Services Role in Democracy.
- **GS Paper-IV (Ethics & Integrity):** Public Service Values, Corruption in Civil Services, Probity in Governance, Ethical Dilemmas and Conflicts of Interest in Administrative Functioning.

5. Anthropogenic Noise Pollution alters Himalayan Monal Bioacoustics

Key Highlights & Summary

- **Vocal Behavioral Adaptation:** A bioacoustic study by Hemvati Nandan Bahuguna Garhwal University (HNBGU) revealed that the Himalayan Monal alters its call frequency and amplitude in response to elevated human noise levels.
- **Comparative Site Findings:** Monals in Chopta Valley—an area marked by heavy pilgrimage traffic and roads—emitted significantly higher-frequency calls compared to those in the undisturbed Madmaheshwar Valley.
- **Disruption of Mating Mechanisms:** Increased vocal pitch and volume suggest an adaptive drive to prevent acoustic masking, though elevated noise interference threatens long-range male-female mating calls and communication.
- **Species Distribution & Status:** The Himalayan Monal (*Lophophorus impejanus*) is the state bird of Uttarakhand, distributed across high-altitude montane zones in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, and Sikkim.
- **Ecological Threats:** While classified as "Least Concern" on the IUCN Red List, escalating tourist footfall, road infrastructure expansion, and vehicular noise disturb fragile subalpine habitats.
- **Sustainable Tourism Management:** Researchers emphasize eco-sensitive landscape management, vehicle speed controls, and noise abatement over prohibiting regional tourism entirely.

How human-made noise is changing the call of an eye-catching Himalayan bird



Essential Definitions

- **Bioacoustics:** A cross-disciplinary science combining biology and acoustics that investigates sound production, dispersion, and reception in biological organisms.
- **Acoustic Masking:** A phenomenon where background anthropogenic noise overlaps with animal vocalizations, reducing the distance over which acoustic signals can be perceived by conspecifics.
- **Passive Acoustic Monitoring (PAM):** A non-invasive ecological sampling method utilizing stationary audio recorders to continuously monitor wildlife vocalizations and soundscapes.

Legal and Constitutional Framework

- **Wildlife (Protection) Act, 1972:** The Himalayan Monal is listed under Schedule I, receiving the highest level of legal protection against hunting, trapping, and trade in India.
- **Noise Pollution (Regulation and Control) Rules, 2000:** Enacted under the Environment (Protection) Act, 1986, setting permissible decibel standards and silence zone norms near sensitive ecological regions.
- **Article 48A & Article 51A(g) of the Constitution:** Mandates the State to protect and improve the environment, while imposing a Fundamental Duty on citizens to safeguard wildlife and show compassion for living creatures.

Conclusion

The study underscores the insidious impacts of sensory environmental pollution on high-altitude avian fauna. Unregulated tourism infrastructure in sensitive Himalayan ecosystems creates acoustic barriers that jeopardize wildlife breeding and social dynamics. Reconciling ecotourism growth with strict noise regulation and eco-sensitive zoning remains imperative for conserving montane biodiversity.

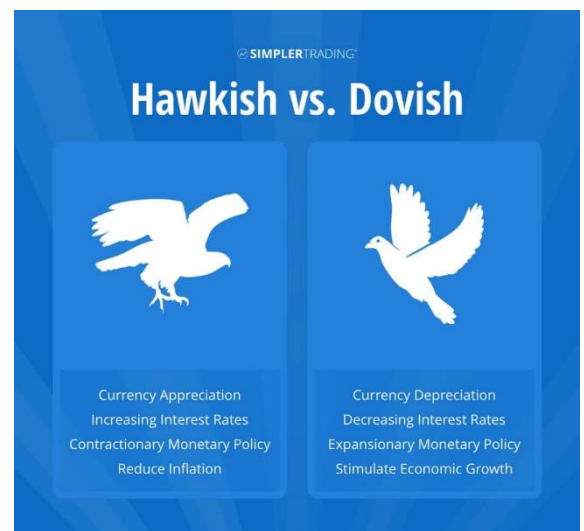
UPSC Relevance

- **GS Paper-III (Environment & Ecology):** Biodiversity Conservation, Wildlife Protection Act 1972, Environmental Impact Assessment (EIA), Environmental Pollution and Degradation (Noise Pollution).
- **GS Paper-I (Geography):** Montane Ecosystems, Himalayan Flora and Fauna Distribution, Impact of Unplanned Tourism on Fragile Habitats.

6. Hawkish or Dovish? The Varying Interpretations of US Fed Rate Hike

Key Highlights & Summary

- **US Fed Rate Hike:** The US Federal Reserve raised the Federal Funds Rate (FFR) by 25 basis points to a range of 3.75% to 4%, marking a decisive monetary tightening move.
- **Hawkish Stance on Inflation:** Driven by concerns over persistent inflation exceeding the 2% target, the decision increases credit costs to cool aggregate demand and stabilize prices.
- **Dual Mandate Priority:** Unlike central banks with single-target frameworks, the US Fed operates under a dual mandate balancing price stability (2% target) and maximum employment.
- **Summary of Economic Projections (SEP):** Federal Open Market Committee (FOMC) projections indicate revised GDP growth, lower unemployment forecasts, and lingering inflation pressures extending through 2028.
- **Dovish Counter-Arguments:** Market analysts argue the modest 25-basis-point hike is relatively dovish, given expectations for further tightening amidst strong macroeconomic fundamentals.
- **Political Dynamics and External Pressures:** The rate adjustment sparked political friction over interest rate levels, highlighting the ongoing tension between executive growth priorities and central bank independence.



Essential Definitions

- **Federal Funds Rate (FFR):** The target interest rate set by the US Fed at which commercial banks borrow and lend their excess reserves to one another overnight.
- **Hawkish Policy:** A monetary stance prioritizing inflation control and price stability, typically executed by raising interest rates to curb economic overheating.

- **Dovish Policy:** A monetary approach favoring economic expansion and employment creation, usually implemented by maintaining or lowering interest rates.

Legal and Constitutional Framework

- **Reserve Bank of India Act, 1934:** Governs monetary policy framework in India, establishing the Flexible Inflation Targeting (FIT) regime under Section 45ZB via the Monetary Policy Committee (MPC).
- **Central Bank Independence:** Under international monetary jurisprudence and Article 246 (Union List Item 38), central banks operate with operational autonomy to insulate interest rate decisions from political cycles.
- **External Commercial Borrowings (ECB) Framework:** Regulated under the Foreign Exchange Management Act (FEMA), 1999, which dictates exposure limits and borrowing costs for Indian firms affected by global rate changes.

Conclusion

The US Federal Reserve's monetary adjustments reflect a delicate balancing act between curbing stubborn inflation and sustaining economic growth. For emerging economies like India, US interest rate changes trigger capital flow realignments, currency fluctuations, and imported inflation concerns. Maintaining central bank independence and proactive domestic policy adjustments remain fundamental to buffering macro-financial volatility.

UPSC Relevance

- **GS Paper-III (Indian Economy):** Monetary Policy Committee (MPC), Inflation Management, Capital Outflows, Exchange Rate Volatility, Impact of External Financial Shocks.
- **GS Paper-II (Governance):** Regulatory Independence of Financial Institutions, Comparative Analysis of Central Bank Mandates (RBI vs US Fed).

7. Audit Uncovers Manipulation in Odisha Welfare Records for Marriage Assistance

Key Highlights & Summary

- **Audit Detection of Welfare Fraud:** A draft CAG audit report on the Odisha Building and Other Construction Workers' Welfare Board exposed nearly 2,000 cases of manipulated marriage records used to fraudulently claim financial aid.
- **Anomalies in Marriage Registration Dates:** Analysis revealed 676 marriage certificates with registration dates logged prior to the actual date of marriage, violating basic registration protocols.
- **System Design and Portal Flaws:** Following the launch of the Nirman Shramik Portal, 1,257 fraudulent cases led to illegal disbursements totaling Rs 6.29 crore due to weak digital validation checks.
- **Procedural Irregularities in Register Maintenance:** Audit inspections found certificate registers maintained with blank pages, missing recipient signatures, and missing certificate details at local Block Development Offices.

- **Scheme Provisions and Board Amassed Corpus:** The board provides Rs 50,000 assistance for the marriage of registered female beneficiaries or two unmarried daughters above 18 years, utilizing a corpus exceeding Rs 4,000 crore.
- **Ghost Beneficiaries and Death Claims:** The same audit uncovered over 2,400 construction workers declared dead to collect death assistance, while their profiles simultaneously drew subsidized foodgrains under food security schemes.

Essential Definitions

- **Social Audit:** An official evaluation of a public program's execution and fund utilization, measuring social impact alongside compliance with regulatory rules.
- **Building and Other Construction Workers (BOCW) Cess:** A statutory levy collected on construction project costs to finance welfare benefits for unorganized construction laborers.
- **Direct Benefit Transfer (DBT):** An administrative mechanism designed to transfer welfare subsidies directly into verified bank accounts of targeted beneficiaries to minimize leakages.

Legal and Constitutional Framework

- **Article 148 to 151 of the Constitution:** Details the statutory role, duties, and powers of the Comptroller and Auditor General (CAG) of India in auditing public expenditure and welfare funds.
- **Building and Other Construction Workers (RECS) Act, 1996:** Mandates the establishment of State Welfare Boards and the creation of welfare funds for unorganized construction workers.
- **Orissa Hindu Marriages and Registration Rules, 1960:** Prescribes compulsory application within 30 days of solemnization and sets procedural standards for registering marriages.

Conclusion

The systemic leakages exposed in the implementation of construction welfare funds underscore the vulnerability of welfare delivery frameworks to administrative loopholes and inadequate portal validation logic. Strengthening digital authentication mechanisms, enforcing strict register audits, and establishing mandatory cross-verification between statutory databases are vital to ensure public funds reach genuine unorganized workers.

UPSC Relevance

- **GS Paper-II (Governance):** Role of CAG in Public Accountability, Issues Related to Welfare Schemes for Vulnerable Sections, Transparency & Accountability in Governance, E-Governance Applications and Limitations.
- **GS Paper-III (Economy & Labour):** Social Security for Unorganized Sector Workers, Fund Management under BOCW Act, Public Expenditure Management and Revenue Leakages.

8. Institutional Foundations and Evolution of India's Homegrown Deep-Tech Innovation Ecosystem

Key Highlights & Summary

- **Emergence of Innovation Architecture:** India is transitioning from a tech-importer to a tech-developer through a tripartite convergence of public research institutions, corporate R&D, and deep-tech startups.
- **Surge in Patent Filings:** Domestic patent applications rose by 30.2% from over 1,10,000 in 2024–25 to more than 1,43,000 in 2025–26, with domestic applicants accounting for nearly 70% of total filings.
- **Structural R&D Shortfalls:** Despite filing growth, low grant rates, high abandonment, and low R&D spending (under 1% of GDP compared to China's 2.4% and the U.S.'s 3.5%) highlight an unfulfilled commercialization gap.
- **Critical Technology Breakthroughs:** DRDO mastered Gallium Nitride (GaN) semiconductor technology for defense and 5G/6G use, making India one of seven nations globally with this capability after domestic transfer via IISc spin-offs.
- **Standard-Setting in Telecommunications:** Through initiatives like the Bharat 6G Alliance and Jio Platforms, India is shifting from a standard-implementer to a standard-setter by contributing heavily to international 3GPP telecom standards.
- **Deep-Tech and Health Innovation:** Venture-backed startups are driving frontier advances, such as ImmunoACT's NexCAR19 CAR-T cell therapy delivering cancer treatment at 1/10th of global costs, alongside private space launch developments by Skyroot and Agnikul.



Essential Definitions

- **Gallium Nitride (GaN) Semiconductors:** Wide-bandgap semiconductor materials essential for high-frequency, high-power applications including military radars, satellite communications, and 5G/6G networks.
- **Deep Tech:** Cutting-edge technologies based on substantial scientific or engineering innovations that require long-term R&D cycles and significant capital investment.
- **Standard-Essential Patents (SEPs):** Patents that cover technologies required to comply with specific technical industry standards established by global standards-setting organizations.

Legal and Constitutional Framework

- **Patents Act, 1970:** Provides the statutory framework for granting, regulating, and enforcing intellectual property rights and compulsory licensing parameters in India.
- **Article 51A(h) of the Constitution:** Imposes a Fundamental Duty on every citizen to develop the scientific temper, humanism, and the spirit of inquiry and reform.
- **National Deep Tech Startup Policy (NDTSP):** Formulated to streamline IP clearance, simplify public procurement terms, and channel institutional patient capital into deep-tech research ecosystems.

Conclusion India's innovation landscape is shifting from back-office IT delivery toward intellectual property creation across strategic domains like defense electronics, space, and biopharmaceuticals. Addressing structural bottlenecks—such as bridging the translational gap

from patent grant to commercial deployment, increasing national R&D expenditure above 1% of GDP, and strengthening patent office examination capacity—remains crucial for establishing a resilient, self-reliant tech economy.

UPSC Relevance

- **GS Paper-III (Science & Technology):** Indigenization of Technology, Developing New Technologies, Intellectual Property Rights (IPR), R&D Expenditure, Space & Defense Tech.
- **GS Paper-II (Governance & Policy):** Government Policies and Interventions for Deep-Tech Startups, Public-Private Partnerships in Scientific Research, Strategic Autonomy in Critical Technologies.

9. The Graham Bill and Imposition of Unilateral Secondary Sanctions

Key Highlights & Summary

- **Targeting Third-Party Trade:** The proposed Graham Bill in the U.S. seeks to penalize third nations, including India and China, for purchasing Russian crude oil, reflecting an assertion of extra-territorial economic jurisdiction.
- **Selective Application of Norms:** The legislation exemplifies selective adherence to international morality by penalizing non-aligned nations while preserving specific exemptions for U.S. domestic economic interests, such as low-enriched uranium imports.
- **Externalizing Accountability:** By projecting responsibility for ongoing international conflicts onto developing consumer nations, the policy seeks to deflect from domestic political or legislative checks on executive authority.
- **Erosion of Multilateral Rules:** The reliance on secondary sanctions disrupts global energy market stability and challenges multilateral trade principles without sovereign consensus or international law backing.
- **Limitations of Sanctions Coercion:** Modern geopolitical dynamics demonstrate that sovereign major economies cannot be coerced into abandoning fundamental energy security priorities through unilateral secondary trade barriers.
- **India's Policy Stand:** India maintains that national energy procurement remains grounded in consumer protection and national interest, emphasizing that economic stability for 1.4 billion citizens cannot be subjected to external legislation.

Essential Definitions

- **Secondary Sanctions:** Economic penalties imposed by one nation to penalize third-party entities or sovereign countries for engaging in lawful trade with a primary target country.
- **Imperial Privilege / Extra-territoriality:** The practice where a nation projects its internal domestic statutes beyond its borders to govern the external commercial and diplomatic activities of sovereign foreign states.
- **Strategic Autonomy:** A foreign policy doctrine asserting that a nation formulates its decisions based independently on national interest, sovereign equality, and global stability without succumbing to external pressure.

Legal and Constitutional Framework

- **Article 51 of the Constitution:** Directs the State to promote international peace and security, maintain just and honorable relations between nations, and foster respect for international law and treaty obligations.
- **UN Charter Article 2(1):** Establishes the foundational principle of sovereign equality among all United Nations member states, rendering unilateral secondary sanctions legally problematic under international public law.
- **Foreign Trade (Development and Regulation) Act, 1992:** Authorizes the Executive to formulate and regulate India's foreign trade policies to insulate national trade interest from unilateral foreign trade distortions.

Conclusion

The reliance on coercive secondary economic sanctions highlights a growing friction between unilateral trade enforcement and a multipolar world order based on sovereign equality. For India, protecting energy security while navigating bilateral partnerships requires unwavering commitment to strategic autonomy. Upholding international law, multilateral governance, and independent foreign policy decision-making remains vital for safeguarding national developmental priorities against extra-territorial legislative measures.

UPSC Relevance

- **GS Paper-II (International Relations):** Effect of Policies and Politics of Developed Nations on India's Interests, Secondary Sanctions, Strategic Autonomy, India-US Bilateral Relations, Principle of Sovereign Equality under UN Charter.
- **GS Paper-III (Economy):** Energy Security, Foreign Trade Regulation, Impact of Global Geopolitical Realignment on Domestic Energy Markets and Inflation.

10. Deep-Sea Exploration Versus Exploitation: India's Ecological Governance Frontier

Key Highlights & Summary

- **Expanding Deep-Sea Footprint:** India holds three International Seabed Authority (ISA) contracts covering ~95,000 sq km across the Central Indian Ocean Basin, Central Indian Ridge, and Carlsberg Ridge, identifying 366 million tonnes of polymetallic nodules.
- **Indigenous Technological Advancements:** Under the Deep Ocean Mission, India has developed underwater robotics, tested mining systems at 5,270 metres depth via NIOT, and built the MATSYA-6000 human submersible.
- **Unexplored Biodiversity:** Extensive deep-sea surveys across 19 seamounts identified ~1,300 marine organisms, including nearly 23 species new to science, underscoring fragile high-seas ecosystems.
- **Precautionary Ecological Principle:** The article argues that technological ability to mine seabed minerals (nickel, copper, cobalt, manganese) should not translate into automatic ecological permission to exploit.
- **Focus on Circular Economy:** Priorities must shift toward resource efficiency, recycling, material substitution, and reduced consumption—aligning with Mission LiFE—before resorting to seabed mining.

- **Leadership in Ocean Governance:** India has the opportunity to lead global deep-sea ecological governance by prioritizing marine preservation over commercial seabed exploitation.

Essential Definitions

- **Polymetallic Nodules:** Rock mineral accretions formed on the abyssal ocean floor containing high concentrations of nickel, copper, cobalt, iron, and manganese.
- **Abyssal Zone:** The layer of the ocean at depths between 3,000 and 6,000 metres below the surface, characterized by perpetual darkness, extreme pressure, and unique biological communities.
- **Mission LiFE (Lifestyle for Environment):** A global mass movement led by India encouraging individual and collective actions to protect and preserve the environment through mindful utilization.

Legal and Constitutional Framework

- **UNCLOS (UN Convention on the Law of the Sea), 1982:** Designates international seabed areas beyond national jurisdiction as the "Common Heritage of Mankind," governed by the International Seabed Authority (ISA).
- **Article 48A & Article 51A(g) of the Constitution:** Directs the State to protect and improve the environment while establishing a Fundamental Duty for every citizen to protect forests, lakes, rivers, and wildlife.
- **Environment (Protection) Act, 1986:** Provides statutory authority to formulate coastal and marine environmental regulation frameworks to prevent irreversible ecological damage.

Conclusion India stands at a critical juncture where deep-ocean technological maturity must be balanced with ecological stewardship. Commercial seabed mining risks irreversible harm to poorly understood marine ecosystems. By embedding precautionary principles, prioritizing circular resource management, and utilizing the Deep Ocean Mission for scientific conservation, India can champion a global model of sustainable ocean governance.

UPSC Relevance

- **GS Paper-III (Environment & Ecology):** Conservation, Environmental Impact Assessment, Marine Biodiversity Protection, Deep Ocean Mission, Sustainable Development Goals (SDG 14: Life Below Water).
- **GS Paper-III (Science & Technology):** Deep-Sea Mining Technologies, MATSYA-6000 Submersible, Resource Extraction vs Ecological Preservation.



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